Base Load Power Hub (BLPH)

EMCS_IO_List

Document Number: 1724000594-IN-LIS-00005
Supplier Document Number: E366772C00-EMCS_IO

Document Class: 2

02	11/06/2025	ACCEPTED FOR CONSTRUCTION (AFC)	CF	AB	SC
01	3/02/2025	ISSUE FOR REVIEW (IFR)	CF	AB	SC
00	24/09/2024	ISSUE FOR REVIEW (IFR)	CF	AB	SC
Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ISSUE FOR REVIEW (IFR)
02	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

No.	Description
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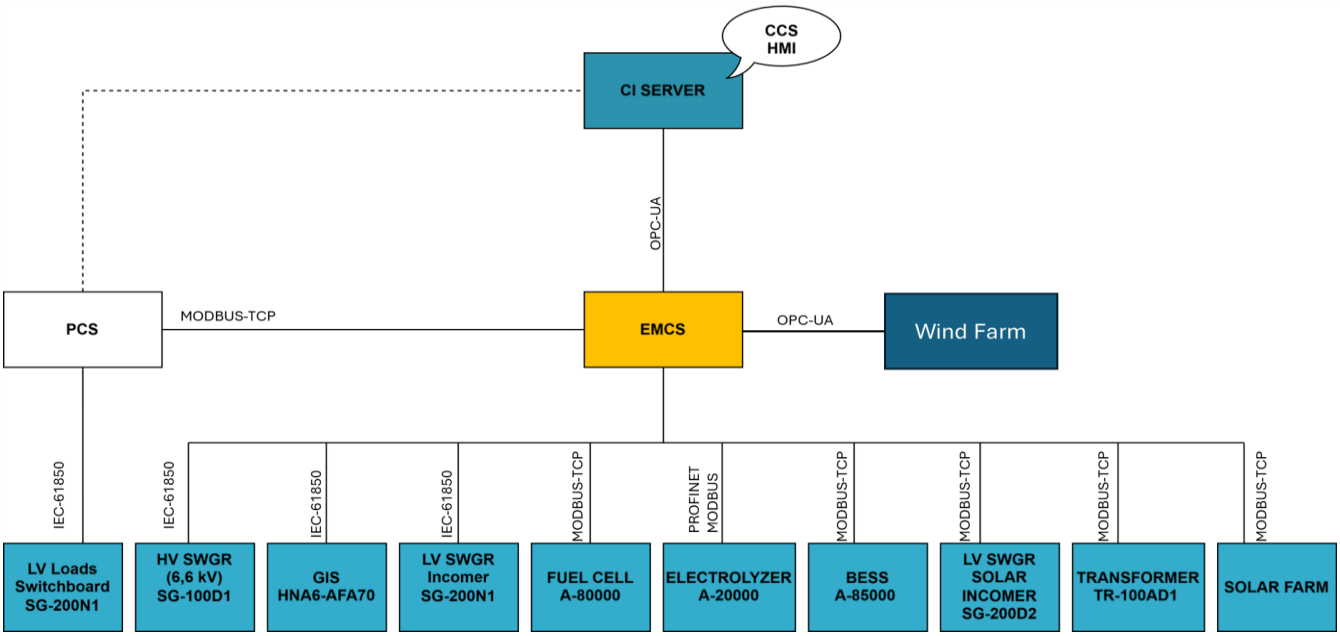
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Notes

This document describes the list of signals exposed by the EMCS.
The EMCS, beside the role of central controller, acts as a communication gateway toward the devices relevant to the energy management of the BLPH: BESS, SolarFarm, FuelCell, Electrolizer, WindFarm and electrical equipment like GIS, SG-100D1, SG-200D2, SG-200N1, TransformerAVR.

The EMCS provides two communication interfaces as Server:
- **OPC-UA**: to provide real-time data to the CSS SCADA related to both field devices and internal measures/statuses. Moreover, it provides an interface to set parameters of the EMCS itself.
- **MODBUS-TCP**: to exchange measures, statuses and commands with the PCS.

The picture below shows all the connections and the used protocols.



Reference Documents:

SG-100D1	1723002197-EL-LIS-00041.pdf
SG-200D2	1723002197-EL-LIS-00043.pdf
SG-200N1	1723002197-EL-LIS-00042.pdf
Transformer TR-100D1	BAL_8249889_001_00_1_EN.pdf
GIS	1723001595-EL-LIS-00011.pdf
BESS	23A2007_240628_PROFINET_Register BESS_V1_0_0_3.xlsx
SolarFarm	HKN1-02-REG-341 Manual for controlling the solar farm via the client connector REV A.pdf
FuelCell	Crosswind Modbus Table - Main PLC - External Cut v3_comTest_Denmark.xlsx
Electrolizer	C63-AUT-002_03_Communication table

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.Status1_StatusWord_Warning	Logic.Application	BESS_GVL		Status1_StatusWord_Warning	BOOL		1		Status1_StatusWord_Warning		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_Error	Logic.Application	BESS_GVL		Status1_StatusWord_Error	BOOL		1		Status1_StatusWord_Error		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_PhreHeat	Logic.Application	BESS_GVL		Status1_StatusWord_PhreHeat	BOOL		1		Status1_StatusWord_PhreHeat		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_StandBy	Logic.Application	BESS_GVL		Status1_StatusWord_StandBy	BOOL		1		Status1_StatusWord_StandBy		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_PreCharge	Logic.Application	BESS_GVL		Status1_StatusWord_PreCharge	BOOL		1		Status1_StatusWord_PreCharge		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_Readv	Logic.Application	BESS_GVL		Status1_StatusWord_Readv	BOOL		1		Status1_StatusWord_Readv		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_ActiveInOperation	Logic.Application	BESS_GVL		Status1_StatusWord_ActiveInOperation	BOOL		1		Status1_StatusWord_ActiveInOperation		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_SafetyRelaisTriggered	Logic.Application	BESS_GVL		Status1_StatusWord_SafetyRelaisTriggered	BOOL		1		Status1_StatusWord_SafetyRelaisTriggered		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_SmokeDetectorTriggered	Logic.Application	BESS_GVL		Status1_StatusWord_SmokeDetectorTriggered	BOOL		1		Status1_StatusWord_SmokeDetectorTriggered		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_MainSwitchOn	Logic.Application	BESS_GVL		Status1_StatusWord_MainSwitchOn	BOOL		1		Status1_StatusWord_MainSwitchOn		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_H2_detected_BESS_1_1_4	Logic.Application	BESS_GVL		Status1_StatusWord_H2_detected_BESS_1_1_4	BOOL		1		Hydrogen detector inside the container reached error level		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_H2_detected_BESS_1_5_8	Logic.Application	BESS_GVL		Status1_StatusWord_H2_detected_BESS_1_5_8	BOOL		1		Hydrogen detector inside the container reached error level		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_H2_detected_BESS_1_9_11	Logic.Application	BESS_GVL		Status1_StatusWord_H2_detected_BESS_1_9_11	BOOL		1		Hydrogen detector inside the container reached error level		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_H2_detected_BESS_2_1_4	Logic.Application	BESS_GVL		Status1_StatusWord_H2_detected_BESS_2_1_4	BOOL		1		Hydrogen detector inside the container reached error level		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_H2_detected_BESS_2_5_8	Logic.Application	BESS_GVL		Status1_StatusWord_H2_detected_BESS_2_5_8	BOOL		1		Hydrogen detector inside the container reached error level		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_StatusWord_H2_detected_BESS_2_9_11	Logic.Application	BESS_GVL		Status1_StatusWord_H2_detected_BESS_2_9_11	BOOL		1		Hydrogen detector inside the container reached error level		R	MODBUS	0 (0-16 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_HeartBeat	Logic.Application	BESS_GVL		Status1_HeartBeat	INT16		1		Status1_HeartBeat		R	MODBUS	1	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status1_Control_Cab_Temp	Logic.Application	BESS_GVL		Status1_Control_Cab_Temp	INT16	°c	1		Status1_Control_Cab_Temp		R	MODBUS	2	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status1_Power_Cab_Temp	Logic.Application	BESS_GVL		Status1_Power_Cab_Temp	INT16	°c	1		Status1_Power_Cab_Temp		R	MODBUS	3	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status1_Cab_Temp	Logic.Application	BESS_GVL		Status1_Cab_Temp	INT16	°c	1		Status1_Cab_Temp		R	MODBUS	3	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status1_Cooling_Water_Temp	Logic.Application	BESS_GVL		Status1_Cooling_Water_Temp	INT16	°c	1		Status1_Cooling_Water_Temp		R	MODBUS	4	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status1_Outside_Temp	Logic.Application	BESS_GVL		Status1_Outside_Temp	INT16		1		Status1_Outside_Temp		R	MODBUS	4		INT16
Logic.Application.BESS_GVL.Status1_Room_Temp	Logic.Application	BESS_GVL		Status1_Room_Temp	INT16		1		Status1_Room_Temp		R	MODBUS	5		INT16
Logic.Application.BESS_GVL.Status1_Actual_Records	Logic.Application	BESS_GVL		Status1_Actual_Records	INT16		1		Status1_Actual_Records		R	MODBUS	7	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status1_Record	Logic.Application	BESS_GVL		Status1_Record	INT16		1		Status1_Record		R	MODBUS	8	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status1_Record_Error_Number	Logic.Application	BESS_GVL		Status1_Record_Error_Number	UINT32		1		Status1_Record_Error_Number		R	MODBUS	9 - 10	INPUT REGISTER	UDINT
Logic.Application.BESS_GVL.Status1_Record_Error_Level	Logic.Application	BESS_GVL		Status1_Record_Error_Level	INT16		1		Status1_Record_Error_Level		R	MODBUS	11	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status1_Record_TimeStamp_Date	Logic.Application	BESS_GVL		Status1_Record_TimeStamp_Date	DATE		1		Status1_Record_TimeStamp_Date		R	MODBUS	12 - 13	INPUT REGISTER	UDINT
Logic.Application.BESS_GVL.Status1_Record_TimeStamp_Time	Logic.Application	BESS_GVL		Status1_Record_TimeStamp_Time	TIME		1		Status1_Record_TimeStamp_Time		R	MODBUS	14 - 15	INPUT REGISTER	UDINT
Logic.Application.BESS_GVL.Status2_StatusWord	Logic.Application	BESS_GVL		Status2_StatusWord	UINT16		1		Status2_StatusWord		R	MODBUS	16	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status2_IGBT_1_Temp	Logic.Application	BESS_GVL		Status2_IGBT_1_Temp	INT16	°c	1		Status2_IGBT_1_Temp		R	MODBUS	17	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_Inductor_1_Temp	Logic.Application	BESS_GVL		Status2_Inductor_1_Temp	INT16	°c	1		Status2_Inductor_1_Temp		R	MODBUS	17	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_IGBT_2_Temp	Logic.Application	BESS_GVL		Status2_IGBT_2_Temp	INT16	°c	1		Status2_IGBT_2_Temp		R	MODBUS	18	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_Inductor_2_Temp	Logic.Application	BESS_GVL		Status2_Inductor_2_Temp	INT16	°c	1		Status2_Inductor_2_Temp		R	MODBUS	19	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_IGBT_3_Temp	Logic.Application	BESS_GVL		Status2_IGBT_3_Temp	INT16	°c	1		Status2_IGBT_3_Temp		R	MODBUS	20	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_Inductor_3_Temp	Logic.Application	BESS_GVL		Status2_Inductor_3_Temp	INT16	°c	1		Status2_Inductor_3_Temp		R	MODBUS	20	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_IGBT_4_Temp	Logic.Application	BESS_GVL		Status2_IGBT_4_Temp	INT16	°c	1		Status2_IGBT_4_Temp		R	MODBUS	21	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_Inductor_4_Temp	Logic.Application	BESS_GVL		Status2_Inductor_4_Temp	INT16	°c	1		Status2_Inductor_4_Temp		R	MODBUS	22	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_IGBT_5_Temp	Logic.Application	BESS_GVL		Status2_IGBT_5_Temp	INT16	°c	1		Status2_IGBT_5_Temp		R	MODBUS	23	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_Inductor_5_Temp	Logic.Application	BESS_GVL		Status2_Inductor_5_Temp	INT16	°c	1		Status2_Inductor_5_Temp		R	MODBUS	23	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Status2_Grid_Frequency	Logic.Application	BESS_GVL		Status2_Grid_Frequency	FLOAT	Hz	1		Status2_Grid_Frequency		R	MODBUS	25	INPUT REGISTER	UINT
Logic.Application.BESS_GVL.Status2_IGBT1_RMS_Voltage	Logic.Application	BESS_GVL		Status2_IGBT1_RMS_Voltage	FLOAT	V	1		Status2_IGBT1_RMS_Voltage		R	MODBUS	26	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status2_IGBT2_RMS_Voltage	Logic.Application	BESS_GVL		Status2_IGBT2_RMS_Voltage	FLOAT	V	1		Status2_IGBT2_RMS_Voltage		R	MODBUS	27	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status2_IGBT3_RMS_Voltage	Logic.Application	BESS_GVL		Status2_IGBT3_RMS_Voltage	FLOAT	V	1		Status2_IGBT3_RMS_Voltage		R	MODBUS	28	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status2_IGBT1_RMS_Current	Logic.Application	BESS_GVL		Status2_IGBT1_RMS_Current	FLOAT	V	1		Status2_IGBT1_RMS_Current		R	MODBUS	29	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status2_IGBT2_RMS_Current	Logic.Application	BESS_GVL		Status2_IGBT2_RMS_Current	FLOAT	V	1		Status2_IGBT2_RMS_Current		R	MODBUS	30	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status2_IGBT3_RMS_Current	Logic.Application	BESS_GVL		Status2_IGBT3_RMS_Current	FLOAT	V	1		Status2_IGBT3_RMS_Current		R	MODBUS	31	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Statuswprd	Logic.Application	BESS_GVL		Statusword	UINT16		1		Statusword		R	MODBUS	32 (0 - 1 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.Status3_StatusWord_Available	Logic.Application	BESS_GVL		Status3_StatusWord_Available	BOOL		1		Status3_StatusWord_Available		R	MODBUS	0		BOOL
Logic.Application.BESS_GVL.Status3_StatusWord_PRL_Active	Logic.Application	BESS_GVL		Status3_StatusWord_PRL_Active	BOOL		1		Status3_StatusWord_PRL_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.Status3_ActivePower	Logic.Application	BESS_GVL		Status3_ActivePower	FLOAT	kW	1		Status3_ActivePower		R	MODBUS	33	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_ReactivePower	Logic.Application	BESS_GVL		Status3_ReactivePower	FLOAT	KVAr	1		Status3_ReactivePower		R	MODBUS	34	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_SOC	Logic.Application	BESS_GVL		Status3_SOC	FLOAT	%	1		Status3_SOC		R	MODBUS	35	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_SOH	Logic.Application	BESS_GVL		Status3_SOH	FLOAT	%	1		Status3_SOH		R	MODBUS	36	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_Charge_Power_Max	Logic.Application	BESS_GVL		Status3_Charge_Power_Max	FLOAT	kW	1		Status3_Charge_Power_Max		R	MODBUS	37	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_Discharge_Power_Max	Logic.Application	BESS_GVL		Status3_Discharge_Power_Max	FLOAT	kW	1		Status3_Discharge_Power_Max		R	MODBUS	38	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_Charge_Enerav	Logic.Application	BESS_GVL		Status3_Charge_Enerav	FLOAT	kWh	1		Status3_Charge_Enerav		R	MODBUS	39	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_Discharge_Energy	Logic.Application	BESS_GVL		Status3_Discharge_Energy	FLOAT	kWh	1		Status3_Discharge_Energy		R	MODBUS	40	INPUT REGISTER	INT
Logic.Application.BESS_GVL.Status3_Convert_Operating_Mode	Logic.Application	BESS_GVL		Status3_Convert_Operating_Mode	INT16		1		Status3_Convert_Operating_Mode		R	MODBUS	42	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.StringStatus_Statusword	Logic.Application	BESS_GVL	StringStatus	Statusword	UINT16		1		Statusword		R	MODBUS	48 (0 - 9 Bit Reference)	INPUT REGISTER	WORD
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand	BOOL		1		Battery cabinet 1 and 2 on		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active	BOOL		1		Battery cabinet 1 and 2 on DCDC 1 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected	BOOL		1		Battery cabinet 1 and 2 on DCDC 1 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS	0	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected	BOOL		1		Battery cabinet 1 and 2 on DCDC 1 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error	BOOL		1		Battery cabinet 1 and 2 on DCDC 1 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error	BOOL		1		Battery cabinet 1 and 2 on DCDC 1 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1	BOOL		1		Battery cabinet 1 and 2 on		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2	BOOL		1		Battery cabinet 1 and 2 on		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1	BOOL		1		Battery cabinet 1 and 2 on		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2	BOOL		1		Battery cabinet 1 and 2 on		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1	Logic.Application	BESS_GVL		String_Current_1	FLOAT	A	1		Battery cabinet 1 and 2 on DCDC 1 - String_Current_1		R	MODBUS	49	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1	Logic.Application	BESS_GVL		String_Voltage_1	FLOAT	V	1		Battery cabinet 1 and 2 on DCDC 1 - String_Voltage_1		R	MODBUS	50	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1	FLOAT	V	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Voltage_Min_1		R	MODBUS	51	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1	FLOAT	V	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Voltage_Max_1		R	MODBUS	52	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1	FLOAT	°c	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Temp_Min_1		R	MODBUS	53	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1	FLOAT	°c	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Temp_Max_1		R	MODBUS	54	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1	Logic.Application	BESS_GVL		String_SOC_1	FLOAT	%	1		Battery cabinet 1 and 2 on DCDC 1 - String_SOC_1		R	MODBUS	55	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2	Logic.Application	BESS_GVL		String_Current_2	FLOAT	A	1		Battery cabinet 1 and 2 on DCDC 1 - String_Current_2		R	MODBUS	56	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2	Logic.Application	BESS_GVL		String_Voltage_2	FLOAT	V	1		Battery cabinet 1 and 2 on DCDC 1 - String_Voltage_2		R	MODBUS	57	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2	FLOAT	V	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Voltage_Min_2		R	MODBUS	58	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2	FLOAT	V	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Voltage_Max_2		R	MODBUS	59	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2	FLOAT	°c	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Temp_Min_2		R	MODBUS	60	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2	FLOAT	°c	1		Battery cabinet 1 and 2 on DCDC 1 - String_Cell_Temp_Max_2		R	MODBUS	61	INPUT REGISTER	INT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.String_SOC_2	Logic.Application	BESS_GVL		String_SOC_2	FLOAT	%	1		Battery cabinet 1 and 2 on DCDC 1 - String_SOC_2		R	MODBUS	62	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp	Logic.Application	BESS_GVL		String_IGBT_1_Temp	INT16	°c	1		Battery cabinet 1 and 2 on DCDC 1 - String_IGBT_1_Temp		R	MODBUS	63	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp	Logic.Application	BESS_GVL		String_Inductor_1_Temp	INT16	°c	1		Battery cabinet 1 and 2 on DCDC 1 - String_Inductor_1_Temp		R	MODBUS	63	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC1_BK3	BOOL		1		Battery cabinet 3 on DCDC 1 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_Current_1_DCDC1_BK3	FLOAT	A	1		Battery cabinet 3 on DCDC 1 - String_Current_1		R	MODBUS	65	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_Voltage_1_DCDC1_BK3	FLOAT	V	1		Battery cabinet 3 on DCDC 1 - String_Voltage_1		R	MODBUS	66	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC1_BK3	FLOAT	V	1		Battery cabinet 3 on DCDC 1 - String_Cell_Voltage_Min_1		R	MODBUS	67	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC1_BK3	FLOAT	V	1		Battery cabinet 3 on DCDC 1 - String_Cell_Voltage_Max_1		R	MODBUS	68	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC1_BK3	FLOAT	°c	1		Battery cabinet 3 on DCDC 1 - String_Cell_Temp_Min_1		R	MODBUS	69	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC1_BK3	FLOAT	°c	1		Battery cabinet 3 on DCDC 1 - String_Cell_Temp_Max_1		R	MODBUS	70	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC1_BK3	Logic.Application	BESS_GVL		String_SOC_1_DCDC1_BK3	FLOAT	%	1		Battery cabinet 3 on DCDC 1 - String_SOC_1		R	MODBUS	71	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_Current_2_DCDC1_BK3	FLOAT	A	1		Battery cabinet 3 on DCDC 1 - String_Current_2		R	MODBUS	72	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_Voltage_2_DCDC1_BK3	FLOAT	V	1		Battery cabinet 3 on DCDC 1 - String_Voltage_2		R	MODBUS	73	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC1_BK3	FLOAT	V	1		Battery cabinet 3 on DCDC 1 - String_Cell_Voltage_Min_2		R	MODBUS	74	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC1_BK3	FLOAT	V	1		Battery cabinet 3 on DCDC 1 - String_Cell_Voltage_Max_2		R	MODBUS	75	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC1_BK3	FLOAT	°c	1		Battery cabinet 3 on DCDC 1 - String_Cell_Temp_Min_2		R	MODBUS	76	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC1_BK3	FLOAT	°c	1		Battery cabinet 3 on DCDC 1 - String_Cell_Temp_Max_2		R	MODBUS	77	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC1_BK3	Logic.Application	BESS_GVL		String_SOC_2_DCDC1_BK3	FLOAT		1		Battery cabinet 3 on DCDC 1 - String_SOC_2		R	MODBUS	78	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC1_BK3	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC1_BK3	INT16	°c	1		Battery cabinet 3 on DCDC 1 - String_IGBT_1_Temp		R	MODBUS	79	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC1_BK3	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC1_BK3	INT16	°c	1		Battery cabinet 3 on DCDC 1 - String_Inductor_1_Temp		R	MODBUS	79	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC2_BK4_5	BOOL		1		DCDC 2 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC2_BK4_5	BOOL		1		Battery cabinet 4 and 5 on DCDC 2 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC2_BK4_5	BOOL		1		Battery cabinet 4 and 5 on DCDC 2 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC2_BK4_5	BOOL		1		Battery cabinet 4 and 5 on DCDC 2 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC2_BK4_5	BOOL		1		Battery cabinet 4 and 5 on DCDC 2 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC2_BK4_5	BOOL		1		Battery cabinet 4 and 5 on DCDC 2 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC2_BK4_5	BOOL		1		DCDC 2 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC2_BK4_5	BOOL		1		DCDC 2 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC2_BK4_5	BOOL		1		DCDC 2 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC2_BK4_5	BOOL		1		DCDC 2 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Current_1_DCDC2_BK4_5	FLOAT		1		Battery cabinet 4 and 5 on DCDC 2 - String_Current_1		R	MODBUS	81	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Voltage_1_DCDC2_BK4_5	FLOAT		1		Battery cabinet 4 and 5 on DCDC 2 - String_Voltage_1		R	MODBUS	82	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC2_BK4_5	FLOAT		1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Voltage_Min_1		R	MODBUS	83	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC2_BK4_5	FLOAT		1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Voltage_Max_1		R	MODBUS	84	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC2_BK4_5	FLOAT	°c	1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Temp_Min_1		R	MODBUS	85	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC2_BK4_5	FLOAT	°c	1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Temp_Max_1		R	MODBUS	86	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_SOC_1_DCDC2_BK4_5	FLOAT	%	1		Battery cabinet 4 and 5 on DCDC 2 - String_SOC_1		R	MODBUS	87	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Current_2_DCDC2_BK4_5	FLOAT	A	1		Battery cabinet 4 and 5 on DCDC 2 - String_Current_2		R	MODBUS	88	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Voltage_2_DCDC2_BK4_5	FLOAT	V	1		Battery cabinet 4 and 5 on DCDC 2 - String_Voltage_2		R	MODBUS	89	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC2_BK4_5	FLOAT	V	1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Voltage_Min_2		R	MODBUS	90	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC2_BK4_5	FLOAT	V	1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Voltage_Max_2		R	MODBUS	91	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC2_BK4_5	FLOAT	°c	1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Temp_Min_2		R	MODBUS	92	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC2_BK4_5	FLOAT	°c	1		Battery cabinet 4 and 5 on DCDC 2 - String_Cell_Temp_Max_2		R	MODBUS	93	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_SOC_2_DCDC2_BK4_5	FLOAT	%	1		Battery cabinet 4 and 5 on DCDC 2 - String_SOC_2		R	MODBUS	94	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC2_BK4_5	INT16	°c	1		Battery cabinet 4 and 5 on DCDC 2 - String_IGBT_1_Temp		R	MODBUS	95	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC2_BK4_5	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC2_BK4_5	INT16	°c	1		Battery cabinet 4 and 5 on DCDC 2 - String_Inductor_1_Temp		R	MODBUS	95	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC3_BK6_7	BOOL		1		DCDC 3 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC3_BK6_7	BOOL		1		Battery cabinet 6 and 7 on DCDC 3 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC3_BK6_7	BOOL		1		Battery cabinet 6 and 7 on DCDC 3 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC3_BK6_7	BOOL		1		Battery cabinet 6 and 7 on DCDC 3 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC3_BK6_7	BOOL		1		Battery cabinet 6 and 7 on DCDC 3 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC3_BK6_7	BOOL		1		Battery cabinet 6 and 7 on DCDC 3 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC3_BK6_7	BOOL		1		DCDC 3 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC3_BK6_7	BOOL		1		DCDC 3 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC3_BK6_7	BOOL		1		DCDC 3 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC3_BK6_7	BOOL		1		DCDC 3 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Current_1_DCDC3_BK6_7	FLOAT	A	1		Battery cabinet 6 and 7 on DCDC 3 - String_Current_1		R	MODBUS	97	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Voltage_1_DCDC3_BK6_7	FLOAT	V	1		Battery cabinet 6 and 7 on DCDC 3 - String_Voltage_1		R	MODBUS	98	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC3_BK6_7	FLOAT	V	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Voltage_Min_1		R	MODBUS	99	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC3_BK6_7	FLOAT	V	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Voltage_Max_1		R	MODBUS	100	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC3_BK6_7	FLOAT	°C	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Temp_Min_1		R	MODBUS	101	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC3_BK6_7	FLOAT	°C	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Temp_Max_1		R	MODBUS	102	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_SOC_1_DCDC3_BK6_7	FLOAT	%	1		Battery cabinet 6 and 7 on DCDC 3 - String_SOC_1		R	MODBUS	103	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Current_2_DCDC3_BK6_7	FLOAT	A	1		Battery cabinet 6 and 7 on DCDC 3 - String_Current_2		R	MODBUS	104	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Voltage_2_DCDC3_BK6_7	FLOAT	V	1		Battery cabinet 6 and 7 on DCDC 3 - String_Voltage_2		R	MODBUS	105	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC3_BK6_7	FLOAT	V	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Voltage_Min_2		R	MODBUS	106	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC3_BK6_7	FLOAT	V	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Voltage_Max_2		R	MODBUS	107	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC3_BK6_7	FLOAT	°C	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Temp_Min_2		R	MODBUS	108	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC3_BK6_7	FLOAT	°C	1		Battery cabinet 6 and 7 on DCDC 3 - String_Cell_Temp_Max_2		R	MODBUS	109	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_SOC_2_DCDC3_BK6_7	FLOAT	%	1		Battery cabinet 6 and 7 on DCDC 3 - String_SOC_2		R	MODBUS	110	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC3_BK6_7	INT16	°C	1		Battery cabinet 6 and 7 on DCDC 3 - String_IGBT_1_Temp		R	MODBUS	111	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC3_BK6_7	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC3_BK6_7	INT16	°C	1		Battery cabinet 6 and 7 on DCDC 3 - String_Inductor_1_Temp		R	MODBUS	111	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC3_BK8	BOOL		1		String_StatusWord_Balancing		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC3_BK8	BOOL		1		Battery cabinet 8 on DCDC 3 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC3_BK8	BOOL		1		Battery cabinet 8 on DCDC 3 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC3_BK8	BOOL		1		Battery cabinet 8 on DCDC 3 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC3_BK8	BOOL		1		Battery cabinet 8 on DCDC 3 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC3_BK8	BOOL		1		Battery cabinet 8 on DCDC 3 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC3_BK8	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC3_BK8	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC3_BK8	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC3_BK8	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_Current_1_DCDC3_BK8	FLOAT		1		Battery cabinet 8 on DCDC 3 - String_Current_1		R	MODBUS	113	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_Voltage_1_DCDC3_BK8	FLOAT		1		Battery cabinet 8 on DCDC 3 - String_Voltage_1		R	MODBUS	114	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC3_BK8	FLOAT	V	1		Battery cabinet 8 on DCDC 3 - String_Cell_Voltage_Min_1		R	MODBUS	115	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC3_BK8	FLOAT	V	1		Battery cabinet 8 on DCDC 3 - String_Cell_Voltage_Max_1		R	MODBUS	116	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC3_BK8	FLOAT	°C	1		Battery cabinet 8 on DCDC 3 - String_Cell_Temp_Min_1		R	MODBUS	117	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC3_BK8	FLOAT	°C	1		Battery cabinet 8 on DCDC 3 - String_Cell_Temp_Max_1		R	MODBUS	118	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC3_BK8	Logic.Application	BESS_GVL		String_SOC_1_DCDC3_BK8	FLOAT	%	1		Battery cabinet 8 on DCDC 3 - String_SOC_1		R	MODBUS	119	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_Current_2_DCDC3_BK8	FLOAT	A	1		Battery cabinet 8 on DCDC 3 - String_Current_2		R	MODBUS	120	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_Voltage_2_DCDC3_BK8	FLOAT	V	1		Battery cabinet 8 on DCDC 3 - String_Voltage_2		R	MODBUS	121	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC3_BK8	FLOAT	V	1		Battery cabinet 8 on DCDC 3 - String_Cell_Voltage_Min_2		R	MODBUS	122	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC3_BK8	FLOAT	V	1		Battery cabinet 8 on DCDC 3 - String_Cell_Voltage_Max_2		R	MODBUS	123	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC3_BK8	FLOAT	°C	1		Battery cabinet 8 on DCDC 3 - String_Cell_Temp_Min_2		R	MODBUS	124	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC3_BK8	FLOAT	°C	1		Battery cabinet 8 on DCDC 3 - String_Cell_Temp_Max_2		R	MODBUS	125	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC3_BK8	Logic.Application	BESS_GVL		String_SOC_2_DCDC3_BK8	FLOAT	%	1		Battery cabinet 8 on DCDC 3 - String_SOC_2		R	MODBUS	126	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC3_BK8	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC3_BK8	INT16	°C	1		Battery cabinet 8 on DCDC 3 - String_IGBT_1_Temp		R	MODBUS	127	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC3_BK8	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC3_BK8	INT16	°C	1		Battery cabinet 8 on DCDC 3 - String_Inductor_1_Temp		R	MODBUS	127	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC4_BK9_10	BOOL		1		DCDC 4 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC4_BK9_10	BOOL		1		Battery cabinet 9 and 10 on DCDC 4 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC4_BK9_10	BOOL		1		Battery cabinet 9 and 10 on DCDC 4 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC4_BK9_10	BOOL		1		Battery cabinet 9 and 10 on DCDC 4 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC4_BK9_10	BOOL		1		Battery cabinet 9 and 10 on DCDC 4 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC4_BK9_10	BOOL		1		Battery cabinet 9 and 10 on DCDC 4 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC4_BK9_10	BOOL		1		DCDC 4 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC4_BK9_10	BOOL		1		DCDC 4 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC4_BK9_10	BOOL		1		DCDC 4 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC4_BK9_10	BOOL		1		DCDC 4 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Current_1_DCDC4_BK9_10	FLOAT	A	1		Battery cabinet 9 and 10 on DCDC 4 - String_Current_1		R	MODBUS	129	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Voltage_1_DCDC4_BK9_10	FLOAT	V	1		Battery cabinet 9 and 10 on DCDC 4 - String_Voltage_1		R	MODBUS	130	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC4_BK9_10	FLOAT	V	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Voltage_Min_1		R	MODBUS	131	INPUT REGISTER	INT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC4_BK9_10	FLOAT	V	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Voltage_Max_1		R	MODBUS	132	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC4_BK9_10	FLOAT	°C	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Temp_Min_1		R	MODBUS	133	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC4_BK9_10	FLOAT	°C	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Temp_Max_1		R	MODBUS	134	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_SOC_1_DCDC4_BK9_10	FLOAT	%	1		Battery cabinet 9 and 10 on DCDC 4 - String_SOC_1		R	MODBUS	135	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Current_2_DCDC4_BK9_10	FLOAT	A	1		Battery cabinet 9 and 10 on DCDC 4 - String_Current_2		R	MODBUS	136	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Voltage_2_DCDC4_BK9_10	FLOAT	V	1		Battery cabinet 9 and 10 on DCDC 4 - String_Voltage_2		R	MODBUS	137	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC4_BK9_10	FLOAT	V	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Voltage_Min_2		R	MODBUS	138	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC4_BK9_10	FLOAT	V	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Voltage_Max_2		R	MODBUS	139	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC4_BK9_10	FLOAT	°C	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Temp_Min_2		R	MODBUS	140	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC4_BK9_10	FLOAT	°C	1		Battery cabinet 9 and 10 on DCDC 4 - String_Cell_Temp_Max_2		R	MODBUS	141	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_SOC_2_DCDC4_BK9_10	FLOAT	%	1		Battery cabinet 9 and 10 on DCDC 4 - String_SOC_2		R	MODBUS	142	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC4_BK9_10	INT16	°C	1		Battery cabinet 9 and 10 on DCDC 4 - String_IGBT_1_Temp		R	MODBUS	143	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC4_BK9_10	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC4_BK9_10	INT16	°C	1		Battery cabinet 9 and 10 on DCDC 4 - String_Inductor_1_Temp		R	MODBUS	143	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC4_BK11	BOOL		1		String_StatusWord_Balancing		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC4_BK11	BOOL		1		Battery cabinet 11 on DCDC 4 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC4_BK11	BOOL		1		Battery cabinet 11 on DCDC 4 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC4_BK11	BOOL		1		Battery cabinet 11 on DCDC 4 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC4_BK11	BOOL		1		Battery cabinet 11 on DCDC 4 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC4_BK11	BOOL		1		Battery cabinet 11 on DCDC 4 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC4_BK11	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC4_BK11	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC4_BK11	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC4_BK11	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_Current_1_DCDC4_BK11	FLOAT	A	1		Battery cabinet 11 on DCDC 4 - String_Current_1		R	MODBUS	145	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_Voltage_1_DCDC4_BK11	FLOAT	V	1		Battery cabinet 11 on DCDC 4 - String_Voltage_1		R	MODBUS	146	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC4_BK11	FLOAT	V	1		Battery cabinet 11 on DCDC 4 - String_Cell_Voltage_Min_1		R	MODBUS	147	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC4_BK11	FLOAT	V	1		Battery cabinet 11 on DCDC 4 - String_Cell_Voltage_Max_1		R	MODBUS	148	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC4_BK11	FLOAT	°C	1		Battery cabinet 11 on DCDC 4 - String_Cell_Temp_Min_1		R	MODBUS	149	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC4_BK11	FLOAT	°C	1		Battery cabinet 11 on DCDC 4 - String_Cell_Temp_Max_1		R	MODBUS	150	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC4_BK11	Logic.Application	BESS_GVL		String_SOC_1_DCDC4_BK11	FLOAT	%	1		Battery cabinet 11 on DCDC 4 - String_SOC_1		R	MODBUS	151	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_Current_2_DCDC4_BK11	FLOAT	A	1		Battery cabinet 11 on DCDC 4 - String_Current_2		R	MODBUS	152	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_Voltage_2_DCDC4_BK11	FLOAT	V	1		Battery cabinet 11 on DCDC 4 - String_Voltage_2		R	MODBUS	153	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC4_BK11	FLOAT	V	1		Battery cabinet 11 on DCDC 4 - String_Cell_Voltage_Min_2		R	MODBUS	154	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC4_BK11	FLOAT	V	1		Battery cabinet 11 on DCDC 4 - String_Cell_Voltage_Max_2		R	MODBUS	155	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC4_BK11	FLOAT	°C	1		Battery cabinet 11 on DCDC 4 - String_Cell_Temp_Min_2		R	MODBUS	156	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC4_BK11	FLOAT	°C	1		Battery cabinet 11 on DCDC 4 - String_Cell_Temp_Max_2		R	MODBUS	157	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC4_BK11	Logic.Application	BESS_GVL		String_SOC_2_DCDC4_BK11	FLOAT	%	1		Battery cabinet 11 on DCDC 4 - String_SOC_2		R	MODBUS	158	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC4_BK11	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC4_BK11	INT16	°C	1		Battery cabinet 11 on DCDC 4 - String_IGBT_1_Temp		R	MODBUS	159	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC4_BK11	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC4_BK11	INT16	°C	1		Battery cabinet 11 on DCDC 4 - String_Inductor_1_Temp		R	MODBUS	159	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC6_BK12_13	BOOL		1		DCDC 6 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC6_BK12_13	BOOL		1		Battery cabinet 12 and 13 on DCDC 6 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC6_BK12_13	BOOL		1		Battery cabinet 12 and 13 on DCDC 6 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC6_BK12_13	BOOL		1		Battery cabinet 12 and 13 on DCDC 6 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC6_BK12_13	BOOL		1		Battery cabinet 12 and 13 on DCDC 6 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC6_BK12_13	BOOL		1		Battery cabinet 12 and 13 on DCDC 6 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC6_BK12_13	BOOL		1		DCDC 6 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC6_BK12_13	BOOL		1		DCDC 6 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC6_BK12_13	BOOL		1		DCDC 6 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC6_BK12_13	BOOL		1		DCDC 6 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Current_1_DCDC6_BK12_13	FLOAT	A	1		Battery cabinet 12 and 13 on DCDC 6 - String_Current_1		R	MODBUS	161	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Voltage_1_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Voltage_1		R	MODBUS	162	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Voltage_Min_1		R	MODBUS	163	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Voltage_Max_1		R	MODBUS	164	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Temp_Min_1		R	MODBUS	165	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC6_BK12_13	FLOAT	°C	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Temp_Max_1		R	MODBUS	166	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_SOC_1_DCDC6_BK12_13	FLOAT	%	1		Battery cabinet 12 and 13 on DCDC 6 - String_SOC_1		R	MODBUS	167	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Current_2_DCDC6_BK12_13	FLOAT	A	1		Battery cabinet 12 and 13 on DCDC 6 - String_Current_2		R	MODBUS	168	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Voltage_2_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Voltage_2		R	MODBUS	169	INPUT REGISTER	INT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Voltage_Min_2		R	MODBUS	170	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC6_BK12_13	FLOAT	V	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Voltage_Max_2		R	MODBUS	171	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC6_BK12_13	FLOAT	°C	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Temp_Min_2		R	MODBUS	172	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC6_BK12_13	FLOAT	°C	1		Battery cabinet 12 and 13 on DCDC 6 - String_Cell_Temp_Max_2		R	MODBUS	173	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_SOC_2_DCDC6_BK12_13	FLOAT	%	1		Battery cabinet 12 and 13 on DCDC 6 - String_SOC_2		R	MODBUS	174	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC6_BK12_13	INT16	°C	1		Battery cabinet 12 and 13 on DCDC 6 - String_IGBT_1_Temp		R	MODBUS	175	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC6_BK12_13	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC6_BK12_13	INT16	°C	1		Battery cabinet 12 and 13 on DCDC 6 - String_Inductor_1_Temp		R	MODBUS	175	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC6_BK14	BOOL		1		String_StatusWord_Balancing		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC6_BK14	BOOL		1		Battery cabinet 14 on DCDC 6 - String_StatusWord_Balancing_Active		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC6_BK14	BOOL		1		Battery cabinet 14 on DCDC 6 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC6_BK14	BOOL		1		Battery cabinet 14 on DCDC 6 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC6_BK14	BOOL		1		Battery cabinet 14 on DCDC 6 - String_StatusWord_Battery_Rack1_Error		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC6_BK14	BOOL		1		Battery cabinet 14 on DCDC 6 - String_StatusWord_Battery_Rack2_Error		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC6_BK14	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC6_BK14	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC6_BK14	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC6_BK14	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS	176	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_Current_1_DCDC6_BK14	FLOAT	A	1		Battery cabinet 14 on DCDC 6 - String_Current_1		R	MODBUS	177	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_Voltage_1_DCDC6_BK14	FLOAT	V	1		Battery cabinet 14 on DCDC 6 - String_Voltage_1		R	MODBUS	178	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC6_BK14	FLOAT	V	1		Battery cabinet 14 on DCDC 6 - String_Cell_Voltage_Min_1		R	MODBUS	179	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC6_BK14	FLOAT	V	1		Battery cabinet 14 on DCDC 6 - String_Cell_Voltage_Max_1		R	MODBUS	180	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC6_BK14	FLOAT	°C	1		Battery cabinet 14 on DCDC 6 - String_Cell_Temp_Min_1		R	MODBUS	181	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC6_BK14	FLOAT	°C	1		Battery cabinet 14 on DCDC 6 - String_Cell_Temp_Max_1		R	MODBUS	182	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC6_BK14	Logic.Application	BESS_GVL		String_SOC_1_DCDC6_BK14	FLOAT	%	1		Battery cabinet 14 on DCDC 6 - String_SOC_1		R	MODBUS	183	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_Current_2_DCDC6_BK14	FLOAT	A	1		Battery cabinet 14 on DCDC 6 - String_Current_2		R	MODBUS	184	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_Voltage_2_DCDC6_BK14	FLOAT	V	1		Battery cabinet 14 on DCDC 6 - String_Voltage_2		R	MODBUS	185	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC6_BK14	FLOAT	V	1		Battery cabinet 14 on DCDC 6 - String_Cell_Voltage_Min_2		R	MODBUS	186	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC6_BK14	FLOAT	V	1		Battery cabinet 14 on DCDC 6 - String_Cell_Voltage_Max_2		R	MODBUS	187	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC6_BK14	FLOAT	°C	1		Battery cabinet 14 on DCDC 6 - String_Cell_Temp_Min_2		R	MODBUS	188	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC6_BK14	FLOAT	°C	1		Battery cabinet 14 on DCDC 6 - String_Cell_Temp_Max_2		R	MODBUS	189	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC6_BK14	Logic.Application	BESS_GVL		String_SOC_2_DCDC6_BK14	FLOAT	%	1		Battery cabinet 14 on DCDC 6 - String_SOC_2		R	MODBUS	190	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC6_BK14	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC6_BK14	INT16	°C	1		Battery cabinet 14 on DCDC 6 - String_IGBT_1_Temp		R	MODBUS	191	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC6_BK14	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC6_BK14	INT16	°C	1		Battery cabinet 14 on DCDC 6 - String_Inductor_1_Temp		R	MODBUS	191	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC7_BK15_16	BOOL		1		DCDC 7 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC7_BK15_16	BOOL		1		Battery cabinet 15 and 16 on DCDC 7 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC7_BK15_16	BOOL		1		Battery cabinet 15 and 16 on DCDC 7 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC7_BK15_16	BOOL		1		Battery cabinet 15 and 16 on DCDC 7 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC7_BK15_16	BOOL		1		Battery cabinet 15 and 16 on DCDC 7 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC7_BK15_16	BOOL		1		Battery cabinet 15 and 16 on DCDC 7 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC7_BK15_16	BOOL		1		DCDC 7 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC7_BK15_16	BOOL		1		DCDC 7 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC7_BK15_16	BOOL		1		DCDC 7 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC7_BK15_16	BOOL		1		DCDC 7 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Current_1_DCDC7_BK15_16	FLOAT	A	1		Battery cabinet 15 and 16 on DCDC 7 - String_Current_1		R	MODBUS	193	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Voltage_1_DCDC7_BK15_16	FLOAT	V	1		Battery cabinet 15 and 16 on DCDC 7 - String_Voltage_1		R	MODBUS	194	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC7_BK15_16	FLOAT	V	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Voltage_Min_1		R	MODBUS	195	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC7_BK15_16	FLOAT	V	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Voltage_Max_1		R	MODBUS	196	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC7_BK15_16	FLOAT	°C	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Temp_Min_1		R	MODBUS	197	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC7_BK15_16	FLOAT	°C	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Temp_Max_1		R	MODBUS	198	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_SOC_1_DCDC7_BK15_16	FLOAT	%	1		Battery cabinet 15 and 16 on DCDC 7 - String_SOC_1		R	MODBUS	199	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Current_2_DCDC7_BK15_16	FLOAT	A	1		Battery cabinet 15 and 16 on DCDC 7 - String_Current_2		R	MODBUS	200	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Voltage_2_DCDC7_BK15_16	FLOAT	V	1		Battery cabinet 15 and 16 on DCDC 7 - String_Voltage_2		R	MODBUS	201	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC7_BK15_16	FLOAT	V	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Voltage_Min_2		R	MODBUS	202	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC7_BK15_16	FLOAT	V	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Voltage_Max_2		R	MODBUS	203	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC7_BK15_16	FLOAT	°C	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Temp_Min_2		R	MODBUS	204	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC7_BK15_16	FLOAT	°C	1		Battery cabinet 15 and 16 on DCDC 7 - String_Cell_Temp_Max_2		R	MODBUS	205	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_SOC_2_DCDC7_BK15_16	FLOAT	%	1		Battery cabinet 15 and 16 on DCDC 7 - String_SOC_2		R	MODBUS	206	INPUT REGISTER	INT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC7_BK15_16	INT16	°C	1		Battery cabinet 15 and 16 on DCDC 7 - String_IGBT_1_Temp		R	MODBUS	207	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC7_BK15_16	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC7_BK15_16	INT16	°C	1		Battery cabinet 15 and 16 on DCDC 7 - String_Inductor_1_Temp		R	MODBUS	207	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC7_BK17	BOOL		1		String_StatusWord_Balancing		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC7_BK17	BOOL		1		Battery cabinet 17 on DCDC 7 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC7_BK17	BOOL		1		Battery cabinet 17 on DCDC 7 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC7_BK17	BOOL		1		Battery cabinet 17 on DCDC 7 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC7_BK17	BOOL		1		Battery cabinet 17 on DCDC 7 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC7_BK17	BOOL		1		Battery cabinet 17 on DCDC 7 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC7_BK17	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC7_BK17	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC7_BK17	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC7_BK17	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_Current_1_DCDC7_BK17	FLOAT	A	1		Battery cabinet 17 on DCDC 7 - String_Current_1		R	MODBUS	209	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_Voltage_1_DCDC7_BK17	FLOAT	V	1		Battery cabinet 17 on DCDC 7 - String_Voltage_1		R	MODBUS	210	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC7_BK17	FLOAT	V	1		Battery cabinet 17 on DCDC 7 - String_Cell_Voltage_Min_1		R	MODBUS	211	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC7_BK17	FLOAT	V	1		Battery cabinet 17 on DCDC 7 - String_Cell_Voltage_Max_1		R	MODBUS	212	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC7_BK17	FLOAT	°C	1		Battery cabinet 17 on DCDC 7 - String_Cell_Temp_Min_1		R	MODBUS	213	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC7_BK17	FLOAT	°C	1		Battery cabinet 17 on DCDC 7 - String_Cell_Temp_Max_1		R	MODBUS	214	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC7_BK17	Logic.Application	BESS_GVL		String_SOC_1_DCDC7_BK17	FLOAT	%	1		Battery cabinet 17 on DCDC 7 - String_SOC_1		R	MODBUS	215	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_Current_2_DCDC7_BK17	FLOAT	A	1		Battery cabinet 17 on DCDC 7 - String_Current_2		R	MODBUS	216	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_Voltage_2_DCDC7_BK17	FLOAT	V	1		Battery cabinet 17 on DCDC 7 - String_Voltage_2		R	MODBUS	217	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC7_BK17	FLOAT	V	1		Battery cabinet 17 on DCDC 7 - String_Cell_Voltage_Min_2		R	MODBUS	218	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC7_BK17	FLOAT	V	1		Battery cabinet 17 on DCDC 7 - String_Cell_Voltage_Max_2		R	MODBUS	219	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC7_BK17	FLOAT	°C	1		Battery cabinet 17 on DCDC 7 - String_Cell_Temp_Min_2		R	MODBUS	220	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC7_BK17	FLOAT	°C	1		Battery cabinet 17 on DCDC 7 - String_Cell_Temp_Max_2		R	MODBUS	221	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC7_BK17	Logic.Application	BESS_GVL		String_SOC_2_DCDC7_BK17	FLOAT	%	1		Battery cabinet 17 on DCDC 7 - String_SOC_2		R	MODBUS	222	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC7_BK17	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC7_BK17	INT16	°C	1		Battery cabinet 17 on DCDC 7 - String_IGBT_1_Temp		R	MODBUS	223	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC7_BK17	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC7_BK17	INT16	°C	1		Battery cabinet 17 on DCDC 7 - String_Inductor_1_Temp		R	MODBUS	223	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC8_BK18_19	BOOL		1		DCDC 8 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC8_BK18_19	BOOL		1		Battery cabinet 18 and 19 on DCDC 8 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC8_BK18_19	BOOL		1		Battery cabinet 18 and 19 on DCDC 8 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC8_BK18_19	BOOL		1		Battery cabinet 18 and 19 on DCDC 8 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC8_BK18_19	BOOL		1		Battery cabinet 18 and 19 on DCDC 8 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC8_BK18_19	BOOL		1		Battery cabinet 18 and 19 on DCDC 8 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC8_BK18_19	BOOL		1		DCDC 8 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC8_BK18_19	BOOL		1		DCDC 8 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC8_BK18_19	BOOL		1		DCDC 8 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC8_BK18_19	BOOL		1		DCDC 8 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Current_1_DCDC8_BK18_19	FLOAT		1		Battery cabinet 18 and 19 on DCDC 8 - String_Current_1		R	MODBUS	225	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Voltage_1_DCDC8_BK18_19	FLOAT		1		Battery cabinet 18 and 19 on DCDC 8 - String_Voltage_1		R	MODBUS	226	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC8_BK18_19	FLOAT	V	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Voltage_Min_1		R	MODBUS	227	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC8_BK18_19	FLOAT	V	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Voltage_Max_1		R	MODBUS	228	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC8_BK18_19	FLOAT	°C	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Temp_Min_1		R	MODBUS	229	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC8_BK18_19	FLOAT	°C	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Temp_Max_1		R	MODBUS	230	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_SOC_1_DCDC8_BK18_19	FLOAT		1		Battery cabinet 18 and 19 on DCDC 8 - String_SOC_1		R	MODBUS	231	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Current_2_DCDC8_BK18_19	FLOAT	A	1		Battery cabinet 18 and 19 on DCDC 8 - String_Current_2		R	MODBUS	232	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Voltage_2_DCDC8_BK18_19	FLOAT	V	1		Battery cabinet 18 and 19 on DCDC 8 - String_Voltage_2		R	MODBUS	233	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC8_BK18_19	FLOAT	V	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Voltage_Min_2		R	MODBUS	234	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC8_BK18_19	FLOAT	V	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Voltage_Max_2		R	MODBUS	235	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC8_BK18_19	FLOAT	°C	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Temp_Min_2		R	MODBUS	236	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC8_BK18_19	FLOAT	°C	1		Battery cabinet 18 and 19 on DCDC 8 - String_Cell_Temp_Max_2		R	MODBUS	237	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_SOC_2_DCDC8_BK18_19	FLOAT	%	1		Battery cabinet 18 and 19 on DCDC 8 - String_SOC_2		R	MODBUS	238	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC8_BK18_19	INT16	°C	1		Battery cabinet 18 and 19 on DCDC 8 - String_IGBT_1_Temp		R	MODBUS	239	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC8_BK18_19	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC8_BK18_19	INT16	°C	1		Battery cabinet 18 and 19 on DCDC 8 - String_Inductor_1_Temp		R	MODBUS	239	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC9_BK20_21	BOOL		1		DCDC 9 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC9_BK20_21	BOOL		1		Battery cabinet 20 and 21 on DCDC 9 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC9_BK20_21	BOOL		1		Battery cabinet 20 and 21 on DCDC 9 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC9_BK20_21	BOOL		1		Battery cabinet 20 and 21 on DCDC 9 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC9_BK20_21	BOOL		1		Battery cabinet 20 and 21 on DCDC 9 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC9_BK20_21	BOOL		1		Battery cabinet 20 and 21 on DCDC 9 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC9_BK20_21	BOOL		1		DCDC 9 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triaered_Battery_Rack2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC9_BK20_21	BOOL		1		DCDC 9 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC9_BK20_21	BOOL		1		DCDC 9 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC9_BK20_21	BOOL		1		DCDC 9 -		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Current_1_DCDC9_BK20_21	FLOAT		1		Battery cabinet 20 and 21 on DCDC 9 - String_Current_1		R	MODBUS	241	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Voltage_1_DCDC9_BK20_21	FLOAT		1		Battery cabinet 20 and 21 on DCDC 9 - String_Voltage_1		R	MODBUS	242	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC9_BK20_21	FLOAT	V	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Voltage_Min_1		R	MODBUS	243	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC9_BK20_21	FLOAT	V	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Voltage_Max_1		R	MODBUS	244	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC9_BK20_21	FLOAT	°C	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Temp_Min_1		R	MODBUS	245	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC9_BK20_21	FLOAT	°C	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Temp_Max_1		R	MODBUS	246	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_SOC_1_DCDC9_BK20_21	FLOAT	%	1		Battery cabinet 20 and 21 on DCDC 9 - String_SOC_1		R	MODBUS	247	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Current_2_DCDC9_BK20_21	FLOAT	A	1		Battery cabinet 20 and 21 on DCDC 9 - String_Current_2		R	MODBUS	248	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Voltage_2_DCDC9_BK20_21	FLOAT	V	1		Battery cabinet 20 and 21 on DCDC 9 - String_Voltage_2		R	MODBUS	249	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC9_BK20_21	FLOAT	V	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Voltage_Min_2		R	MODBUS	250	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC9_BK20_21	FLOAT	V	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Voltage_Max_2		R	MODBUS	251	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC9_BK20_21	FLOAT	°C	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Temp_Min_2		R	MODBUS	252	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC9_BK20_21	FLOAT	°C	1		Battery cabinet 20 and 21 on DCDC 9 - String_Cell_Temp_Max_2		R	MODBUS	253	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_SOC_2_DCDC9_BK20_21	FLOAT		1		Battery cabinet 20 and 21 on DCDC 9 - String_SOC_2		R	MODBUS	254	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC9_BK20_21	INT16	°C	1		Battery cabinet 20 and 21 on DCDC 9 - String_IGBT_1_Temp		R	MODBUS	255	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC9_BK20_21	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC9_BK20_21	INT16	°C	1		Battery cabinet 20 and 21 on DCDC 9 - String_Inductor_1_Temp		R	MODBUS	255	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Demand_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Demand_DCDC9_BK22	BOOL		1		String_StatusWord_Balancing		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Balancing_Active_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Balancing_Active_DCDC9_BK22	BOOL		1		Battery cabinet 22 on DCDC 9 - String_StatusWord_Balancing_Active		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Connected_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Connected_DCDC9_BK22	BOOL		1		Battery cabinet 22 on DCDC 9 - String_StatusWord_Battery_Rack1_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Connected_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Connected_DCDC9_BK22	BOOL		1		Battery cabinet 22 on DCDC 9 - String_StatusWord_Battery_Rack2_Connected		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack1_Error_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack1_Error_DCDC9_BK22	BOOL		1		Battery cabinet 22 on DCDC 9 - String_StatusWord_Battery_Rack1_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Battery_Rack2_Error_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Battery_Rack2_Error_DCDC9_BK22	BOOL		1		Battery cabinet 22 on DCDC 9 - String_StatusWord_Battery_Rack2_Error		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack1_DCDC9_BK22	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Smoke_Detector_Triaered_Battery_Rack2_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Smoke_Detector_Triggered_Battery_Rack2_DCDC9_BK22	BOOL		1		String_StatusWord_Smoke_D		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_1_DCDC9_BK22	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_StatusWord_Gas_Alarm_Battery_Rack_2_DCDC9_BK22	BOOL		1		String_StatusWord_Gas_Alar		R	MODBUS			BOOL
Logic.Application.BESS_GVL.String_Current_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_Current_1_DCDC9_BK22	FLOAT	C	1		Battery cabinet 22 on DCDC 9 - String_Current_1		R	MODBUS	257	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_Voltage_1_DCDC9_BK22	FLOAT	V	1		Battery cabinet 22 on DCDC 9 - String_Voltage_1		R	MODBUS	258	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_1_DCDC9_BK22	FLOAT	V	1		Battery cabinet 22 on DCDC 9 - String_Cell_Voltage_Min_1		R	MODBUS	259	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_1_DCDC9_BK22	FLOAT	V	1		Battery cabinet 22 on DCDC 9 - String_Cell_Voltage_Max_1		R	MODBUS	260	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Temp_Min_1_DCDC9_BK22	FLOAT	°C	1		Battery cabinet 22 on DCDC 9 - String_Cell_Temp_Min_1		R	MODBUS	261	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Temp_Max_1_DCDC9_BK22	FLOAT	°C	1		Battery cabinet 22 on DCDC 9 - String_Cell_Temp_Max_1		R	MODBUS	262	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_1_DCDC9_BK22	Logic.Application	BESS_GVL		String_SOC_1_DCDC9_BK22	FLOAT	%	1		Battery cabinet 22 on DCDC 9 - String_SOC_1		R	MODBUS	263	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Current_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_Current_2_DCDC9_BK22	FLOAT	A	1		Battery cabinet 22 on DCDC 9 - String_Current_2		R	MODBUS	264	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Voltage_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_Voltage_2_DCDC9_BK22	FLOAT	V	1		Battery cabinet 22 on DCDC 9 - String_Voltage_2		R	MODBUS	265	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Min_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Voltage_Min_2_DCDC9_BK22	FLOAT	V	1		Battery cabinet 22 on DCDC 9 - String_Cell_Voltage_Min_2		R	MODBUS	266	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Voltage_Max_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Voltage_Max_2_DCDC9_BK22	FLOAT	V	1		Battery cabinet 22 on DCDC 9 - String_Cell_Voltage_Max_2		R	MODBUS	267	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Min_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Temp_Min_2_DCDC9_BK22	FLOAT	°C	1		Battery cabinet 22 on DCDC 9 - String_Cell_Temp_Min_2		R	MODBUS	268	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_Cell_Temp_Max_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_Cell_Temp_Max_2_DCDC9_BK22	FLOAT	°C	1		Battery cabinet 22 on DCDC 9 - String_Cell_Temp_Max_2		R	MODBUS	269	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_SOC_2_DCDC9_BK22	Logic.Application	BESS_GVL		String_SOC_2_DCDC9_BK22	FLOAT		1		Battery cabinet 22 on DCDC 9 - String_SOC_2		R	MODBUS	270	INPUT REGISTER	INT
Logic.Application.BESS_GVL.String_IGBT_1_Temp_DCDC9_BK22	Logic.Application	BESS_GVL		String_IGBT_1_Temp_DCDC9_BK22	INT16	°C	1		Battery cabinet 22 on DCDC 9 - String_IGBT_1_Temp		R	MODBUS	271	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.String_Inductor_1_Temp_DCDC9_BK22	Logic.Application	BESS_GVL		String_Inductor_1_Temp_DCDC9_BK22	INT16	°C	1		Battery cabinet 22 on DCDC 9 - String_Inductor_1_Temp		R	MODBUS	271	INPUT REGISTER	SINT
Logic.Application.BESS_GVL.Control_Controlword	Logic.Application	BESS_GVL	Control	Controlword	INT16		1		Controlword	Bit:13 = 1 -> Start Bit:13 = 0 -> Stop	W	MODBUS	4000(0 - 13 Bit Reference)	HOLDING REGISTER	INT
Logic.Application.BESS_GVL.Control_Reset_cmd	Logic.Application	BESS_GVL		Control_Reset_cmd	BOOL		1		Control_Reset_cmd		W	MODBUS	4000 (0)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Preheating_System_cmd	Logic.Application	BESS_GVL		Control_Enable_Preheating_System_cmd	BOOL		1		Control_Enable_Preheating_System_cmd		W	MODBUS	4000(1)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Precharging_DC_Link_cmd	Logic.Application	BESS_GVL		Control_Enable_Precharging_DC_Link_cmd	BOOL		1		Control_Enable_Precharging_DC_Link_cmd		W	MODBUS	4000(2)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Primary_Control_Mode_cmd	Logic.Application	BESS_GVL		Control_Enable_Primary_Control_Mode_cmd	BOOL		1		Control_Enable_Primary_Control_Mode_cmd		W	MODBUS	4000(3)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_1_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_1_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_1_cmd		W	MODBUS	4000(4)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_2_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_2_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_2_cmd		W	MODBUS	4000(5)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_3_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_3_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_3_cmd		W	MODBUS	4000(6)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_4_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_4_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_4_cmd		W	MODBUS	4000(7)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_5_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_5_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_5_cmd		W	MODBUS	4000(8)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_6_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_6_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_6_cmd		W	MODBUS	4000(9)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_7_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_7_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_7_cmd		W	MODBUS	4000(10)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_8_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_8_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_8_cmd		W	MODBUS	4000(11)	HOLDING REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BESS_GVL.Control_Enable_Balancing_DC_DC_9_cmd	Logic.Application	BESS_GVL		Control_Enable_Balancing_DC_DC_9_cmd	BOOL		1		Control_Enable_Balancing_DC_DC_9_cmd		W	MODBUS	4000(12)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_Start_Signal_From_EMCS_cmd	Logic.Application	BESS_GVL		Control_Start_Signal_From_EMCS_cmd	BOOL		1		Control_Start_Signal_From_EMCS_cmd		W	MODBUS	4000(13)	HOLDING REGISTER	BOOL
Logic.Application.BESS_GVL.Control_HeartBeat_cmd	Logic.Application	BESS_GVL		Control_HeartBeat_cmd	INT16		1		Control_HeartBeat_cmd		W	MODBUS	40001	HOLDING REGISTER	INT
Logic.Application.BESS_GVL.Control_HeartBeat_TimeOut_cmd	Logic.Application	BESS_GVL		Control_HeartBeat_TimeOut_cmd	INT16		1		Control_HeartBeat_TimeOut_cmd		W	MODBUS	40002	HOLDING REGISTER	INT
Logic.Application.BESS_GVL.Control_Request_Alarm_Record_cmd	Logic.Application	BESS_GVL		Control_Request_Alarm_Record_cmd	INT16		1		Control_Request_Alarm_Record_cmd		W	MODBUS	40003	HOLDING REGISTER	INT
Logic.Application.BESS_GVL.Control_ActivePower_cmd	Logic.Application	BESS_GVL		Control_ActivePower_cmd	INT16	kW	1	-1000 : 1000	Control_ActivePower_cmd		W	MODBUS	40004	HOLDING REGISTER	INT
Logic.Application.BESS_GVL.Control_ReactivePower_cmd	Logic.Application	BESS_GVL		Control_ReactivePower_cmd	INT16	KVAr	1	-	Control_ReactivePower_cmd		W	MODBUS	40005	HOLDING REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.MAIN_PowerSetpoint	Logic.Application	ELECTROLYZER_GVL	MAIN	PowerSetpoint	FLOAT	Kw	1	250-2500	Requested power set point		W	PROFINET	0-1	HOLDING REGISTER	REAL
Logic.Application.ELECTROLYZER_GVL.MAIN_FLOW_SETPOINT	Logic.Application	ELECTROLYZER_GVL	MAIN	FLOW SETPOINT	FLOAT	NM3/H	1	50-500	Requested flow set point		W	PROFINET	2 - 3	HOLDING REGISTER	REAL
Logic.Application.ELECTROLYZER_GVL.MAIN_WATCHDOG	Logic.Application	ELECTROLYZER_GVL	MAIN	WATCHDOG	INT16	-	1	0-300	Communication control		W	PROFINET	4	HOLDING REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.YEAR_MONTH	Logic.Application	ELECTROLYZER_GVL		YEAR_MONTH	BYTE	-					W	PROFINET	5		INT
Logic.Application.ELECTROLYZER_GVL.DAY_HOUR	Logic.Application	ELECTROLYZER_GVL		DAY_HOUR	BYTE	-					W	PROFINET	6		INT
Logic.Application.ELECTROLYZER_GVL.MIN_SECONDES	Logic.Application	ELECTROLYZER_GVL		MIN_SECONDES	BYTE	-					W	PROFINET	7		INT
Logic.Application.ELECTROLYZER_GVL.MAIN_Command	Logic.Application	ELECTROLYZER_GVL	MAIN	Command	UINT16	-	1	-	1 : MODE STOP (STOP) 2 : MODE IDLE (IDLE) 3 : MODE STANDBY (STANDY BY) 4 : MODE PRODUCTION		W	PROFINET	8	HOLDING REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise	BOOL	-	1	-	Bit = 0 : Power Setpoint Bit = 1 : Flow H2 Setpoint		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_1_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_1_cmd	BOOL	-	1	-	Spare_1		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_2_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_2_cmd	BOOL	-	1	-	Spare_2		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_3_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_3_cmd	BOOL	-	1	-	Spare_3		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_4_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_4_cmd	BOOL	-	1	-	Spare_4		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_5_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_5_cmd	BOOL	-	1	-	Spare_5		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_6_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_6_cmd	BOOL	-	1	-	Spare_6		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_7_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_7_cmd	BOOL	-	1	-	Spare_7		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_8_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_8_cmd	BOOL	-	1	-	Spare_8		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_9_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_9_cmd	BOOL	-	1	-	Spare_9		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Setpoint_Choise_Spare_10_cmd	Logic.Application	ELECTROLYZER_GVL		Setpoint_Choise_Spare_10_cmd	BOOL	-	1	-	Spare_10		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.H_V_CB_STATUS_OPEN	Logic.Application	ELECTROLYZER_GVL		H_V CB STATUS OPEN	BOOL	-	1	-	H.V CB STATUS OPEN		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.H_V_CB_STATUS_CLOSED	Logic.Application	ELECTROLYZER_GVL		H_V CB STATUS CLOSED	BOOL	-	1	-	H.V CB STATUS CLOSED		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.BOOL_spare_13	Logic.Application	ELECTROLYZER_GVL		BOOL spare 13	BOOL	-	1	-	Reserved		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.BOOL_spare_14	Logic.Application	ELECTROLYZER_GVL		BOOL spare 14	BOOL	-	1	-	Reserved		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.BOOL_spare_15	Logic.Application	ELECTROLYZER_GVL		BOOL spare 15	BOOL	-	1	-	Reserved		W	PROFINET	9	HOLDING REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.MAIN_S0_AT_027_cmd	Logic.Application	ELECTROLYZER_GVL	MAIN	S0_AT_027_cmd	REAL	pH	1	-	Fresh water outlet pH	NEW TAG NAME UPDATED	W	PROFINET	10 - 11	HOLDING REGISTER	REAL
Logic.Application.ELECTROLYZER_GVL.MAIN_S0_TT_024_cmd	Logic.Application	ELECTROLYZER_GVL	MAIN	S0_TT_024_cmd	REAL	°C	1	-	Fresh water outlet temperature	NEW TAG NAME UPDATED	W	PROFINET	12 - 13	HOLDING REGISTER	REAL
Logic.Application.ELECTROLYZER_GVL.MAIN_S0_AT_026_cmd	Logic.Application	ELECTROLYZER_GVL	MAIN	S0_AT_026_cmd	REAL	ppm CaCO3	1	-	Fresh water outlet total hardness	NEW TAG NAME UPDATED	W	PROFINET	14 - 15	HOLDING REGISTER	REAL
Logic.Application.ELECTROLYZER_GVL.MAIN_S0_AT_024_cmd	Logic.Application	ELECTROLYZER_GVL	MAIN	S0_AT_024_cmd	REAL	uS/cm	1	-	Fresh water conductivity from A-50007A/B	NEW TAG NAME UPDATED	W	PROFINET	16 - 17	HOLDING REGISTER	REAL
Logic.Application.ELECTROLYZER_GVL.STATUS_MINOR_FAULT	Logic.Application	ELECTROLYZER_GVL	STATUS	MINOR_FAULT	BOOL	-	1	-	AT LEAST ONE "MINOR_FAULT" PRESENT (Warning) ; 1= Fault exist		R	PROFINET	0 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.STATUS_MAJOR_FAULT	Logic.Application	ELECTROLYZER_GVL	STATUS	MAJOR_FAULT	BOOL	-	1	-	AT LEAST ONE "DEFAUT MAJEUR" PRESENT ; 1= Fault exist		R	PROFINET	0 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.STATUS_SAFETY_FAULT	Logic.Application	ELECTROLYZER_GVL	STATUS	SAFETY_FAULT	BOOL	-	1	-	AT LEAST ONE "DEFAUT DE SECURITE" PRESENT ; 1= Fault exist		R	PROFINET	0 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.STATUS_SSI	Logic.Application	ELECTROLYZER_GVL	STATUS	SSI	BOOL	-	1	-	FIRE CENTRAL alarm ; 1= Aalrm exist		R	PROFINET	0 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.STATUS_STATUS_ELECTROLYZER	Logic.Application	ELECTROLYZER_GVL	STATUS	STATUS_ELECTROLYZER	INT16	-	1		LOCAL MODE 0 : MISE POWER ON (POWER ON) 1 : MODE STOP (STOP) 2 : MODE IDLE (IDLE) 3 : MODE STAND BY 4 : MODE PRODUCTION 5 : MODE MANUEL 6 : MODE Stop in progress 7. MODE Start in progress 8. MODE IDLE in progress 9. STAND BY in progress 10. Standby DISTANT MODE 11 : MISE POWER ON (POWER ON) 12 : MODE STOP (STOP) 13 : MODE IDLE (IDLE) 14 : MODE STANDY BY (STANDY BY) 15 : MODE PRODUCTION 16 : MODE Stop in progress 17. MODE Start in progress 18. MODE IDLE in progress 19. STAND BY in progress		R	PROFINET	1	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.STATUS_WATCHDOG	Logic.Application	ELECTROLYZER_GVL	STATUS	WATCHDOG	INT16	-	1	-	COMMUNICATION CONTROL		R	PROFINET	2	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.FSH_640	Logic.Application	ELECTROLYZER_GVL		FSH_640	BOOL	-	1	-	FLOW SWITCH HIGH DN50 (1.300 ATEX SIL DEGREASED		R	PROFINET	3 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_T2	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_T2	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_1_1	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_1_1	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_1_2	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_1_2	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_1_3	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_1_3	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_1_4	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_1_4	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_2	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_2	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_GS_64_3	Logic.Application	ELECTROLYZER_GVL	PROCESS	GS_64_3	BOOL	-	1	-	TBD-Limit switch		R	PROFINET	3 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSH_600	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSH_600	BOOL	-	1	-	High level in ST600		R	PROFINET	3 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSH_610	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSH_610	BOOL	-	1	-	Water level CS610 HH		R	PROFINET	3 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSH_630	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSH_630	BOOL	-	1	-	Water level CS630 H		R	PROFINET	3 (Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSH_631	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSH_631	BOOL	-	1	-	Water level CS 630 HH		R	PROFINET	3 (Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSH_640	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSH_640	BOOL	-	1	-	DG640 Level Switch - HH		R	PROFINET	3 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_600	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_600	BOOL	-	1	-	Low level ST-600		R	PROFINET	3 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_610	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_610	BOOL	-	1	-	Water level CS610 L		R	PROFINET	3 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_611	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_611	BOOL	-	1	-	Water level CS610 LL		R	PROFINET	3 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_620	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_620	BOOL	-	1	-	Vey low level ST-620		R	PROFINET	4 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_630	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_630	BOOL	-	1	-	Vey low level ST-630		R	PROFINET	4 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_640	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_640	BOOL	-	1	-	level ST-640 Low		R	PROFINET	4 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_LSL_641	Logic.Application	ELECTROLYZER_GVL	PROCESS	LSL_641	BOOL	-	1	-	level ST-640 LL		R	PROFINET	4 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Transformer_DGPT2_REED_Fault	Logic.Application	ELECTROLYZER_GVL		Transformer DGPT2 REED Fault	BOOL	-	1	-	Transformer DGPT2 REED Fault		W	PROFINET	4 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Transformer_DGPT2_PRESSURE_Fault	Logic.Application	ELECTROLYZER_GVL		Transformer DGPT2 PRESSURE Fault	BOOL	-	1	-	Transformer DGPT2 PRESSURE Fault		W	PROFINET	4(Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Transformer_DGPT2_Temperature_T1_ALARM	Logic.Application	ELECTROLYZER_GVL		Transformer DGPT2 Temperature T1 ALARM	BOOL	-	1	-	Transformer DGPT2 Temperature (T1) ALARM		W	PROFINET	4 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.Transformer_DGPT2_Temperature_T2_FAULT	Logic.Application	ELECTROLYZER_GVL		Transformer DGPT2 Temperature T2 FAULT	BOOL	-	1	-	Transformer DGPT2 Temperature (T2) FAULT		W	PROFINET	4(Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.RECTIFIER_1_MAIN_CB_TRIP	Logic.Application	ELECTROLYZER_GVL		RECTIFIER 1 MAIN CB TRIP	BOOL	-	1	-	RECTIFIER 1 MAIN CB ' TRIP'		W	PROFINET	4 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.RECTIFIER_2_MAIN_CB_TRIP	Logic.Application	ELECTROLYZER_GVL		RECTIFIER 2 MAIN CB TRIP	BOOL	-	1	-	RECTIFIER 2 MAIN CB ' TRIP'		W	PROFINET	4 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.RECTIFIER_1_MAIN_CB_OPEN	Logic.Application	ELECTROLYZER_GVL		RECTIFIER 1 MAIN CB OPEN	BOOL	-	1	-	RECTIFIER 1 MAIN CB OPEN		W	PROFINET	4 (Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.RECTIFIER_1_MAIN_CB_CLOSED	Logic.Application	ELECTROLYZER_GVL		RECTIFIER 1 MAIN CB CLOSED	BOOL	-	1	-	RECTIFIER 1 MAIN CB CLOSED		W	PROFINET	4(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.RECTIFIER_2_MAIN_CB_OPEN	Logic.Application	ELECTROLYZER_GVL		RECTIFIER 2 MAIN CB OPEN	BOOL	-	1	-	RECTIFIER 2 MAIN CB OPEN		W	PROFINET	4(Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.RECTIFIER_2_MAIN_CB_CLOSED	Logic.Application	ELECTROLYZER_GVL		RECTIFIER 2 MAIN CB CLOSED	BOOL	-	1	-	RECTIFIER 2 MAIN CB CLOSED		W	PROFINET	4 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_Water_request	Logic.Application	ELECTROLYZER_GVL	PROCESS	Water_request	BOOL	-	1	-	Water_Request		W	PROFINET	4(Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_Setpoint_Choise_Spare_12_cmd	Logic.Application	ELECTROLYZER_GVL	PROCESS	Setpoint_Choise_Spare_12_cmd	BOOL	-	1	-	Spare_12		W	PROFINET	4 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.PROCESS_Setpoint_Choise_Spare_5_2_cmd	Logic.Application	ELECTROLYZER_GVL	PROCESS	Setpoint_Choise_Spare_5_2_cmd	INT16	-	1	-	Spare_5_2		W	PROFINET	5	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_RETURN_FLOW_SETPOINT	Logic.Application	ELECTROLYZER_GVL	PROCESS	RETURN FLOW SETPOINT	INT16	-	1	50-500	VALUE FLOW SETPOINT CLIENT (FLOW SETPOINT)		R	PROFINET	6	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_FT630_Ratio	Logic.Application	ELECTROLYZER_GVL	PROCESS	FT630_Ratio	INT16	%	1	-	ELECTROLYSE OUTLET HYDROGENE FLOW		R	PROFINET	7	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT630	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT630	INT16	BARG	1	-	PRESSURE IN THE ELECTROLYZER (H2)		R	PROFINET	8	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT610	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT610	INT16	BARG	1	-	PRESSURE IN THE ELECTROLYSER (O2)		R	PROFINET	9	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_CT_P_600	Logic.Application	ELECTROLYZER_GVL	PROCESS	CT_P_600	INT16	µS/cm	1	-	CONDUCTIVITIMER WATER O2 SIDE		R	PROFINET	10	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_CT_P_620	Logic.Application	ELECTROLYZER_GVL	PROCESS	CT_P_620	INT16	µS/cm	1	-	CONDUCTIVITIMER WATER H2 SIDE		R	PROFINET	11	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_IM_001	Logic.Application	ELECTROLYZER_GVL	PROCESS	IM_001	INT16	A	1		CURRENT output of Rectifer 1		R	PROFINET	12	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_100	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_100	INT16	V	1	-	VOLTAGE OUTPUT of Rectifier 1		R	PROFINET	13	INPUT REGISTER	INT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.PROCESS_IM_002	Logic.Application	ELECTROLYZER_GVL	PROCESS	IM_002	INT16	A	1	-	CURRENT output of Rectifier 2		R	PROFINET	14	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_102	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_102	INT16	V	1	-	VOLTAGE OUTPUT of Rectifier 2		R	PROFINET	15	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT200	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT200	INT16	°C	1	-	TEMPERATURE TRANSMITTER THERMAL SKID		R	PROFINET	16	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT201	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT201	INT16	°C	1	-	TEMPERATURE TRANSMITTER THERMAL SKID		R	PROFINET	17	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_202A	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_202A	INT16	°C	1	-	TEMPERATURE TRANSMITTER 20/80 DEG, ATEX DEGREASED		R	PROFINET	18	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_2028	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_2028	INT16	°C	1	-	TEMPERATURE TRANSMITTER 20/80 DEG, ATEX DEGREASED		R	PROFINET	19	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT400	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT400	INT16	°C	1	-	TEMPERATURE TRANSMITTER WATER CHILLER		R	PROFINET	20	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT401	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT401	INT16	°C	1	-	TEMPERATURE TRANSMITTER WATER CHILLER		R	PROFINET	21	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT1000	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT1000	INT16	°C	1	-	TEMPERATURE TRANSMITTER 20/80 DEG		R	PROFINET	22	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT1001	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT1001	INT16	°C	1	-	TEMPERATURE TRANSMITTER 20/80 DEG		R	PROFINET	23	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT1002	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT1002	INT16	°C	1	-	TEMPERATURE TRANSMITTER 20/80 DEG		R	PROFINET	24	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT1003	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT1003	INT16	°C	1	-	TEMPERATURE TRANSMITTER 20/80 DEG		R	PROFINET	25	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_LT300	Logic.Application	ELECTROLYZER_GVL	PROCESS	LT300	INT16	%	1	-	Level Transmitter,Package PWT-300		R	PROFINET	26	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_LT600	Logic.Application	ELECTROLYZER_GVL	PROCESS	LT600	INT16	%	1	-	SEPARATOR TANK WATER LEVEL O2 SIDE		R	PROFINET	27	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_LT620	Logic.Application	ELECTROLYZER_GVL	PROCESS	LT620	INT16	%	1	-	SEPARATOR TANK WATER LEVEL SIDE H2		R	PROFINET	28	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT900	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT900	INT16	BARG	1	-	NITROGEN NETWORK PRESSURE		R	PROFINET	29	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_AHD1000	Logic.Application	ELECTROLYZER_GVL	PROCESS	AHD1000	INT16	%	1	-	QUANTITY OF HYDROGEN IN THE AMBIENT		R	PROFINET	30	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_AHD1001	Logic.Application	ELECTROLYZER_GVL	PROCESS	AHD1001	INT16	%	1	-	QUANTITY OF HYDROGEN IN THE AMBIENT		R	PROFINET	31	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_AHD_1002	Logic.Application	ELECTROLYZER_GVL	PROCESS	AHD_1002	INT16	% LIE	1	-	AMBIENT HYDROGEN DETECTOR 0.01%V/S 28M H2		R	PROFINET	32	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_AHD_1003	Logic.Application	ELECTROLYZER_GVL	PROCESS	AHD_1003	INT16	% LIE	1	-	AMBIENT HYDROGEN DETECTOR		R	PROFINET	33	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_HIOD610A	Logic.Application	ELECTROLYZER_GVL	PROCESS	HIOD610A	INT16	%	1	-	HYDROGEN MEASUREMENT IN OXYGEN		R	PROFINET	34	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_DPT800	Logic.Application	ELECTROLYZER_GVL	PROCESS	DPT800	INT16	ppmV	1	-	DEW POINT MEASUREMENT H2		R	PROFINET	35	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_OIHA800	Logic.Application	ELECTROLYZER_GVL	PROCESS	OIHA800	INT16	ppmV	1	-	OXYGEN MEASUREMENT IN HYDROGEN		R	PROFINET	36	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_Stack_operating_hours__h	Logic.Application	ELECTROLYZER_GVL	PROCESS	Stack operating hours _h	INT16	h	1	-	Stack operating hours (h)		R	PROFINET	37	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_Full_load_hours_stack__h	Logic.Application	ELECTROLYZER_GVL	PROCESS	Full load hours stack _h	INT16	h	1	-	Full load hours stack (h)		R	PROFINET	38	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_Total_power_consumption__W	Logic.Application	ELECTROLYZER_GVL	PROCESS	Total power consumption _W	INT16	W	1	-	Total power consumption (W)		R	PROFINET	39	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_Total_system_energy_consumption__Wh	Logic.Application	ELECTROLYZER_GVL	PROCESS	Total system energy consumption _Wh	INT16	Wh	1	-	Total system energy consumption (Wh)		R	PROFINET	40	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_Energy_consumption_stack__Wh	Logic.Application	ELECTROLYZER_GVL	PROCESS	Energy consumption stack _Wh	INT16	Wh	1	-	Energy consumption stack (Wh)		R	PROFINET	41	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT600_	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT600	INT16	°C	1	-	O2 SIDE STACKS INLET TEMPERATURE		R	PROFINET	42	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT601_A	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT601_A	INT16	°C	1	-	O2 SIDE STACK 1 OUTLET TEMPERATURE		R	PROFINET	43	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT602_B	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT602_B	INT16	°C	1	-	O2 SIDE STACK 2 OUTLET TEMPERATURE		R	PROFINET	44	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT603_C	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT603_C	INT16	°C	1	-	O2 SIDE STACK 3 OUTLET TEMPERATURE		R	PROFINET	45	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT604_D	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT604_D	INT16	°C	1	-	O2 SIDE STACK 4 OUTLET TEMPERATURE		R	PROFINET	46	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT605_E	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT605_E	INT16	°C	1	-	O2 SIDE STACK 5 OUTLET TEMPERATURE		R	PROFINET	47	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT606_F	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT606_F	INT16	°C	1	-	O2 SIDE STACK 6 OUTLET TEMPERATURE		R	PROFINET	48	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT607_G	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT607_G	INT16	°C	1	-	O2 SIDE STACK 7 OUTLET TEMPERATURE		R	PROFINET	49	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT608_H	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT608_H	INT16	°C	1	-	O2 SIDE STACK 8 OUTLET TEMPERATURE		R	PROFINET	50	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT620	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT620	INT16	°C	1	-	H2 SIDE STACKS INLET TEMPERATURE		R	PROFINET	51	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT621	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT621	INT16	°C	1	-	TEMPERATURE TRANSMITTER 0/120 DEG		R	PROFINET	52	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_FT_600	Logic.Application	ELECTROLYZER_GVL	PROCESS	FT_600	INT16	NM3/H	1	-	FLOW TRANSMITTER 200 M3/H H2O+O2 ATEX SIL DEGREASED		R	PROFINET	53	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_FT_620	Logic.Application	ELECTROLYZER_GVL	PROCESS	FT_620	INT16	NM3/H	1	-	FLOW TRANSMITTER 80 M3/H H2O+H2 ATEX DEGREASED		R	PROFINET	54	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_611	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_611	INT16	BARG	1	-	PRESSURE TRANSMITTER 16 BARG O2 ATEX SIL DEGREASED		R	PROFINET	55	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_612	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_612	INT16	BARG	1	-	PRESSURE TRANSMITTER 16 BARG O2 ATEX SIL DEGREASED		R	PROFINET	56	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_631	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_631	INT16	BARG	1	-	PRESSURE TRANSMITTER 40 BARG H2/N2 ATEX SIL DEGREASED		R	PROFINET	57	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_632	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_632	INT16	BARG	1	-	PRESSURE TRANSMITTER 40 BARG H2/N2 ATEX SIL DEGREASED		R	PROFINET	58	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_633	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_633	INT16	BARG	1	-	PRESSURE TRANSMITTER 40 BARG H2/N2 ATEX SIL DEGREASED		R	PROFINET	59	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_910	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_910	INT16	BARG	1	-	PRESSURE TRANSMITTER 40 BARG H2/N2 ATEX SIL DEGREASED		R	PROFINET	60	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_920	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_920	INT16	BARG	1	-	PRESSURE TRANSMITTER 40 BARG H2/N2 ATEX SIL DEGREASED		R	PROFINET	61	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_DPRT_1000	Logic.Application	ELECTROLYZER_GVL	PROCESS	DPRT_1000	INT16	BARG	1	-	DIFFERENTIAL PRESSURE TRANSMITTER		R	PROFINET	62	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_PT_64_1	Logic.Application	ELECTROLYZER_GVL	PROCESS	PT_64_1	INT16	BARG	1	-	HPU AQUAGAS Pressure transmitter , Package HPP-700		R	PROFINET	63	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_60_1	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_60_1	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	64	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_60_2	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_60_2	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	65	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_61_1	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_61_1	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	67	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_64_5	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_64_5	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	68	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_64_6	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_64_6	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	69	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_64_7	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_64_7	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	70	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_TT_64_8	Logic.Application	ELECTROLYZER_GVL	PROCESS	TT_64_8	INT16	°C	1	-	HPU AQUAGAS Temperature transmitter,Package HPP-700		R	PROFINET	71	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_001	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_001	INT16	V	1	-	Voltage sensor of stack 1		R	PROFINET	72	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_002	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_002	INT16	V	1	-	Voltage sensor of stack 2		R	PROFINET	73	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_003	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_003	INT16	V	1	-	Voltage sensor of stack 3		R	PROFINET	74	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_004	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_004	INT16	V	1	-	Voltage sensor of stack 4		R	PROFINET	75	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_005	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_005	INT16	V	1	-	Voltage sensor of stack 5		R	PROFINET	76	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_006	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_006	INT16	V	1	-	Voltage sensor of stack 6		R	PROFINET	77	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_007	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_007	INT16	V	1	-	Voltage sensor of stack 7		R	PROFINET	78	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_VM_008	Logic.Application	ELECTROLYZER_GVL	PROCESS	VM_008	INT16	V	1	-	Voltage sensor of stack 8		R	PROFINET	79	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_Selector_Swtch_mode	Logic.Application	ELECTROLYZER_GVL	PROCESS	Selector Swtch mode	INT16	-	1	0-2	0: Maintenance 1: Remote 2: Maintenance		R	PROFINET	80	INPUT REGISTER	INT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.PROCESS_HIOD610B	Logic.Application	ELECTROLYZER_GVL	PROCESS	HIOD610B	INT16	%	1	-	HYDROGEN MEASUREMENT IN OXYGEN		R	PROFINET	81	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_HIOD610C	Logic.Application	ELECTROLYZER_GVL	PROCESS	HIOD610C	INT16	%	1	-	HYDROGEN MEASUREMENT IN OXYGEN		R	PROFINET	82	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_3	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_3	INT16	-	1	-	SPARE3	NEW SPARES	R	PROFINET	83	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_4	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_4	INT16	-	1	-	SPARE4	NEW SPARES	R	PROFINET	84	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_5	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_5	INT16	-	1	-	SPARE5	NEW SPARES	R	PROFINET	85	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_6	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_6	INT16	-	1	-	SPARE6	NEW SPARES	R	PROFINET	86	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_7	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_7	INT16	-	1	-	SPARE7	NEW SPARES	R	PROFINET	87	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_8	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_8	INT16	-	1	-	SPARE8	NEW SPARES	R	PROFINET	88	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_9	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_9	INT16	-	1	-	SPARE9	NEW SPARES	R	PROFINET	89	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_10	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_10	INT16	-	1	-	SPARE10	NEW SPARES	R	PROFINET	90	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_11	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_11	INT16	-	1	-	SPARE11	NEW SPARES	R	PROFINET	91	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_12	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_12	INT16	-	1	-	SPARE12	NEW SPARES	R	PROFINET	92	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.PROCESS_SPARE_13	Logic.Application	ELECTROLYZER_GVL	PROCESS	SPARE_13	INT16	-	1	-	SPARE13	NEW SPARES	R	PROFINET	93	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_AQA_1010_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	AQA_1010_ISO22	BOOL	-	1	-	FIRE AND GAS DETECTION - FIRE - SSI-1000		R	PROFINET	94 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_BZ_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	BZ_001_ISO22	BOOL	-	1	-	PLC FAULT - ERR - PLC-001		R	PROFINET	94 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_CAHH_610_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	CAHH_610_C63	BOOL	-	1	-	VERY HIGH H2 CONCENTRATION IN O2 - HH - HIOD-610A/B/C 2oo3		R	PROFINET	94(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_CAHH_1000_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	CAHH_1000_ISO22	BOOL	-	1	-	VERY HIGH HYDROGEN CONCENTRATION IN AIR - HH - AHD-1000		R	PROFINET	94(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_CAHH_1001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	CAHH_1001_ISO22	BOOL	-	1	-	VERY HIGH HYDROGEN CONCENTRATION IN AIR - HH - AHD-1001		R	PROFINET	94 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_CAHH_1002_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	CAHH_1002_C63	BOOL	-	1	-	VERY HIGH HYDROGEN CONCENTRATION IN AIR - HH - AHD-1002		R	PROFINET	94 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_CAHH_1003__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	CAHH_1003 _ISO22	BOOL	-	1	-	VERY HIGH HYDROGEN CONCENTRATION IN AIR - HH - AHD-1003		R	PROFINET	94 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_CAHH_1004_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	CAHH_1004_ISO22	BOOL	-	1	-	VERY HIGH HYDROGEN CONCENTRATION IN AIR - HH - AHD-1004		R	PROFINET	94 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_FAHH_640_ISO22_500	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	FAHH_640_ISO22_500	BOOL	-	1	-	DEBIT EQUILIBRAGE ELEVEE - FSH-640 - HH		R	PROFINET	94 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_FAHH_800_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	FAHH_800_ISO22	BOOL	-	1	-	VERY HIGH H2 ANALYSIS FLOWRATE - HH - FICV-800		R	PROFINET	94 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_FALL_600_ISO22_500	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	FALL_600_ISO22_500	BOOL	-	1	-	VERY LOW FLOW ON ANODIC CIRCULATION LOOP - LL - FT-600		R	PROFINET	94 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_FALL_610_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	FALL_610_ISO22	BOOL	-	1	-	VERY LOW O2 ANALYSIS FLOWRATE - LL - FICV-610A/B/C 2oo3		R	PROFINET	94 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_GGA_604_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	GGA_604_ISO22	BOOL	-	1	-	HV-604 VALVE CLOSED ON ANODIC LOOP - ERR - ZIO-604		R	PROFINET	94 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_GGA_605_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	GGA_605_ISO22	BOOL	-	1	-	HV-605 VALVE CLOSED ON ANODIC LOOP - ERR - ZIO-605		R	PROFINET	94 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_GGA_623_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	GGA_623_ISO22	BOOL	-	1	-	HV-623 VALVE CLOSED ON CATHODIC LOOP - ERR - ZIO-623		R	PROFINET	94 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_GGA_624_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	GGA_624_ISO22	BOOL	-	1	-	HV-624VALVE CLOSED ON CATHODIC LOOP - ERR - ZIO-624		R	PROFINET	94 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_LAHH_631_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	LAHH_631_ISO22	BOOL	-	1	-	VERY HIGH LEVEL CS-630 - HH - LSH-631		R	PROFINET	95 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_LALL_611_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	LALL_611_ISO22	BOOL	-	1	-	VERY LOW LEVEL CS-610 - LL - LSL-611		R	PROFINET	95 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_LASHH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	LASHH_600_ISO22	BOOL	-	1	-	VERY HIGH LEVEL ST600 (SIS) - HH - LSH-600		R	PROFINET	95(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_LASLL_600_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	LASLL_600_C63	BOOL	-	1	-	VERY LOW LEVEL ST600 (SIS) - LL - LSL-600		R	PROFINET	95(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_LASLL_620_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	LASLL_620_C63	BOOL	-	1	-	VERY LOW LEVEL ST620 (SIS) - LL - LSL-620		R	PROFINET	95 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_LASLL_500_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	LASLL_500_C63	BOOL	-	1	-	VERY LOW DRAIN WATER LEVEL ON HYDROGEN VENT - LSLL-500		R	PROFINET	95 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAR_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAR_001_ISO22	BOOL	-	1	-	CUSTOMER EMERGENCY STOP - AUC-001		R	PROFINET	95 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_001_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-001		R	PROFINET	95 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_002_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_002_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-002		R	PROFINET	95 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_003_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_003_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-003		R	PROFINET	95 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_004_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_004_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-004		R	PROFINET	95 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_005_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_005_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-005		R	PROFINET	95 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_006_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_006_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-006		R	PROFINET	95 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_OAZ_007_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	OAZ_007_ISO22	BOOL	-	1	-	EMERGENCY SHUTDOWN BUTTON - ESD-007		R	PROFINET	95 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PAHH_600A_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PAHH_600A_C63	BOOL	-	1	-	VERY HIGH PRESSURE DOWNSTREAM OF CP600A - HH - PT-600A		R	PROFINET	95 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PAHH_600B_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PAHH_600B_C63	BOOL	-	1	-	VERY HIGH PRESSURE DOWNSTREAM OF CP600B - HH - PT-600B		R	PROFINET	95 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PAHH_611_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PAHH_611_ISO22	BOOL	-	1	-	VERY HIGH PRESSURE IN OXYGEN SEPARATOR ST-600 (SIS)- HH - PT-611		R	PROFINET	96 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PAHH_620A_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PAHH_620A_C63	BOOL	-	1	-	VERY HIGH PRESSURE DOWNSTREAM OF CP620A - HH - PT-620A		R	PROFINET	96 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PAHH_620B_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PAHH_620B_C63	BOOL	-	1	-	VERY HIGH PRESSURE DOWNSTREAM OF CP620B - HH - PT-620B		R	PROFINET	96(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PAHH_631_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PAHH_631_ISO22	BOOL	-	1	-	VERY HIGH PRESSURE IN HYDROGEN SEPARATOR ST-620 (SIS)- HH - PT-631		R	PROFINET	96(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PALL_611_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PALL_611_ISO22	BOOL	-	1	-	LOW PRESSURE ON ANODIC SIDE - LL - PT-611		R	PROFINET	96 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PALL_631_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PALL_631_ISO22	BOOL	-	1	-	LOW PRESSURE ON CATHODIC SIDE - LL - PT-631		R	PROFINET	96 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PDAHH_002_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PDAHH_002_ISO22	BOOL	-	1	-	VERY HIGH DIFFERENTIAL PRESSURE - HH - PT631-PT611		R	PROFINET	96 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PDALL_002_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PDALL_002_ISO22	BOOL	-	1	-	VERY LOW DIFFERENTIAL PRESSURE - LL - PT631-PT611		R	PROFINET	96 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_PKA_633_C63	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	PKA_633_C63	BOOL	-	1	-	LEAKAGE ON CLIENT LINE - CLOSING PV635 - PT-633		R	PROFINET	96 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_1	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_1	INT16	-	1	-	3GDK41 SAF MODULE		R	PROFINET	96 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_2	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_2	INT16	-	1	-	HIGH PRESSURE IN OXYGEN SEPARATOR ST-600 (SIS) OPENING PV-610 - H - PT-611		R	PROFINET	96 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_3	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_3	BOOL	-	1	-	HIGH PRESSURE IN HYDROGEN SEPARATOR ST-620 (SIS) OPENING PV-630 - H - PT-631		R	PROFINET	96 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_4	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_4	BOOL	-	1	-	VERY LOW LEVEL DG-640 (SIS) - LL - LSL-641		R	PROFINET	96 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_5	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_5	BOOL	-	1	-	SPARE		R	PROFINET	96 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_6	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_6	BOOL	-	1	-	SPARE		R	PROFINET	96 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelliockSafetyFaults_Spare_7	Logic.Application	ELECTROLYZER_GVL	IntelliockSafetyFaults	Spare_7	BOOL	-	1	-	SPARE		R	PROFINET	96 (Bit Reference 15)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.IntelockSafetyFaults_ALARM_CODE_4	Logic.Application	ELECTROLYZER_GVL	IntelockSafetyFaults	ALARM_CODE_4	INT16	-	1	-	SPARE		R	PROFINET	97	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.IntelockSafetyFaults_ALARM_CODE_5	Logic.Application	ELECTROLYZER_GVL	IntelockSafetyFaults	ALARM_CODE_5	INT16	-	1	-	SPARE		R	PROFINET	98	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_JGA_007_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	JGA_007_C63	BOOL				TRANSFORMER GAS PRESSURE TEMPERATURE DETECTION FAULT		R	PROFINET	99 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_ACA_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	ACA_001_ISO22	BOOL				WAITING TOO LONG BEFORE STARTING RECTIFIER - HH - REC-001		R	PROFINET	99 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_ACA_002_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	ACA_002_ISO22	BOOL				WAITING TOO LONG BEFORE STARTING RECTIFIER - HH - REC-002		R	PROFINET	99(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_1005	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_1005	BOOL				DEFAULT COMMUNICATION PLC ELOGEN / RECTIFIER		R	PROFINET	99(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_1006	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_1006	BOOL				COMMUNICATION FAULT PLC ELOGEN / HVAC		R	PROFINET	99 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_001_ISO22	BOOL				RECTIFIER FAULT - ERR - REC-001		R	PROFINET	99 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_002_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_002_ISO22	BOOL				RECTIFIER FAULT - ERR - REC-002		R	PROFINET	99 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_052	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_052	BOOL	-	1	-	CUSTOMERELOGEN COMMUNICATION SWITCH FAULT,REMOTE MODE...		R	PROFINET	99 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_1001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_1001_ISO22	BOOL	-	1	-	FIRE CONTROL PANEL FAULT - ERR - SSI-1000		R	PROFINET	99 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_1003	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_1003	BOOL	-	1	-	COMMUNICATION FAULT PLC ELOGEN / WTP		R	PROFINET	99 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_EIAHH_001_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	EIAHH_001_C63	BOOL	-	1	-	HIGH 230V-NETWORK VOLTAGE - HH - PQ-001		R	PROFINET	99 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_EIAHH_002_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	EIAHH_002_C63	BOOL	-	1	-	HIGH 400V-NETWORK VOLTAGE - HH - PQ-002		R	PROFINET	99 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_AQA_1001_ISO22_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	AQA_1001_ISO22_1	BOOL	-	1	-	FIRE CONTROL PANEL FAULT - ERR - SSI-1000		R	PROFINET	99 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_ZIO_604	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	ZIO_604	BOOL	-	1	-	HV-604 VALVE CLOSED ON ANODIC LOOP - ERR - ZIO-604		R	PROFINET	99 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_ZIO_623	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	ZIO_623	BOOL	-	1	-	HV-623 VALVE CLOSED ON ANODIC LOOP - ERR - ZIO-623		R	PROFINET	99 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_ZIO_605	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	ZIO_605	BOOL	-	1	-	HV-605 VALVE CLOSED ON ANODIC LOOP - ERR - ZIO-605		R	PROFINET	99 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_ZIO_624	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	ZIO_624	BOOL	-	1	-	HV-624 VALVE CLOSED ON ANODIC LOOP - ERR - ZIO-624		R	PROFINET	100 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_SPAREEEE	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	SPAREEEE	BOOL	-	1	-	SPARE		R	PROFINET	100 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_FALL_620_ISO22_500	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	FALL_620_ISO22_500	BOOL	-	1	-	VERY LOW FLOW ON CATHODIC CIRCULATION LOOP - LL - FT-620		R	PROFINET	100(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_FSA_64_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	FSA 64_1	BOOL	-	1	-	NO SIGNAL - ERR - FC 64.1		R	PROFINET	100(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_FSA_64_1_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	FSA 64_1 LL	BOOL	-	1	-	GAS INLET FLOW VERY LOW - LL - FC 64.1		R	PROFINET	100 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_1_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_1 HH	BOOL	-	1	-	VALVE 64-V4.1 NOT CLOSED - HH - GS 64.1.1		R	PROFINET	100 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_1_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_1 LL	BOOL	-	1	-	VALVE 64-V4.1 NOT OPEN - LL GS 64.1.1		R	PROFINET	100 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_2_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_2 HH	BOOL	-	1	-	VALVE 64-V4.2 NOT CLOSED - HH - GS 64.1.2		R	PROFINET	100 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_2_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_2 LL	BOOL	-	1	-	VALVE 64-V4.2 NOT OPEN - LL - GS 64.1.2		R	PROFINET	100 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_3_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_3 HH	BOOL	-	1	-	VALVE 64-V4.3 NOT CLOSED - HH - GS 64.1.3		R	PROFINET	100 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_3_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_3 LL	BOOL	-	1	-	VALVE 64-V4.3 NOT OPEN - LL - GS 64.1.3		R	PROFINET	100 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_4_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_4 HH	BOOL	-	1	-	VALVE 64-V4.4 NOT CLOSED - HH - GS 64.1.4		R	PROFINET	100 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_1_4_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_1_4 LL	BOOL	-	1	-	VALVE 64-V4.4 NOT OPEN - LL GS 64.1.4		R	PROFINET	100 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_2_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_2 HH	BOOL	-	1	-	VALVE 64-V5 NOT CLOSED - HH - GS 64.2		R	PROFINET	100 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_2_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_2 LL	BOOL	-	1	-	VALVE 64-V5 NOT OPEN - LL - GS 64.2		R	PROFINET	100 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_3_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_3 HH	BOOL	-	1	-	VALVE 64-V7 NOT CLOSED - HH - GS 64.3		R	PROFINET	100 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_3_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_3 LL	BOOL	-	1	-	VALVE 64-V7 NOT OPEN - LL - GS 64.3		R	PROFINET	101 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_T2_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_T2 HH	BOOL	-	1	-	VALVE 64-T2 NOT OPEN - HH - GS 64.T.2		R	PROFINET	101 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_GSA_64_T2_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	GSA 64_T2 LL	BOOL	-	1	-	VALVE 64-T2 NOT CLOSED - LL GS 64.T.2		R	PROFINET	101(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_IAHH_001__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	IAHH_001 _ISO22	BOOL	-	1	-	HIGH CURRENT RECTIFIER - HH - IM-001		R	PROFINET	101(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_IAHH_002__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	IAHH_002 _ISO22	BOOL	-	1	-	HIGH CURRENT RECTIFIER - HH - IM-002		R	PROFINET	101 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_IDAHH_001__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	IDAHH_001 _ISO22	BOOL	-	1	-	HIGH RECTIFIER CURRENT DEVIATION - HH - INTERNAL RECTIFIERCURRENT PROBE - IM-001		R	PROFINET	101 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_IDAHH_002__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	IDAHH_002 _ISO22	BOOL	-	1	-	HIGH RECTIFIER CURRENT DEVIATION - HH - INTERNAL RECTIFIERCURRENT PROBE - IM-002		R	PROFINET	101 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_JGA_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	JGA_001_ISO22	BOOL	-	1	-	LOSS OF 400 VAC POWER SUPPLY - ERR		R	PROFINET	101 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K01_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K01 HH	BOOL	-	1	-	K01 AUX. CONTACT = 1 - HH - K01		R	PROFINET	101 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K01_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K01 LL	BOOL	-	1	-	K01 AUX. CONTACT = 1 - LL - K01		R	PROFINET	101 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K02_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K02 HH	BOOL	-	1	-	K02 AUX. CONTACT = 1 - HH - K02		R	PROFINET	101 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K02_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K02 LL	BOOL	-	1	-	K02 AUX. CONTACT = 0 - LL - K02		R	PROFINET	101 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K03_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K03 HH	BOOL	-	1	-	DEOXO TRACE HEATER HE 61.1, K03 NOT ACTIVATED - HH - K03		R	PROFINET	101 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K03_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K03 LL	BOOL	-	1	-	DEOXO TRACE HEATER HE 61.1, K03 NOT ACTIVATED - LL - K03		R	PROFINET	101 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K04_HH	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K04 HH	BOOL	-	1	-	DEOXO TRACE HEATER HE 61.1, K03 NOT ACTIVATED - HH - K04		R	PROFINET	101 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_KSA_K04_LL	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	KSA K04 LL	BOOL	-	1	-	DEOXO TRACE HEATER HE 61.1, K03 NOT ACTIVATED - LL - K04		R	PROFINET	101 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_001__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_001 _ISO22	BOOL	-	1	-	WATER LEAK DETECTION - HH - WLD-001		R	PROFINET	102 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_002__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_002 _ISO22	BOOL	-	1	-	WATER LEAK DETECTION - HH - WLD-002		R	PROFINET	102 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_003__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_003 _ISO22	BOOL	-	1	-	WATER LEAK DETECTION - HH - WLD-003		R	PROFINET	102(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_004__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_004 _ISO22	BOOL	-	1	-	WATER LEAK DETECTION - HH - WLD-004		R	PROFINET	102(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_005__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_005 _ISO22	BOOL	-	1	-	WATER LEAK DETECTION - HH - WLD-005		R	PROFINET	102 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_006__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_006 _ISO22	BOOL	-	1	-	WATER LEAK DETECTION - HH - WLD-006		R	PROFINET	102 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_600__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_600 _ISO22	BOOL	-	1	-	VERY HIGH LEVEL ST-600 - HH - LT-600		R	PROFINET	102 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LAHH_620__ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LAHH_620 _ISO22	BOOL	-	1	-	VERY HIGH LEVEL ST-620 - HH - LT-620		R	PROFINET	102 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaults_LALL_300__C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaults	LALL_300 _C63	BOOL	-	1	-	VERY LOW LEVEL WTP-300 - LL - LT-300		R	PROFINET	102 (Bit Reference 8)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_LASHH_500__C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	LASHH_500 _C63	BOOL	-	1	-	VERY HIGH LEVEL WATER DRAIN ON VENT - LSHH-500		R	PROFINET	102 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_001__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_001 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-001		R	PROFINET	102 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_002__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_002 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-002		R	PROFINET	102 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_003__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_003 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-003		R	PROFINET	102 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_004__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_004 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-004		R	PROFINET	102 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_005__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_005 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-005		R	PROFINET	102 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_006__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_006 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-006		R	PROFINET	102 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_007__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_007 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-007		R	PROFINET	103 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_008__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_008 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-008		R	PROFINET	103 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_009__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_009 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-009		R	PROFINET	103(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_010__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_010 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-0010		R	PROFINET	103(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_011__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_011 _ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-0011		R	PROFINET	103 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_OAS_012 ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	OAS_012 ISO22	BOOL	-	1	-	ELECTROLYSER DOOR OPENED - DS-0012		R	PROFINET	103 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PALL_1002_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PALL_1002_C63	BOOL	-	1	-		NEW	R	PROFINET	103 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PALL_1003_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PALL_1003_C63	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PALL_1006_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PALL_1006_C63	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SPAREEE_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SPAREEE_1	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SPAREEE_2	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SPAREEE_2	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SPAREEE_3	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SPAREEE_3	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SPAREEE_4	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SPAREEE_4	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SPAREEE_5	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SPAREEE_5	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PAHH_150__ISO22_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PAHH_150 _ISO22_1	BOOL				SPARE	NEW	R	PROFINET	103 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PAHH_610 _ISO22_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PAHH_610 _ISO22_1						NEW	R	PROFINET	103 (Bit Reference 15)		BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PAHH_630__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PAHH_630 _ISO22	BOOL	-	1	-	VERY HIGH PRESSURE IN HYDROGEN SEPARATOR ST-620 (BPCS)- HH - PT-630		R	PROFINET	104 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PAHH_900__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PAHH_900 _ISO22	BOOL	-	1	-	LEAK ON OXYGEN INERTING LINE - HH - PT-900		R	PROFINET	104 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PAHH_910__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PAHH_910 _ISO22	BOOL	-	1	-	VERY HIGH NITROGEN PRESSURE - HH - PT-910		R	PROFINET	104(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PAHH_920__ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PAHH_920 _ISO22	BOOL	-	1	-	LEAK ON HYDROGEN INERTING LINE - HH - PT-920		R	PROFINET	104(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PALL_150_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PALL_150_ISO22	BOOL	-	1	-	VERY LOW INSTRUMENT AIR PRESSURE - LL - PT-150		R	PROFINET	104 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PALL_910_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PALL_910_ISO22	BOOL	-	1	-	VERY LOW NITROGEN PRESSURE - LL - PT910		R	PROFINET	104 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PDAHH_001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PDAHH_001_ISO22	BOOL	-	1	-	VERY IMPORTANT DIFFERENTIAL PRESSURE - HH - PT630-PT610		R	PROFINET	104 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PDALL_001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PDALL_001_ISO22	BOOL	-	1	-	IMPORTANT REVERSE DIFFERENTIAL PRESSURE - LL - PT630-PT610		R	PROFINET	104 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_600_ISO22	BOOL	-	1	-	ANODE TEMPERATURE INLET STACK VERY HIGH - HH - TT-600		R	PROFINET	104 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_7	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_7	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601A		R	PROFINET	104 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_6	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_6	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601B		R	PROFINET	104 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_5	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_5	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601C		R	PROFINET	104 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_4	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_4	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601D		R	PROFINET	104 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_3	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_3	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601E		R	PROFINET	104 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_2	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_2	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601F		R	PROFINET	104 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22_1	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601G		R	PROFINET	104 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_601_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_601_ISO22	BOOL	-	1	-	IMPORTANT REVERSE DIFFERENTIAL PRESSURE - LL - PT630-PT610		R	PROFINET	105 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TAHH_620_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TAHH_620_ISO22	BOOL	-	1	-	ANODE TEMPERATURE INLET STACK VERY HIGH - HH - TT-600		R	PROFINET	105 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TDAHH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TDAHH_600_ISO22	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TDALL_600_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TDALL_600_ISO22	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_60_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 60_1	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_60_1_HH	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 60_1 HH	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_60_1_LL	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 60_1 LL	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_60_2	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 60_2	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_60_2_HH	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 60_2 HH	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_60_2_LL	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 60_2 LL	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK VERY HIGH - HH - TT-601a,b,...		R	PROFINET	105 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_61_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 61_1	BOOL	-	1	-	CATHODE TEMPERATURE INLET STACK VERY HIGH - HH - TT-620		R	PROFINET	105 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_61_1_HH	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 61_1 HH	BOOL	-	1	-	ANODE DT VERY HIGH - HH - TDY-600		R	PROFINET	105 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_2_HH	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_2 HH	BOOL	-	1	-	ANODE DT VERY LOW - LL - TDY-600		R	PROFINET	105 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_3_HH	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_3 HH	BOOL	-	1	-	NO SIGNAL - ERR - TT 60.1		R	PROFINET	105 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_4_HH	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_4 HH	BOOL	-	1	-	DEOXO TOWER 61, SURFACE TEMPERATURE VERY HIGH - HH - TT 60.1		R	PROFINET	105 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_5	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_5	BOOL	-	1	-	DEOXO TOWER 61, SURFACE TEMPERATURE VERY LOW - LL TT 60.1		R	PROFINET	105 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_5_HH_A	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_5 HH A	BOOL	-	1	-	DRYER TOWER 64A, BOTTOM ADS. TEMPERATURE VERY HIGH - HH - TT 64.5		R	PROFINET	106 (Bit Reference 0)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_5_HH_R	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_5 HH R	BOOL	-	1	-	DRYER TOWER 64A, BOTTOM REGENERATION TEMPERATURE VERY HIGH - HH - TT 64.5		R	PROFINET	106 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_6	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_6	BOOL	-	1	-	NO SIGNAL - ERR - TT 64.6		R	PROFINET	106(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_6_HH_A	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_6 HH A	BOOL	-	1	-	DRYER TOWER 64A, TOP ADS. TEMPERATURE VERY HIGH -HH - 64.6		R	PROFINET	106(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_6_HH_C	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_6 HH C	BOOL	-	1	-	DRYER TOWER 64A, COOLING FLOW VERY LOW - HH - 64.6		R	PROFINET	106 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_6_HH_R	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_6 HH R	BOOL	-	1	-	DRYER TOWER 64A, TOP REGENERATION TEMPERATURE VERY HIGH - HH - 64.6		R	PROFINET	106 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_7	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_7	BOOL	-	1	-	NO SIGNAL - ERR - TT 64.7		R	PROFINET	106 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_7_HH_A	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_7 HH A	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM ADS. TEMPERATURE VERY HIGH - HH - TT 64.7		R	PROFINET	106 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_7_HH_R	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_7 HH R	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM REGENERATION TEMPERATURE VERY HIGH - HH - TT 64.7		R	PROFINET	106 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_8	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_8	BOOL	-	1	-	NO SIGNAL - ERR - TT 64.8		R	PROFINET	106 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_8_HH_A	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_8 HH A	BOOL	-	1	-	DRYER TOWER 64B, TOP ADS. TEMPERATURE VERY HIGH - HH - 64.8		R	PROFINET	106 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_8_HH_C	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_8 HH C	BOOL	-	1	-	DRYER TOWER 64B, COOLING FLOW TOO LOW - HH - TT 64.8		R	PROFINET	106 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_TSA_64_8_HH_R	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	TSA 64_8 HH R	BOOL	-	1	-	DRYER TOWER 64B, TOP REGENERATION TEMPERATURE VERY HIGH - HH - 64.8		R	PROFINET	106 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VAHH_001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VAHH_001_ISO22	BOOL	-	1	-	STACK-001 VERY HIGH CELL VOLTAGE - HH - PCA-001		R	PROFINET	106 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VAHH_101_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VAHH_101_C63	BOOL	-	1	-	REC-001 VERY HIGH VOLTAGE - HH - VM-101		R	PROFINET	106 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VAHH_102_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VAHH_102_C63	BOOL	-	1	-	REC-002 VERY HIGH VOLTAGE - HH - VM-102		R	PROFINET	106 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VALL_001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VALL_001_ISO22	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM ADS. TEMPERATURE VERY HIGH - HH - TT 64.7		R	PROFINET	107 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_001_ISO22	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM REGENERATION TEMPERATURE VERYHIGH - HH - T		R	PROFINET	107 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_002_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_002_ISO22	BOOL	-	1	-	NO SIGNAL - ERR - TT 64.8		R	PROFINET	107(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_003_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_003_ISO22	BOOL	-	1	-	DRYER TOWER 64B, TOP ADS. TEMPERATURE VERY HIGH - HH - 64.8		R	PROFINET	107(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_004_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_004_ISO22	BOOL	-	1	-	DRYER TOWER 64B, COOLING FLOW TOO LOW - HH - TT 64.8		R	PROFINET	107 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_005_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_005_ISO22	BOOL	-	1	-	DRYER TOWER 64B, TOP REGENERATION TEMPERATURE VERY HIGH - HH - 64.8		R	PROFINET	107 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_006_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_006_ISO22	BOOL	-	1	-	STACK-001 VERY HIGH CELL VOLTAGE - HH - PCA-001		R	PROFINET	107 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_007_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_007_ISO22	BOOL	-	1	-	REC-001 VERY HIGH VOLTAGE - HH - VM-101		R	PROFINET	107 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VKA_008_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VKA_008_ISO22	BOOL	-	1	-	REC-002 VERY HIGH VOLTAGE - HH - VM-102		R	PROFINET	107 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_001_ISO22	BOOL	-	1	-	STACK-001 VERY LOW CELL VOLTAGE - LL - PCA-001		R	PROFINET	107 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_002_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_002_ISO22	BOOL	-	1	-	STACK-001 VOLTAGE DROP - PCA-001 - DROP		R	PROFINET	107 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_003_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_003_ISO22	BOOL	-	1	-	STACK-002 VOLTAGE DROP - PCA-002 - DROP		R	PROFINET	107 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_004_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_004_ISO22	BOOL	-	1	-	STACK-003 VOLTAGE DROP - PCA-003 - DROP		R	PROFINET	107 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_005_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_005_ISO22	BOOL	-	1	-	STACK-004 VOLTAGE DROP - PCA-004 - DROP		R	PROFINET	107 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_006_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_006_ISO22	BOOL	-	1	-	STACK-005 VOLTAGE DROP - PCA-005 - DROP		R	PROFINET	107 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_007_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_007_ISO22	BOOL	-	1	-	STACK-006 VOLTAGE DROP - PCA-006 - DROP		R	PROFINET	107 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_VQAHH_008_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	VQAHH_008_ISO22	BOOL	-	1	-	VOLTAGE DEVIATION bETWEEN PCA-008 AND VM-008 - HH		R	PROFINET	108 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_YAHH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	YAHH_600_ISO22	BOOL	-	1	-	VERY HIGH CONDUCTIVITY CT600 - HH		R	PROFINET	108 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_YAHH_620_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	YAHH_620_ISO22	BOOL	-	1	-	VERY HIGH CONDUCTIVITY CT620 - HH		R	PROFINET	108(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_YALL_600_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	YALL_600_ISO22	BOOL	-	1	-	CALIBRATION FAULT - CT600		R	PROFINET	108(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_YALL_620_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	YALL_620_ISO22	BOOL	-	1	-	CALIBRATION FAULT - CT620		R	PROFINET	108 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SPAREE1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SPAREE1	BOOL	-	1	-	SPARE		R	PROFINET	108 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_002_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_002_C63	BOOL	-	1	-	OVERVOLTAGE - SURGE PROTECTION - RFB		R	PROFINET	108 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_003_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_003_C63	BOOL	-	1	-	FAULT - UPS CIRCUIT BREAKER AUXILIARY CONTACT - OFS		R	PROFINET	108 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_004_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_004_C63	BOOL	-	1	-	BREAKER - AUXILIARY TYPE 2 - 120QM1		R	PROFINET	108 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_008_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_008_C63	BOOL	-	1	-	FAULT - HCU RECTIFIER 400Vac POWER SUPPLY CIRCUIT BREAKER AUXILIARY CONTACT - 100QF3		R	PROFINET	108 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_302_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_302_C63	BOOL	-	1	-	BREAKER WTP300 - 102QF3		R	PROFINET	108 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_SIGA_010_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	SIGA_010_C63	BOOL	-	1	-	HVAC PANEL CIRCUIT BREAKER AUXILIARY CONTACT - 102QM1		R	PROFINET	108 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_014_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_014_C63	BOOL	-	1	-	FAULT - RECTIFIER UPS POWER SUPPLY 1 CIRCUIT BREAKER AUXILIARY CONTACT - 130QF5		R	PROFINET	108 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_1000_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_1000_C63	BOOL	-	1	-	SSI-1000 POWER FAILURE - 130QF7		R	PROFINET	108 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_015_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_015_C63	BOOL	-	1	-	RIO 1 PANEL POWER SUPPLY CIRCUIT BREAKER AUXILIARY CONTACT - 131QF1		R	PROFINET	108 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_016_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_016_C63	BOOL	-	1	-	RIO 2 PANEL POWER SUPPLY CIRCUIT BREAKER AUXILIARY CONTACT - 131QF3		R	PROFINET	108 (Bit Reference 15)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_005_C63_DUP	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_005_C63_DUP	BOOL	-	1	-	FAULT - RECTIFIER 230Vac POWER SUPPLY CIRCUIT BREAKER AUXILIARY CONTACT - 100QF1		R	PROFINET	109 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_JGA_006_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	JGA_006_ISO22	BOOL	-	1	-	REC_MAIN_BREK_DEF		R	PROFINET	109 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_PSA_001_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	PSA_001_C63	BOOL	-	1	-	RECTIFIER COOLING NETWORK PRESSURE SWITCH - PS001		R	PROFINET	109(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_AQA_005_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	AQA_005_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION RIO MAIN - ERR		R	PROFINET	109(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_AQA_006_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	AQA_006_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION RIO 1 - ERR		R	PROFINET	109 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_AQA_007_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	AQA_007_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION RIO 2 - ERR		R	PROFINET	109 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_AQA_018_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	AQA_018_C63	BOOL	-	1	-	LOSS OF COMMUNICATION RIO BURKERT - ERR		R	PROFINET	109 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_LAH_630_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	LAH_630_C63	BOOL	-	1	-	HIGH LEVEL CS-630 - HH - LSH-630		R	PROFINET	109 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_LALL_600_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	LALL_600_C63	BOOL	-	1	-	VERY LOW LEVEL ST-600 LL - LT-600		R	PROFINET	109 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_LALL_620_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	LALL_620_C63	BOOL	-	1	-	VERY LOW LEVEL ST-620 LL - LT-620		R	PROFINET	109 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_LASLL_600_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	LASLL_600_C63	BOOL	-	1	-	VERY LOW LEVEL ST600 (SIS) - LL - LSL-600		R	PROFINET	109 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_LASLL_620_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	LASLL_620_C63	BOOL	-	1	-	VERY LOW LEVEL ST620 (SIS) - LL - LSL-620		R	PROFINET	109 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_ALARM_CODE_11_SPARE_BIT_12	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	ALARM_CODE_11_SPARE_BIT_12	BOOL	-	1	-	SPARE		R	PROFINET	109 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_ALARM_CODE_11_SPARE_BIT_13	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	ALARM_CODE_11_SPARE_BIT_13	BOOL	-	1	-	SPARE		R	PROFINET	109 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_ALARM_CODE_11_SPARE_BIT_14	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	ALARM_CODE_11_SPARE_BIT_14	BOOL	-	1	-	SPARE		R	PROFINET	109 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_ALARM_CODE_11_SPARE_BIT_15	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	ALARM_CODE_11_SPARE_BIT_15	BOOL	-	1	-	SPARE		R	PROFINET	109 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_12	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_12	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	110	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_13	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_13	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	111	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_14	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_14	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	112	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_15	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_15	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	113	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_16	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_16	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	114	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_17	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_17	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	115	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_18	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_18	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	116	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_19	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_19	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	117	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaults_MAJOR_FAULT_ALARM_CODE_20	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaults	MAJOR_FAULT_ALARM_CODE_20	INT16	-	1	-	Each Bit of INT Code represent a fault		R	PROFINET	118	INPUT REGISTER	INT
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AAH_800_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AAH_800_ISO22	BOOL	-	1	-	HIGH OXYGEN CONCENTRATION IN H2 - H - OHA-80		R	PROFINET	119 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_ACA_300A_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	ACA_300A_C63	BOOL	-	1	-	VERY HIGH OXYGEN CONCENTRATION IN H2 - HH - OHA-80		R	PROFINET	119 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_306_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_306_C63	BOOL	-	1	-	HEAT RIBBON 306 CIRCUIT BREAKER AUXILIARY CONTACT - 122QF7		R	PROFINET	119(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_ACA_600A_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	ACA_600A_ISO22	BOOL	-	1	-	STARTING MALFUNCTION CP-600A - ERR - CP-600A		R	PROFINET	119(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_307_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_307_C63	BOOL	-	1	-	FAULT - HEAT RIBBON 307 CIRCUIT BREAKER AUXILIARY CONTACT - 123QF1		R	PROFINET	119 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_ACA_620A_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	ACA_620A_ISO22	BOOL	-	1	-	STARTING MALFUNCTION CP-620A - ERR - CP-620A		R	PROFINET	119 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_503_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_503_C63	BOOL	-	1	-	FAULT - HEAT RIBBON 503 CIRCUIT BREAKER AUXILIARY CONTACT		R	PROFINET	119 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAH_610_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAH_610_C63	BOOL	-	1	-	HIGH H2 CONCENTRATION IN O2 - H - HIOD-610A/B/C 2oo3		R	PROFINET	119 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAH_1000_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAH_1000_ISO22	BOOL	-	1	-	HIGH HYDROGEN CONCENTRATION IN AIR - H - AHD-1000		R	PROFINET	119 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAH_1001_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAH_1001_ISO22	BOOL	-	1	-	HIGH HYDROGEN CONCENTRATION IN AIR - H - AHD-1001		R	PROFINET	119 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAH_1002_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAH_1002_C63	BOOL	-	1	-	HIGH HYDROGEN CONCENTRATION IN AIR - H - AHT-1002		R	PROFINET	119 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAH_1003_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAH_1003_ISO22	BOOL	-	1	-	HIGH HYDROGEN CONCENTRATION IN AIR - H - AHT-1003		R	PROFINET	119 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAH_1004_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAH_1004_ISO22	BOOL	-	1	-	HIGH HYDROGEN CONCENTRATION IN AIR - H - AHD-1004		R	PROFINET	119 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAHH_300_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAHH_300_C63	BOOL	-	1	-	VERY HIGH CONDUCTIVITY LP300 - HH		R	PROFINET	119 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_CAHH_800_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	CAHH_800_ISO22	BOOL	-	1	-	VERY HIGH H2O CONCENTRATION in H2 - HH - DPT-800		R	PROFINET	119 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EIALL_001_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EIALL_001_C63	BOOL	-	1	-	VERY LOW 230V-NETWORK VOLTAGE - LL-PO-001		R	PROFINET	119 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EIALL_002_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EIALL_002_C63	BOOL	-	1	-	MALFUNCTION RELAY ELECTRICAL HEATER - ERR - RELAY EH-1002		R	PROFINET	120 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_600A_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_600A_C63	BOOL	-	1	-	MALFUNCTION RELAY ELECTRICAL HEATER - ERR - RELAY EH-1003		R	PROFINET	120 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_606_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_606_C63	BOOL	-	1	-	MALFUNCTION RELAY ELECTRICAL HEATER - ERR - RELAY EH-1004		R	PROFINET	120(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_607B_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_607B_C63	BOOL	-	1	-	MALFUNCTION RELAY ELECTRICAL HEATER - ERR - RELAY EH-1006		R	PROFINET	120(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_620A__C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_620A_C63	BOOL	-	1	-	MALFUNCTION RELAY ELECTRICAL HEATER - ERR - RELAY EH-1007		R	PROFINET	120 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1101_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1101_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-001		R	PROFINET	120 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1102_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1102_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-002		R	PROFINET	120 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1103_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1103_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-003		R	PROFINET	120 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1104_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1104_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-004		R	PROFINET	120 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1105_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1105_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-005		R	PROFINET	120 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1106_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1106_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-006		R	PROFINET	120 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1107_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1107_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-007		R	PROFINET	120 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_EGA_1108_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	EGA_1108_ISO22	BOOL	-	1	-	MALFUNCTION RELAY FAN STACK - ERR - RELAY EXT-008		R	PROFINET	120 (Bit Reference 12)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FAL_600_ISO22_500	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FAL_600_ISO22_500	BOOL	-	1	-	LOW FLOW ON ANODIC CIRCULATION LOOP - L - FT-600		R	PROFINET	120 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FAL_620_ISO22_500	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FAL_620_ISO22_500	BOOL	-	1	-	LOW FLOW ON CATHODIC CIRCULATION LOOP - L - FT-620		R	PROFINET	120 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FAL_900_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FAL_900_ISO22	BOOL	-	1	-	LOW N2 FLOWRATE FOR PURGE - L - FT-900		R	PROFINET	120 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FAL_901_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FAL_901_ISO22	BOOL	-	1	-	LOW N2 FLOWRATE FOR PURGE - L - FT-901		R	PROFINET	121 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FAL_920_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FAL_920_ISO22	BOOL	-	1	-	LOW N2 FLOWRATE FOR PURGE - L - FT-920		R	PROFINET	121 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FAL_921_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FAL_921_ISO22	BOOL	-	1	-	LOW N2 FLOWRATE FOR PURGE - L - FT-921		R	PROFINET	121(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FALL_611_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FALL_611_ISO22	BOOL	-	1	-	VERY LOW O2 FAST LOOP FLOWRATE - LL - FICV-611		R	PROFINET	121(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FALL_800_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FALL_800_ISO22	BOOL	-	1	-	VERY LOW H2 FLOW ANALYSIS - LL - FICV-800		R	PROFINET	121 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_FDAH_630_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	FDAH_630_ISO22	BOOL	-	1	-	HIGH DEVIATION H2 PRODUCTION VS H2 FLOWMETER - HH - FT-630		R	PROFINET	121 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_GDA_611_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	GDA_611_ISO22	BOOL	-	1	-	POSITION DEVIATION OF MPV-611 - ERR - MPV-611		R	PROFINET	121 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_GDA_630_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	GDA_630_ISO22	BOOL	-	1	-	POSITION DEVIATION OF MPV-630 - ERR - MPV-630		R	PROFINET	121 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_300A_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_300A_C63	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER PUMP - ERR - BREAKER LP-300A		R	PROFINET	121 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_300B_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_300B_C63	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER PUMP - ERR - BREAKER LP-300B		R	PROFINET	121 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_600A_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_600A_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER PUMP - ERR - BREAKER CP-600A		R	PROFINET	121 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_600B_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_600B_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER PUMP - ERR - BREAKER CP-600B		R	PROFINET	121 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_620A_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_620A_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER PUMP - ERR - BREAKER CP-620A		R	PROFINET	121 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_620B_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_620B_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER PUMP - ERR - BREAKER CP-620B		R	PROFINET	121 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1001_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER ELECTRICAL HEATER - ERR - BREAKER EH-1001		R	PROFINET	121 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1002_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1002_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER ELECTRICAL HEATER - ERR - BREAKER EH-1002		R	PROFINET	121 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1003_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1003_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER ELECTRICAL HEATER - ERR - BREAKER EH-1003		R	PROFINET	122 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1004_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1004_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER ELECTRICAL HEATER - ERR - BREAKER EH-1004		R	PROFINET	122 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1006_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1006_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER ELECTRICAL HEATER - ERR - BREAKER EH-1006		R	PROFINET	122(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1007_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1007_ISO22	BOOL	-	1	-	MALFUNCTION CIRCUIT BREAKER ELECTRICAL HEATER - ERR - BREAKER EH-1007		R	PROFINET	122(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1121	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1121	BOOL	-	1	-	MALFUNCTION MAIN CIRCUIT BREAKER FOR 4 FANS STACK - ERR - BREAKER STACK 001/002/003/004		R	PROFINET	122 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_1122	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_1122	BOOL	-	1	-	MALFUNCTION COMMON CIRCUIT BREAKER OF 4 FANS STACKS - ERR - BREAKER STACK 005/006/007/008		R	PROFINET	122 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAH_600_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAH_600_C63	BOOL	-	1	-	HIGH LEVEL ST-600 - H - LT-600		R	PROFINET	122 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAH_610_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAH_610_ISO22	BOOL	-	1	-	HIGH LEVEL CS-610 - H - LSH-610		R	PROFINET	122 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAH_620_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAH_620_C63	BOOL	-	1	-	HIGH LEVEL ST-620 - H - LT-620		R	PROFINET	122 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_ODA_001_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	ODA_001_C63	BOOL	-	1	-	DIVERGENCE REMOTE / LOCAL		R	PROFINET	122 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAHH_640_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAHH_640_ISO22	BOOL	-	1	-	HIGH LEVEL DG-640 - HH - LSH-640		R	PROFINET	122 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAL_600_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAL_600_C63	BOOL	-	1	-	LOW LEVEL ST-600 - L -		R	PROFINET	122 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAL_610_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAL_610_ISO22	BOOL	-	1	-	Low Level CS-610 - L - LSL-610		R	PROFINET	122 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAL_620_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAL_620_C63	BOOL	-	1	-	LOW LEVEL ST-620 - L - LT-620		R	PROFINET	122 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_LAL_630_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	LAL_630_ISO22	BOOL	-	1	-	LOW LEVEL CS-630 - L - LSL-630		R	PROFINET	122 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_625_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_625_C63	BOOL	-	1	-	FAULT - HEAT RIBBON 625 CIRCUIT BREAKER AUXILIARY CONTACT		R	PROFINET	122 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_JGA_640_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	JGA_640_C63	BOOL	-	1	-	FAULT - HEAT RIBBON 640 CIRCUIT BREAKER AUXILIARY CONTACT		R	PROFINET	123 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PA_64_1_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PA 64_1 L	BOOL	-	1	-	CONDENSATE, PT 64.1 SET POINT NOT REACHED - L - PT-64-1		R	PROFINET	123 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_150_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_150_ISO22	BOOL	-	1	-	HIGH INSTRUMENT AIR PRESSURE - H - PT-150		R	PROFINET	123(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_300_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_300_ISO22	BOOL	-	1	-	HIGH PRESSURE DOWNSTREAM LP-300 - H - PT300		R	PROFINET	123(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_600_ISO22	BOOL	-	1	-	HIGH PRESSURE DOWNSTREAM CP600A/B - H - PT-600		R	PROFINET	123 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_610_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_610_ISO22	BOOL	-	1	-	HIGH PRESSURE IN OXYGEN SEPARATOR ST-610 (BPCS) - H - PT-610		R	PROFINET	123 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_612_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_612_ISO22	BOOL	-	1	-	HIGH OXYGEN VENT PRESSURE - H - PT-612		R	PROFINET	123 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_620_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_620_ISO22	BOOL	-	1	-	HIGH PRESSURE DOWNSTREAM CP620A/B - H - PT-620		R	PROFINET	123 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_630_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_630_ISO22	BOOL	-	1	-	HIGH HYDROGEN PRESSURE HYDROGEN SIDE - H - PT-630		R	PROFINET	123 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAH_910_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAH_910_ISO22	BOOL	-	1	-	HIGH NITROGEN PRESSURE - H - PT-910		R	PROFINET	123 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAHH_300_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAHH_300_C63	BOOL	-	1	-	VERY HIGH PRESSURE DOWNSTREAM OF LP300A/B - HH - PT-300		R	PROFINET	123 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAHH_632_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAHH_632_C63	BOOL	-	1	-	VERY HIGH PRESSURE ON HYDROGEN VENT - HH - PT-632		R	PROFINET	123 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAHH_633_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAHH_633_C63	BOOL	-	1	-	VERY HIGH PRESSURE ON HYDROGEN CUSTOMER LINE - HH - PT-633		R	PROFINET	123 (Bit Reference 12)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAL_150_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAL_150_ISO22	BOOL	-	1	-	LOW INSTRUMENT AIR PRESSURE - L - PT-150		R	PROFINET	123 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAL_300_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAL_300_C63	BOOL	-	1	-	LP300 PUMP PRESSURE LOSS - L - PT300		R	PROFINET	123 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAL_600_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAL_600_C63	BOOL	-	1	-	CP-600 PUMP PRESSURE LOSS - L - PT600		R	PROFINET	123 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAL_620_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAL_620_C63	BOOL	-	1	-	CP-620 PRESSURE LOSS - L - PT-620		R	PROFINET	124 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PAL_910_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PAL_910_ISO22	BOOL	-	1	-	LOW NITROGEN PRESSURE - L - PT-910		R	PROFINET	124 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_300_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_300_C63	BOOL	-	1	-	LP-300 PUMP CHANGEOVER UNFORESEEN - LL - PT300		R	PROFINET	124(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_600_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_600_C63	BOOL	-	1	-	CP- 600 CHANGEOVER UNFORESEEN - LL - PT-600		R	PROFINET	124(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_620_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_620_C63	BOOL	-	1	-	CP-620 CHANGEOVER UNFORESEEN - LL - PT-620		R	PROFINET	124 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_1001_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_1001_C63	BOOL	-	1	-	VERY LOW PRESSURE IN WTP ROOM - LOSS OF VENTILATION - LL - PT-1001		R	PROFINET	124 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_SPARE14	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_SPARE14	BOOL	-	1	-	VERY LOW PRESSURE IN O2/H2 ROOM - LOSS OF VENTILATION - LL - PT-1002		R	PROFINET	124 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_SPARE15	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_SPARE15	BOOL	-	1	-	VERY LOW PRESSURE IN STACK ROOM - LOSS OF VENTILATION - LL - PT-1003		R	PROFINET	124 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_1004_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_1004_C63	BOOL	-	1	-	VERY LOW PRESSURE IN ELECTRICAL ROOM - LOSS OF VENTILATION - LL - PT-1004		R	PROFINET	124 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_1005_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_1005_C63	BOOL	-	1	-	VERY LOW PRESSURE IN HVAC CONTAINER - LOSS OF VENTILATION - LL - PT-1005		R	PROFINET	124 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PALL_SPARE02	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PALL_SPARE02	BOOL	-	1	-	VERY LOW PRESSURE IN PROCESS CONTAINER - LOSS OF VENTILATION - LL - PT-1006		R	PROFINET	124 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PDAH_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PDAH_001_ISO22	BOOL	-	1	-	IMPORTANT DIFFERENTIAL PRESSURE - H - PT630-PT610		R	PROFINET	124 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PDAH_610_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PDAH_610_ISO22	BOOL	-	1	-	OXYGEN SIDE DEPRESSURISATION TOO LONG - H - PT-610		R	PROFINET	124 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PDAH_630_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PDAH_630_ISO22	BOOL	-	1	-	HYDROGEN SIDE DEPRESSURISATION TOO LONG - H - PT-630		R	PROFINET	124 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_PDAL_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	PDAL_001_ISO22	BOOL	-	1	-	REVERSE DIFFERENTIAL PRESSURE - L - PT630-PT610		R	PROFINET	124 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_60_1_H	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 60_1 H	BOOL	-	1	-	DEOXO TOWER 61, SURFACE TEMPERATURE HIGH - H - TT 60.1		R	PROFINET	124 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_60_1_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 60_1 L	BOOL	-	1	-	DEOXO TOWER 61, SURFACE TEMPERATURE LOW - L - TT 60.1		R	PROFINET	125 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_60_2_H	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 60_2 H	BOOL	-	1	-	DEOXO TRACE HEATER HE 61.1, TEMPERATURE HIGH - H - TT 60.2		R	PROFINET	125 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_60_2_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 60_2 L	BOOL	-	1	-	DEOXO TRACE HEATER HE 61.1, TEMPERATURE LOW - L - TT 60.2		R	PROFINET	125(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_61_1_H	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 61_1 H	BOOL	-	1	-	DEOXO TOWER 61, GAS UTLET TEMPERATURE HIGH - H - TT 61.1		R	PROFINET	125(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_5_H	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_5 H	BOOL	-	1	-	Température liquide de refroidissement sécheur 64A TT 64.5 - H		R	PROFINET	125 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_5_H_A	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_5 H A	BOOL	-	1	-	DRYER TOWER 64A, BOTTOM ADS. TEMPERATURE HIGH - H - TT 64.5		R	PROFINET	125 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_5_H_R	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_5 H R	BOOL	-	1	-	DRYER TOWER 64A, BOTTOM REGENERATION TEMPERATURE HIGH - H - TT 64.5		R	PROFINET	125 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_5_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_5 L	BOOL	-	1	-	Température bas sécheur 64A régénération TT 64.5 - L		R	PROFINET	125 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_6_H_A	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_6 H A	BOOL	-	1	-	DRYER TOWER 64A, TOP ADS. TEMPERATURE HIGH - H - 64.6		R	PROFINET	125 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_6_H_R	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_6 H R	BOOL	-	1	-	DRYER TOWER 64A, TOP REGENERATION TEMPERATURE HIGH - H - 64.6		R	PROFINET	125 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_6_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_6 L	BOOL	-	1	-	TOP DRYER TOWER 64A REGENERATION TEMPERATURE - L - TT 64.6		R	PROFINET	125 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_7_H	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_7 H	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM COOLIN FLOW LOW - H - TT 64.7		R	PROFINET	125 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_7_H_A	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_7 H A	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM ADS. TEMPERATURE HIGH - H - TT 64.7		R	PROFINET	125 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_7_H_R	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_7 H R	BOOL	-	1	-	DRYER TOWER 64B, BOTTOM REGENERATION TEMPERATURE HIGH - H - TT 64.7		R	PROFINET	125 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_7_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_7 L	BOOL	-	1	-	DRYER TOWER 64B, REGENERATION TEMPERATURE BOTTOM LOW - L - TT 64.7		R	PROFINET	125 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_8_H_A	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_8 H A	BOOL	-	1	-	DRYER TOWER 64B, TOP ADS. TEMPERATURE HIGH - H - 64.8		R	PROFINET	125 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_8_H_R	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_8 H R	BOOL	-	1	-	DRYER TOWER 64B, TOP REGENERATION TEMPERATURE HIGH - H - 64.8		R	PROFINET	126 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TA_64_8_L	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TA 64_8 L	BOOL	-	1	-	DRYER TOWER 64B, REGENERATION TEMPERATURE TOP LOW L - TT 64.8		R	PROFINET	126 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_7	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_7	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601A		R	PROFINET	126(Bit Reference 2)	INPUT REGISTER	BOOL

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OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_6	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_6	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601B		R	PROFINET	126(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_5	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_5	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601C		R	PROFINET	126 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_4	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_4	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601D		R	PROFINET	126 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_3	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_3	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601E		R	PROFINET	126 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_2	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_2	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601F		R	PROFINET	126 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22_1	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601G		R	PROFINET	126 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAH_601_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAH_601_ISO22	BOOL	-	1	-	ANODE TEMPERATURE OUTLET STACK HIGH - H - TT-601H		R	PROFINET	126 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAHH_1001_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAHH_1001_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY HIGH WTP ROOM - HH - TT-1001		R	PROFINET	126 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAHH_1002_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAHH_1002_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY HIGH O2/H2 LOOP CONTAINER - HH - TT-1002		R	PROFINET	126 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAHH_1003_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAHH_1003_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY HIGH STACK ROOM - HH - TT-1003		R	PROFINET	126 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAHH_1004_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAHH_1004_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY HIGH ELECTRICAL ROOM - HH - TT-1004		R	PROFINET	126 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAHH_1005_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAHH_1005_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY HIGH HVAC CONTAINER - HH - TT-1005		R	PROFINET	126 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAHH_1006_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAHH_1006_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY HIGH PROCESS CONTAINER - HH - TT-1006		R	PROFINET	126 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_1	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601A		R	PROFINET	127 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_2	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_2	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601B		R	PROFINET	127 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_3	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_3	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601C		R	PROFINET	127(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_4	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_4	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601D		R	PROFINET	127(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_5_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_5_1	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601E		R	PROFINET	127 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_6_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_6_1	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601F		R	PROFINET	127 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22_7_1	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22_7_1	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601G		R	PROFINET	127 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_601_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_601_ISO22	BOOL	-	1	-	ANODE TEMPERATURE LOW - L - TT-601H		R	PROFINET	127 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TAL_1003_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TAL_1003_ISO22	BOOL	-	1	-	AMBIENT TEMPERATURE LOW - L - TT-1003		R	PROFINET	127 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_600_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_600_ISO22	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-600		R	PROFINET	127 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_8	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_8	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601A		R	PROFINET	127 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_9	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_9	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601B		R	PROFINET	127 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_10	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_10	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601C		R	PROFINET	127 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_11	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_11	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601D		R	PROFINET	127 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_12	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_12	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601E		R	PROFINET	127 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_13	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_13	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601F		R	PROFINET	127 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_14	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_14	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601G		R	PROFINET	128 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_601_ISO22_15	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_601_ISO22_15	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-601H		R	PROFINET	128 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_620_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_620_ISO22	BOOL	-	1	-	ANODE TEMPERATURE VERY LOW - LL - TT-620		R	PROFINET	128(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_1001_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_1001_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY LOW WTP ROOM - LL - TT-1001		R	PROFINET	128(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_1002_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_1002_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY LOW O2/H2 LOOP CONTAINER - LL - TT-1002		R	PROFINET	128 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_1003_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_1003_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY LOW STACK ROOM - LL - TT-1003		R	PROFINET	128 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_1005_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_1005_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY LOW HVAC CONTAINER - LL - TT-1005		R	PROFINET	128 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_1006_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_1006_C63	BOOL	-	1	-	AMBIENT TEMPERATURE VERY LOW PROCESS CONTAINER - LL - TT-1006		R	PROFINET	128 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TALL_1003_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TALL_1003_ISO22	BOOL	-	1	-	AMBIENT TEMPERATURE VERY LOW - LL - TT-1004		R	PROFINET	128 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TDAH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TDAH_600_ISO22	BOOL	-	1	-	ANODE DT HIGH - H - TDY-600		R	PROFINET	128 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TDAL_600_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TDAL_600_ISO22	BOOL	-	1	-	ANODE DT LOW - L - TDY-600		R	PROFINET	128 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TSAHH_621A_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TSAHH_621A_ISO22	BOOL	-	1	-	CP-620A HIGH TEMPERATURE MAGNETIC COUPLING - HH - TT-621A		R	PROFINET	128 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_TSAHH_621B_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	TSAHH_621B_ISO22	BOOL	-	1	-	CP-620A HIGH TEMPERATURE MAGNETIC COUPLING - HH - TT-621B		R	PROFINET	128 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_VAH_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	VAH_001_ISO22	BOOL	-	1	-	STACK-001-008 VERY HIGH CELL VOLTAGE - H - PCA-001		R	PROFINET	128 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_VAH_101_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	VAH_101_C63	BOOL	-	1	-	REC-001 HIGH VOLTAGE - H - VM-101		R	PROFINET	128 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_VAH_102_C63	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	VAH_102_C63	BOOL	-	1	-	REC-002 HIGH VOLTAGE - H - VM-102		R	PROFINET	128 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.IntelockProcessFaultWarning_VAL_001_ISO22	Logic.Application	ELECTROLYZER_GVL	IntelockProcessFaultWarning	VAL_001_ISO22	BOOL	-	1	-	STACK-001 LOW CELL VOLTAGE - L - PCA-001		R	PROFINET	129 (Bit Reference 0)	INPUT REGISTER	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_YAH_600_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	YAH_600_ISO22	BOOL	-	1	-	CONDUCTIVITE ELEVEE CT600 - H		R	PROFINET	129 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_YAH_620_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	YAH_620_ISO22	BOOL	-	1	-	CONDUCTIVITE ELEVEE CT620 - H		R	PROFINET	129(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SCA_300A_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SCA_300A_C63	BOOL	-	1	-	ERROR VSD LP-300A - ERR - VAR-300A		R	PROFINET	129(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SCA_300B_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SCA_300B_C63	BOOL	-	1	-	ERROR VSD LP-300B - ERR - VAR-300B		R	PROFINET	129 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SCA_600A	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SCA_600A	BOOL	-	1	-	ERROR VSD CP-600A - ERR - VAR-600A		R	PROFINET	129 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SCA_600B	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SCA_600B	BOOL	-	1	-	ERROR VSD CP-600B - ERR - VAR-600B		R	PROFINET	129 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SCA_620A	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SCA_620A	BOOL	-	1	-	ERROR VSD CP-620A - ERR - VAR-620A		R	PROFINET	129 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SCA_620B	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SCA_620B	BOOL	-	1	-	ERROR VSD CP-620B - ERR - VAR-620B		R	PROFINET	129 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_Spare_1_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	Spare_1_1	BOOL	-	1	-	SPARE		R	PROFINET	129 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_200_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_200_C63	BOOL	-	1	-	DRY COOLER FAULT - ERR - DC-200		R	PROFINET	129 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_201_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_201_C63	BOOL	-	1	-	DRY COOLER FAULT - ERR - DC-201		R	PROFINET	129 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_400_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_400_C63	BOOL	-	1	-	WATER CHILLER DEFAULT - ERR - WC-400		R	PROFINET	129 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_401_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_401_C63	BOOL	-	1	-	WATER CHILLER DEFAULT - ERR - WC-401		R	PROFINET	129 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_400_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_400_C63	BOOL	-	1	-	BREAKER WC-400 - CHILLER 1 - 102QM5		R	PROFINET	129 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_401_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_401_C63	BOOL	-	1	-	BREAKER WC-401 - CHILLER 2 - 102QM7		R	PROFINET	129 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_012_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_012_C63	BOOL	-	1	-	BREAKER DC ALIM1 24VDC - 130QF1		R	PROFINET	130 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_JGA_013_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	JGA_013_C63	BOOL	-	1	-	BREAKER DC ALIM2 24VDC - 130QF3		R	PROFINET	130 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_008_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_008_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN001 - ERR		R	PROFINET	130(Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_009_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_009_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN002 - ERR		R	PROFINET	130(Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_010_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_010_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN003 - ERR		R	PROFINET	130 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_011_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_011_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN004 - ERR		R	PROFINET	130 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_012_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_012_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN005 - ERR		R	PROFINET	130 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_013_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_013_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN006 - ERR		R	PROFINET	130 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_014_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_014_ISO22	BOOL	-	1	-	LOSS OF COMMUNICATION CANJPN007 - ERR		R	PROFINET	130 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_015_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_015_ISO22	BOOL	-	1		LOSS OF COMMUNICATION CANJPN008 - ERR		R	PROFINET	130 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_016_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_016_ISO22	BOOL	-	1		LOSS OF COMMUNICATION PQ001 ERR		R	PROFINET	130 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_AQA_017_ISO22	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	AQA_017_ISO22	BOOL	-	1		LOSS OF COMMUNICATION PQ002 ERR		R	PROFINET	130 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_ACA_300A_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	ACA_300A_C63	BOOL	-	1		LP-300A STARTING FAULT - LP-300A		R	PROFINET	130 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_ACA_300B_C63	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	ACA_300B_C63	BOOL	-	1		LP-300B STARTING FAULT - LP-300B		R	PROFINET	130 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.EMCS_Connections.BESS_Connected	Logic.Application	EMCS_Connections		BESS_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.Electrolyzer_Connected	Logic.Application	EMCS_Connections		Electrolyzer_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.FuelCell_Connected	Logic.Application	EMCS_Connections		FuelCell_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.GIS_Connected	Logic.Application	EMCS_Connections		GIS_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.SG_100D1_Connected	Logic.Application	EMCS_Connections		SG_100D1_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.SG_200D2_Connected	Logic.Application	EMCS_Connections		SG_200D2_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.SG_200N1_Connected	Logic.Application	EMCS_Connections		SG_200N1_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.SolarFarm_Connected	Logic.Application	EMCS_Connections		SolarFarm_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.TransformerAVR_Connected	Logic.Application	EMCS_Connections		TransformerAVR_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Connections.WindFarm_Connected	Logic.Application	EMCS_Connections		WindFarm_Connected	BOOL	-	1		Device communication status		R	Internal logic			BOOL
Logic.Application.EMCS_Internal.ProcessAlarm	Logic.Application	EMCS_Internal		ProcessAlarm	UINT16	-	1		Enumeration to be defined		R	Internal mapped			UINT16
Logic.Application.EMCS_Internal.ElectricalAlarm	Logic.Application	EMCS_Internal		ElectricalAlarm	UINT16	-	1		Enumeration to be defined		R	Internal mapped			UINT16
Logic.Application.EMCS_Internal.AutoManualMode	Logic.Application	EMCS_Internal		AutoManualMode	UInt16		1		Enumeration: 0: Automatic 1: Manual Maintenance 2: Manual Research		W	Internal mapped			UINT16
Logic.Application.EMCS_Internal.AuxLoad	Logic.Application	EMCS_Internal		AuxLoad	Float	kW	1		Measure of the auxiliaries		R	Internal mapped			Float
Logic.Application.EMCS_Internal.AVR_AutoManual	Logic.Application	EMCS_Internal		AVR_AutoManual	BOOL	-	1		0: manual, 1: automatic		W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.AVR_OutputVoltage	Logic.Application	EMCS_Internal		AVR_OutputVoltage	Float	kW	1		Measured at AS_TR_100AD1		R	Internal mapped			Float
Logic.Application.EMCS_Internal.AVR_Status	Logic.Application	EMCS_Internal		AVR_Status	Uint16		1		TBD, not used at the moment		R	Internal mapped			Uint16
Logic.Application.EMCS_Internal.AVR_TapLower	Logic.Application	EMCS_Internal		AVR_TapLower	BOOL		1		Command to lower the TAP		W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.AVR_TapPosition	Logic.Application	EMCS_Internal		AVR_TapPosition	Int16		1		Current tap position		R	Internal mapped			Int16
Logic.Application.EMCS_Internal.AVR_TapRaise	Logic.Application	EMCS_Internal		AVR_TapRaise	BOOL		1		Command to rise the TAP		R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.AVR_VoltageDeviationPerc	Logic.Application	EMCS_Internal		AVR_VoltageDeviationPerc	Float		1		Deviation from the set point		W	Internal mapped			Float
Logic.Application.EMCS_Internal.AVR_VoltageSetPoint	Logic.Application	EMCS_Internal		AVR_VoltageSetPoint	Float	V	1	5940 : 7260	Set point		W	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_ActivePower	Logic.Application	EMCS_Internal		BESS_ActivePower	Float	kW	1		BESS measured active power. If positive the battery is discharged		R	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_ActivePowerSetPoint	Logic.Application	EMCS_Internal		BESS_ActivePowerSetPoint	Float	kW	1		BESS set point feedback		R	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_ActivePowerSetPointCmd	Logic.Application	EMCS_Internal		BESS_ActivePowerSetPointCmd	Float	kW	1	-1000 : 1000	BESS set point command		W	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_FullyCharged	Logic.Application	EMCS_Internal		BESS_FullyCharged	BOOL		1		Flag indicating that the BESS SOC reached the maximum	See the parameter BESS_MAXIMUM_OPERATING_RESERVE	R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.BESS_GridFormingPermissive	Logic.Application	EMCS_Internal		BESS_GridFormingPermissive	BOOL	-	1		Permissive given to the BESS		W	Hardwired	0		BOOL
Logic.Application.EMCS_Internal.BESS_HasVoltage	Logic.Application	EMCS_Internal		BESS_HasVoltage	BOOL	-	1		Flag indicating that the BESS is energyzed (mesured at		R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.BESS_Healthy	Logic.Application	EMCS_Internal		BESS_Healthy	BOOL		1		Flag indicating that the BESS is		R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.BESS_OperatingStatus	Logic.Application	EMCS_Internal		BESS_OperatingStatus	Int16		1		Current operating status	1:"Warning", 2:"Error", 4:"Preheat State", 8:"Standby State", 16:"Precharge State", 32:"Ready State", 64:"Active State", 128:"Safety relais", 256:"Smoke detector", 512:"main switch on",	R	Internal mapped			Int16
Logic.Application.EMCS_Internal.BESS_OperatingStatusCmd	Logic.Application	EMCS_Internal		BESS_OperatingStatusCmd	Int16	-	1		BitMask Dec 0: Stop; 0 13: Start 8192	Command to set the operating status	W	Internal mapped			Int16
Logic.Application.EMCS_Internal.BESS_DischargeEnergy	Logic.Application	EMCS_Internal		BESS_DischargeEnergy	Float	kWh	1		Energy that can be provided by the BESS		R	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_ChargeEnergy	Logic.Application	EMCS_Internal		BESS_ChargeEnergy	Float	kWh	1		Energy that can be charged in the BESS		R	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_AvailableEnergyPerc	Logic.Application	EMCS_Internal		BESS_AvailableEnergyPerc	Float	%	1		Calculated Available Energy. It is based on Discharge Energy		R	Internal mapped			Float
Logic.Application.EMCS_Internal.BESS_SOC	Logic.Application	EMCS_Internal		BESS_SOC	Float	%	1		Status of Charge of the		R	Internal mapped			Float
Logic.Application.EMCS_Internal.BUS_6_6kV_HasVoltage	Logic.Application	EMCS_Internal		BUS_6_6kV_HasVoltage	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.Electrolyzer_ActivationThreshold	Logic.Application	EMCS_Internal		Electrolyzer_ActivationThreshold	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.Electrolyzer_ActivePowerConsumption	Logic.Application	EMCS_Internal		Electrolyzer_ActivePowerConsumption	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.Electrolyzer_FlowSetPointCmd	Logic.Application	EMCS_Internal		Electrolyzer_FlowSetPointCmd	Float	Nm3/h	1	50-500	Requested flow set point		W	Internal mapped			Float
Logic.Application.EMCS_Internal.Electrolyzer_ActivePowerSetPointCmd	Logic.Application	EMCS_Internal		Electrolyzer_ActivePowerSetPointCmd	Float	kW	1	250 : 2500	Requested power set point		W	Internal mapped			Float

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.EMCS_Internal.Electrolyzer_OperatingStatus	Logic.Application	EMCS_Internal		Electrolyzer_OperatingStatus	Int16	-	1		Enumeration LOCAL MODE 0 : MISE POWER ON (POWER ON) 1 : MODE STOP (STOP) 2 : MODE IDLE (IDLE) 3 : MODE STAND BY 4 : MODE PRODUCTION 5 : MODE MANUEL 6 : MODE Stop in progress 7 : MODE Start in progress 8. MODE IDLE in progress 9. STAND BY in progress 10. Standby DISTANT MODE 11 : MISE POWER ON (POWER ON) 12 : MODE STOP (STOP) 13 : MODE IDLE (IDLE) 14 : MODE STANDY BY (STANDY BY) 15 : MODE PRODUCTION 16 : MODE Stop in progress 17. MODE Start in progress		R	Internal mapped			Int16
Logic.Application.EMCS_Internal.Electrolyzer_OperatingStatusCmd	Logic.Application	EMCS_Internal		Electrolyzer_OperatingStatusCmd	Int16	-	1		Enum 1 : MODE STOP (STOP) 2 : MODE IDLE (IDLE) 3 : MODE STANDBY (STANDY BY)		W	Internal mapped			Int16
Logic.Application.EMCS_Internal.Electrolyzer_SetPointChoiseCmd	Logic.Application	EMCS_Internal		Electrolyzer_SetPointChoiseCmd	Int16	-	1		0: Power Set Point 1: Flow H2 Setpoint		W	Internal mapped			Int16
Logic.Application.EMCS_Internal.FuelCell_ActivePower	Logic.Application	EMCS_Internal		FuelCell_ActivePower	Float	kW	1	0 : 1200	-		R	Internal mapped			Float
Logic.Application.EMCS_Internal.FuelCell_ActivePowerSetPointCmd	Logic.Application	EMCS_Internal		FuelCell_ActivePowerSetPointCmd	Float	kW	1	0 : 1200	Export Power Setpoint kW.		W	Internal mapped			Float
Logic.Application.EMCS_Internal.FuelCell_ConversionEfficiency	Logic.Application	EMCS_Internal		FuelCell_ConversionEfficiency	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.FuelCell_Efficiency	Logic.Application	EMCS_Internal		FuelCell_Efficiency	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.FuelCell_OperatingStatus	Logic.Application	EMCS_Internal		FuelCell_OperatingStatus	Int16		1		Main FC Package Statemachine Index (enumeration) 6: Initialization (Initialize) 10: Sleep (Sleep) 14: Wakeup (StartupContainerVentilation) 17: Wakeup (FCwaveWakeup) 19: Wakeup (HydrogenHeaterStartup) 20: Standby (Standby) 30: Startup (BatteryStartup) 40: Startup (NanogridStartup) 50: Startup (LTCoolantStartup) 60: Startup (MicrogridStartup) 100:Running (Running) 105:Rampdown (RampDownPower) 110:Rampdown		R	Internal mapped			Int16
Logic.Application.EMCS_Internal.FuelCell_OperatingStatusCmd	Logic.Application	EMCS_Internal		FuelCell_OperatingStatusCmd	Int16	-	1		BitMask Dec 0:Wakeup 1 1:Sleep 2 2:Start 4 3:Stop 8 4:<Spare> 16 5:Reset 32		W	Internal mapped			Int16
Logic.Application.EMCS_Internal.FuelCell_ResidualEnergy	Logic.Application	EMCS_Internal		FuelCell_ResidualEnergy	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.GridTied	Logic.Application	EMCS_Internal		GridTied	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNAS_ActivePower	Logic.Application	EMCS_Internal		HNAS_ActivePower	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.HNAS_Fault	Logic.Application	EMCS_Internal		HNAS_Fault	BOOL		1		HOLD 34 FDS		R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNAS_SupplyGuarantee	Logic.Application	EMCS_Internal		HNAS_SupplyGuarantee	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNAS_P_GT_GUAR_ActivationTime	Logic.Application	EMCS_Internal		HNAS_P_GT_GUAR.ActivationTime	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.HNAS_P_GT_GUAR_IsActive	Logic.Application	EMCS_Internal		HNAS_P_GT_GUAR.IsActive	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNAS_P_GT_GUAR_Inertia	Logic.Application	EMCS_Internal		HNAS_P_GT_GUAR.Inertia	Int16		1				R	Internal mapped			Int16
Logic.Application.EMCS_Internal.HNAS_P_GT_SURP_ActivationTime	Logic.Application	EMCS_Internal		HNAS_P_GT_SURP.ActivationTime	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.HNAS_P_GT_SURP_IsActive	Logic.Application	EMCS_Internal		HNAS_P_GT_SURP.IsActive	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNAS_P_GT_SURP_Inertia	Logic.Application	EMCS_Internal		HNAS_P_GT_SURP.Inertia	Int16		1				R	Internal mapped			Int16
Logic.Application.EMCS_Internal.HNAS_P_LT_GUAR_ActivationTime	Logic.Application	EMCS_Internal		HNAS_P_LT_GUAR.ActivationTime	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.HNAS_P_LT_GUAR_IsActive	Logic.Application	EMCS_Internal		HNAS_P_LT_GUAR.IsActive	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNAS_P_LT_GUAR_Inertia	Logic.Application	EMCS_Internal		HNAS_P_LT_GUAR.Inertia	Int16		1				R	Internal mapped			Int16
Logic.Application.EMCS_Internal.HNA6_QA1CB_CloseCmd	Logic.Application	EMCS_Internal		HNA6_QA1CB_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNA6_QA1CB_OpenCmd	Logic.Application	EMCS_Internal		HNA6_QA1CB_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.HNA6_QA1CB_Status	Logic.Application	EMCS_Internal		HNA6_QA1CB_Status	SByte		1				R	Internal mapped			SByte
Logic.Application.EMCS_Internal.HNA6_QA1CB_StatusInt	Logic.Application	EMCS_Internal		HNA6_QA1CB_StatusInt	SByte		1		Used internally only for simulation/test purpose		R	Internal mapped			SByte
Logic.Application.EMCS_Internal.PlatformSupplyGuarantee	Logic.Application	EMCS_Internal		PlatformSupplyGuarantee	BOOL		1		Overall status of the supply guarantee (Operator and WindFarm)		R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.ResidualOperationTime	Logic.Application	EMCS_Internal		ResidualOperationTime	Float	hours	1		In emergency mode tells how many seconds the BLPH can operate before going to POWER OUT MODE		R	Internal mapped			Float
Logic.Application.EMCS_Internal.SG100D1_A1_ELECTROLYZER_CloseCmd	Logic.Application	EMCS_Internal		SG100D1_A1_ELECTROLYZER_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A1_ELECTROLYZER_Closed	Logic.Application	EMCS_Internal		SG100D1_A1_ELECTROLYZER_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A1_ELECTROLYZER_Open	Logic.Application	EMCS_Internal		SG100D1_A1_ELECTROLYZER_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A1_ELECTROLYZER_OpenCmd	Logic.Application	EMCS_Internal		SG100D1_A1_ELECTROLYZER_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A2_TR_200ED1_CloseCmd	Logic.Application	EMCS_Internal		SG100D1_A2_TR_200ED1_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A2_TR_200ED1_Closed	Logic.Application	EMCS_Internal		SG100D1_A2_TR_200ED1_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A2_TR_200ED1_Open	Logic.Application	EMCS_Internal		SG100D1_A2_TR_200ED1_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A2_TR_200ED1_OpenCmd	Logic.Application	EMCS_Internal		SG100D1_A2_TR_200ED1_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A3_BESS_CloseCmd	Logic.Application	EMCS_Internal		SG100D1_A3_BESS_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A3_BESS_Closed	Logic.Application	EMCS_Internal		SG100D1_A3_BESS_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A3_BESS_Open	Logic.Application	EMCS_Internal		SG100D1_A3_BESS_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A3_BESS_OpenCmd	Logic.Application	EMCS_Internal		SG100D1_A3_BESS_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A4_TR_200DE1_CloseCmd	Logic.Application	EMCS_Internal		SG100D1_A4_TR_200DE1_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A4_TR_200DE1_Closed	Logic.Application	EMCS_Internal		SG100D1_A4_TR_200DE1_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A4_TR_200DE1_Open	Logic.Application	EMCS_Internal		SG100D1_A4_TR_200DE1_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A4_TR_200DE1_OpenCmd	Logic.Application	EMCS_Internal		SG100D1_A4_TR_200DE1_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A6_TR_100AD1_CloseCmd	Logic.Application	EMCS_Internal		SG100D1_A6_TR_100AD1_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A6_TR_100AD1_Closed	Logic.Application	EMCS_Internal		SG100D1_A6_TR_100AD1_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A6_TR_100AD1_Open	Logic.Application	EMCS_Internal		SG100D1_A6_TR_100AD1_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A6_TR_100AD1_OpenCmd	Logic.Application	EMCS_Internal		SG100D1_A6_TR_100AD1_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A6_TR_100AD1_VoltsMainBus1_L2	Logic.Application	EMCS_Internal		SG100D1_A6_TR_100AD1_VoltsMainBus1_L2	Float		1		Voltage used as feedback for the AVR Transformer		R	Internal mapped			Float
Logic.Application.EMCS_Internal.SG100D1_A7_FUELL_CELL_CloseCmd	Logic.Application	EMCS_Internal		SG100D1_A7_FUELL_CELL_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A7_FUELL_CELL_Closed	Logic.Application	EMCS_Internal		SG100D1_A7_FUELL_CELL_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A7_FUELL_CELL_Open	Logic.Application	EMCS_Internal		SG100D1_A7_FUELL_CELL_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG100D1_A7_FUELL_CELL_OpenCmd	Logic.Application	EMCS_Internal		SG100D1_A7_FUELL_CELL_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG200D2_CloseCmd	Logic.Application	EMCS_Internal		SG200D2_CloseCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG200D2_Closed	Logic.Application	EMCS_Internal		SG200D2_Closed	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG200D2_Open	Logic.Application	EMCS_Internal		SG200D2_Open	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SG200D2_OpenCmd	Logic.Application	EMCS_Internal		SG200D2_OpenCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_ActivePower	Logic.Application	EMCS_Internal		SolarFarm_ActivePower	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.SolarFarm_ActivePowerSetPoint	Logic.Application	EMCS_Internal		SolarFarm_ActivePowerSetPoint	Float		1				R	Internal mapped			Float
Logic.Application.EMCS_Internal.SolarFarm_ActivePowerSetPointCmd	Logic.Application	EMCS_Internal		SolarFarm_ActivePowerSetPointCmd	Float	kW	1	0 : 500	InverterSystem_Current_curtailment_setpoint		W	Internal mapped			Float
Logic.Application.EMCS_Internal.SolarFarm_CB_CloseRequest	Logic.Application	EMCS_Internal		SolarFarm_CB_CloseRequest	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_CB_OpenRequest	Logic.Application	EMCS_Internal		SolarFarm_CB_OpenRequest	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_Fault	Logic.Application	EMCS_Internal		SolarFarm_Fault	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_Healthy	Logic.Application	EMCS_Internal		SolarFarm_Healthy	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_Maintenance	Logic.Application	EMCS_Internal		SolarFarm_Maintenance	BOOL		1				R	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_OperatingStatus	Logic.Application	EMCS_Internal		SolarFarm_OperatingStatus	Int16		1		0: Shutdown, 1: Operating,		R	Internal mapped			Int16
Logic.Application.EMCS_Internal.SolarFarm_ShutdownCmd	Logic.Application	EMCS_Internal		SolarFarm_ShutdownCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.SolarFarm_StartupCmd	Logic.Application	EMCS_Internal		SolarFarm_StartupCmd	BOOL		1				W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.OperatorSupplyGuarantee	Logic.Application	EMCS_Internal		OperatorSupplyGuarantee	BOOL		1		Enumeration: 0: Automatic 1: Manual Active 2: Manual Inactive	Automatic: the HNAS Supply Guaranty is applied Manual Active: operator override Manual Inactive: operator override	W	Internal mapped			BOOL
Logic.Application.EMCS_Internal.TotalActivePower	Logic.Application	EMCS_Internal		TotalActivePower	Float		1				R	Internal mapped			Float

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.EMCS_Parameters.BESS_ENERGY_CAPACITY	Logic.Application	EMCS_Parameters		BESS_ENERGY_CAPACITY	Float	kWh	1		Total energy that the BESS can store		W	Internal logic			Float
Logic.Application.EMCS_Parameters.BESS_LIMIT_FOR_ADV_LOAD_SHEDDING	Logic.Application	EMCS_Parameters		BESS_LIMIT_FOR_ADV_LOAD_SHEDDING	Float	%	1		Level at which the request to load shedding the second group of auxiliaries is sent to the PCS		W	Internal logic			Float
Logic.Application.EMCS_Parameters.BESS_MAXIMUM_CHARGE_SETPOINT	Logic.Application	EMCS_Parameters		BESS_MAXIMUM_CHARGE_SETPOINT	Float	kW	1		Max set point that can be applied		W	Internal logic			Float
Logic.Application.EMCS_Parameters.BESS_MAXIMUM_DISCHARGE_START_RESERVE	Logic.Application	EMCS_Parameters		BESS_MAXIMUM_DISCHARGE_START_RESERVE	Float	%	1		Request to start BESS discharge only if the BESS charge level is above this threshold		W	Internal logic			Float
Logic.Application.EMCS_Parameters.BESS_MAXIMUM_OPERATING_RESERVE	Logic.Application	EMCS_Parameters		BESS_MAXIMUM_OPERATING_RESERVE	Float	%	1		Maximum charge level		W	Internal logic			Float
Logic.Application.EMCS_Parameters.BESS_MINIMUM_CHARGE_START_RESERVE	Logic.Application	EMCS_Parameters		BESS_MINIMUM_CHARGE_START_RESERVE	Float	%	1		Request to start BESS charge only if the BESS charge level is below this threshold		W	Internal logic			Float
Logic.Application.EMCS_Parameters.BESS_MINIMUM_OPERATING_RESERVE	Logic.Application	EMCS_Parameters		BESS_MINIMUM_OPERATING_RESERVE	Float	%	1		Minimum charge level		W	Internal logic			Float
Logic.Application.EMCS_Parameters.ColdStandBy_Mode_Delay	Logic.Application	EMCS_Parameters		ColdStandBy_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.ELECTROLYZER_MAX_SET_POINT	Logic.Application	EMCS_Parameters		ELECTROLYZER_MAX_SET_POINT	Float	kW	1		Max set point that can be applied		W	Internal logic			Float
Logic.Application.EMCS_Parameters.ELECTROLYZER_STOP_TIMEOUT	Logic.Application	EMCS_Parameters		ELECTROLYZER_STOP_TIMEOUT	Int64	s	1		Max time to wait the electrolyser after sending the stop command		W	Internal logic			Int64
Logic.Application.EMCS_Parameters.Emergency_Mode_Delay	Logic.Application	EMCS_Parameters		Emergency_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Export_Mode_Delay	Logic.Application	EMCS_Parameters		Export_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.FUEL_CELL_MAXIMUM_SETPOINT	Logic.Application	EMCS_Parameters		FUEL_CELL_MAXIMUM_SETPOINT	Float	kW	1		Max set point that can be applied		W	Internal logic			Float
Logic.Application.EMCS_Parameters.HotStandBy_Mode_Delay	Logic.Application	EMCS_Parameters		HotStandBy_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Idle_Mode_Delay	Logic.Application	EMCS_Parameters		Idle_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Import_Able_Mode_Delay	Logic.Application	EMCS_Parameters		Import_Able_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Imsort_Mode_Delay	Logic.Application	EMCS_Parameters		Imsort_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Import_Not_Able_Mode_Delay	Logic.Application	EMCS_Parameters		Import_Not_Able_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Maintenance_Mode_Delay	Logic.Application	EMCS_Parameters		Maintenance_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.None_Mode_Delay	Logic.Application	EMCS_Parameters		None_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Powerout_Mode_Delay	Logic.Application	EMCS_Parameters		Powerout_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.Research_Mode_Delay	Logic.Application	EMCS_Parameters		Research_Mode_Delay	Int16	s	1		Inertia to enter the mode		W	Internal logic			Int16
Logic.Application.EMCS_Parameters.SOLAR_FARM_MAXIMUM_SETPOINT	Logic.Application	EMCS_Parameters		SOLAR_FARM_MAXIMUM_SETPOINT	Float	kW	1		Max set point that can be applied		W	Internal logic			Float
Logic.Application.EMCS_Parameters.WINDFARM_POWER_COMPARE_HOLD_TIME	Logic.Application	EMCS_Parameters		WINDFARM_POWER_COMPARE_HOLD_TIME	UInt16	s	1		Default = 60 seconds. Hysteresis on wind power comparison		W	Internal logic			UInt16
Logic.Application.EMCS_Parameters.WINDFARM_SUPPLY_GUARANTEE_MIN_POWER	Logic.Application	EMCS_Parameters		WINDFARM_SUPPLY_GUARANTEE_MIN_POWER	Float	kW	1		Default = 1000		W	Internal logic			Float
Logic.Application.EMCS_Parameters.WINDFARM_SURPLUS_MIN_POWER	Logic.Application	EMCS_Parameters		WINDFARM_SURPLUS_MIN_POWER	Float	kW	1		Default = 2000		W	Internal logic			Float
Logic.Application.EMCS_StatusMachine.Current_Mode	Logic.Application	EMCS_StatusMachine		Current_Mode	Int16		1		Enumeration 0:NONE 1:IDLE 2:IMPORT 3:IMPORT_ABLE_TO_CHARGE 4:IMPORT_ NOT_ABLE_TO CHARGE 5:HOT_STANDBY 6:EXPORT 7:COLD_STANDBY 8:EMERGENCY 9:POWER_OUT 10:MAINTENANCE 11:RESEARCH		R	Internal logic			Int16
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_ActiveEnergyExport	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	ActiveEnergyExport	INT32	GWh	1		Active Energy Export total		R	OPC-UA	HKNtn.ActiveEnergyExport		INT32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_ActiveEnergyImport	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	ActiveEnergyImport	INT32	MWh	1		Active Energy Import total		R	OPC-UA	HKNtn.ActiveEnergyImport		INT32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_ActLimit_PowerBy	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	ActLimit_PowerBy	STRING		1				R	OPC-UA	HKNtn.ActivePower		STRING
Logic.Application.NYInd_Farm_GVL.HNA5_AFA70_BirdCurtailFB	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	BirdCurtailFB	INT32		1				R	OPC-UA	HKNtn.ActLimit_PowerBy		INT32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Frequency	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Frequency	DOUBLE	Hz	1		Frequency		R	OPC-UA	HKNtn.BirdCurtailFB		DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_LocRemSt	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	LocRemSt	INT32		1		"Reflects turbine state 0= Operating on Grid 1= Operating- waiting for converter cut-in 2= Operating- waiting for release 3= Operating- waiting for wind/ acceleration 4= Stopped - pitch exercising/lubrication 5= Stopped - untwisting cables 6= Stopped - Wind Speed too high 7= Stopped - Grid Error 8= Stopped - Error with auto reset (only applicable for WTC3) 9= Stopped - manual alarm reset required 10 = Safety Stop (only applicable for WTC3) 11= Remote Stop"		R	OPC-UA	HKNtn.LocRemSt		
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_OrienStp	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	OrienStp	INT32		1		Command to activate/deactivate orientation stop Value = 1 - Deactivate orientation stop Value = 2 - Activate orientation stop. Azimuth and yaw defined by parameters. Value = 101 - (HeliHoist 101) Prepare 90° azimuth and 90° yaw. Must be enabled by sending Pin with ('HHOSeAct.Value') Value = 102 - (HeliHoist 102) Prepare 30° azimuth and -90° yaw. Must be enabled by sending Pin with ('HHOSeAct.Value') Value = 110 - (HeliHoist 110) Prepare 0° azimuth and 0° yaw. Must be enabled by sending Pin with ('HHOSeAct.Value') Value = 111 - (HeliHoist 111) Prepare 0° azimuth and 90° yaw. Must be enabled by sending Pin with ('HHOSeAct.Value') Value = 112 - (HeliHoist 112) Prepare 0° azimuth and -90° yaw. Must be enabled by sending		R/W	OPC-UA	HKNtn.OrienStp		
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_PowerRef	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	PowerRef	Double		1		Turbine power reference (setpoint)		R	OPC-UA	HKNtn.PowerRef		Double
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_PwrAvail	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	PwrAvail	Double		1		Estimated Available Power from turbine		R	OPC-UA	HKNtn.PwrAvail		Double
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_ReactiveEnergyExport	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	ReactiveEnergyExport	Int32		1		Reactive Energy Export total		R	OPC-UA	HKNtn.ReactiveEnergyExport		Int32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_ReactiveEnergyImport	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	ReactiveEnergyImport	Int32		1		Reactive Energy Import total		R	OPC-UA	HKNtn.ReactiveEnergyImport		Int32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_WindDirection	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	WindDirection	Int32		1		Geographic wind direction in degrees(0-360). -1 No source		R	OPC-UA	HKNtn.WindDirection		Int32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_WindSpeed	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	WindSpeed	Double		1		Turbine wind speed from active wind sensor		R	OPC-UA	HKNtn.WindSpeed		Double
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_WpsStatus	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	WpsStatus	Int32		1		State indication from SCADA. Coding: 0=Faultless 1=Service mode 2=Fault condition 3=No communication to WTC3/STC1 4=No LAN communication			OPC-UA			Int32
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_TurbinePowerRef	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	TurbinePowerRef	Double		1		Turbine power reference (setpoint)			OPC-UA			Double
Logic.Application.Wind_Farm_GVL.SupplyGuarantee	Logic.Application	Wind_Farm_GVL		SupplyGuarantee			1			Still missing in the source I/O list Indicates the electrical status of the Circuit Breakers between BLPH and offshore substation		OPC-UA	HNA5.SupplyGuarantee		Double
Logic.Application.SG_10001_A7_GVL.SG_10001_A7_PHPTOV1_Op	Logic.Application	SG_10001_A7_GVL		SG_10001_A7_PHPTOV1_Op	BOOL		1		PROTECTION TRIPPED "59-1"	SG10001_A7_FUELL_CELL		IEC-61850			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.EMCS_StatusMachine.Current_SubMode	Logic.Application	EMCS_StatusMachine		Current_SubMode	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.Next_Mode	Logic.Application	EMCS_StatusMachine		Next_Mode	Int16		1		Enumeration 0:NONE 1:IDLE 2:IMPORT 3:IMPORT_ABLE_TO_CHARGE 4:IMPORT_ NOT_ABLE_ TO CHARGE 5:HOT_STANDBY 6:EXPORT 7:COLD_STANDBY 8:EMERGENCY 9:POWER_OUT 10:MAINTENANCE 11:RESEARCH		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.Next_SubMode	Logic.Application	EMCS_StatusMachine		Next_SubMode	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_COLD_STANDBY_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_COLD_STANDBY_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_COLD_STANDBY_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_COLD_STANDBY_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_COLD_STANDBY_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_COLD_STANDBY_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_COLD_STANDBY_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_COLD_STANDBY_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_COLD_STANDBY_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_COLD_STANDBY_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_EMERGENCY_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_EMERGENCY_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_EMERGENCY_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_EMERGENCY_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_EMERGENCY_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_EMERGENCY_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_EMERGENCY_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_EMERGENCY_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_EMERGENCY_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_EMERGENCY_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_EXPORT_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_EXPORT_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_EXPORT_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_EXPORT_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_EXPORT_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_EXPORT_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_EXPORT_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_EXPORT_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_EXPORT_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_EXPORT_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_HOT_STANDBY_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_HOT_STANDBY_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_HOT_STANDBY_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_HOT_STANDBY_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_HOT_STANDBY_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_HOT_STANDBY_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_HOT_STANDBY_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_HOT_STANDBY_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_HOT_STANDBY_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_HOT_STANDBY_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IDLE_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_IDLE_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IDLE_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_IDLE_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IDLE_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_IDLE_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_IDLE_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_IDLE_STATUS.ExecutorStatus	Int16		1		Enumeration		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IDLE_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_IDLE_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_ABLE_TO_CHARGE_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_ABLE_TO_CHARGE_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_ABLE_TO_CHARGE_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_ABLE_TO_CHARGE_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_ABLE_TO_CHARGE_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_ABLE_TO_CHARGE_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_ABLE_TO_CHARGE_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_ABLE_TO_CHARGE_STATUS.ExecutorStatus	Int16		1		Enumeration		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_ABLE_TO_CHARGE_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_ABLE_TO_CHARGE_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS.ExecutorStatus	Int16		1		Enumeration		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_NOT_ABLE_TO_CHARGE_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_IMPORT_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_IMPORT_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_MAINTENANCE_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_MAINTENANCE_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_MAINTENANCE_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_MAINTENANCE_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_MAINTENANCE_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_MAINTENANCE_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.FuelCell_GVL.ControlWord	Logic.Application	FuelCell_GVL		ControlWord	INT16		1		BitMask Dec		R/W	MODBUS	1001	HOLDING REGISTER	BOOL
Logic.Application.FuelCell_GVL.POWER_SP	Logic.Application	FuelCell_GVL		POWER_SP	FLOAT	kW	1	0 : 1200	Export Power Setpoint kW.		R/W	MODBUS	1000	HOLDING REGISTER	INT16
Logic.Application.FuelCell_GVL.10ft-Container_Temperature	Logic.Application	FuelCell_GVL		10ft - Container Temperature	INT16	°C	1			Not implemented yet by package	R	MODBUS	1117	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.10ft-Ventilation_Fan_Speed	Logic.Application	FuelCell_GVL		10ft - Ventilation Fan Speed	INT16	rpm	1			Not implemented yet by package	R	MODBUS	1118	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.40ft-Container_Temperature_2	Logic.Application	FuelCell_GVL		40ft - Container Temperature 2	INT16	°C	1			Not implemented yet by package	R	MODBUS	1113	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.40ft-Container_Temperature_3	Logic.Application	FuelCell_GVL		40ft - Container Temperature 3	INT16	°C	1			Not implemented yet by package	R	MODBUS	1114	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.40ft-Ventilation_Fan_1_Speed	Logic.Application	FuelCell_GVL		40ft - Ventilation Fan 1 Speed	INT16	rpm	1			Not implemented yet by package	R	MODBUS	1115	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.40ft-Ventilation_Fan_2_Speed	Logic.Application	FuelCell_GVL		40ft - Ventilation Fan 2 Speed	INT16	rpm	1			Not implemented yet by package	R	MODBUS	1116	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.40ft-Ventilation_Intake_Temperature	Logic.Application	FuelCell_GVL		40ft - Ventilation Intake Temperature	INT16	°C	1			Not implemented yet by package	R	MODBUS	1112	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.MainSafetyOK_AID_1001	Logic.Application	FuelCell_GVL		MainSafetyOK_AID_1001	BOOL					1001 - ALARM ID	R	MODBUS	1140 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.SafetymoBusCommnsDriverError_AID_1002	Logic.Application	FuelCell_GVL		SafetymoBusCommnsDriverError_AID_1002	BOOL					1002- ALARM ID	R	MODBUS	1140 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.ESTOPCustomer_AID_1003	Logic.Application	FuelCell_GVL		ESTOPCustomer_AID_1003	BOOL					1003- ALARM ID	R	MODBUS	1140 (Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.ESTOPcontrolCabinet_AID_1004	Logic.Application	FuelCell_GVL		ESTOPcontrolCabinet_AID_1004	BOOL					1004- ALARM ID	R	MODBUS	1140 (Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.ESTOPContainerDoor_AID_1005	Logic.Application	FuelCell_GVL		ESTOPContainerDoor_AID_1005	BOOL					1005- ALARM ID	R	MODBUS	1140 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.ESTOPcoolantSkid_AID_1006	Logic.Application	FuelCell_GVL		ESTOPcoolantSkid_AID_1006	BOOL					1006- ALARM ID	R	MODBUS	1140 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.EFIBusStatus1_AID_1007	Logic.Application	FuelCell_GVL		EFIBusStatus1_AID_1007	BOOL					1007- ALARM ID	R	MODBUS	1140 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.EFIBusStatus2_AID_1008	Logic.Application	FuelCell_GVL		EFIBusStatus2_AID_1008	BOOL					1008- ALARM ID	R	MODBUS	1140 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.ESTOP10ft_AID_1009	Logic.Application	FuelCell_GVL		ESTOP10ft_AID_1009	BOOL					1009- ALARM ID	R	MODBUS	1140 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.DoorRight_10ft_AID_1010	Logic.Application	FuelCell_GVL		DoorRight_10ft_AID_1010	BOOL					1010- ALARM ID	R	MODBUS	1140 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.DoorLeft_10ft_AID_1011	Logic.Application	FuelCell_GVL		DoorLeft_10ft_AID_1011	BOOL					1011- ALARM ID	R	MODBUS	1140 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.smokeDetectorIntake_AID_1012	Logic.Application	FuelCell_GVL		smokeDetectorIntake_AID_1012	BOOL					1012- ALARM ID	R	MODBUS	1140 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.smokeDetectorOutletA_AID_1013	Logic.Application	FuelCell_GVL		smokeDetectorOutletA_AID_1013	BOOL					1013- ALARM ID	R	MODBUS	1140 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.smokeDetectorOutletB_AID_1014	Logic.Application	FuelCell_GVL		smokeDetectorOutletB_AID_1014	BOOL					1014- ALARM ID	R	MODBUS	1140 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.smokeDetector10ft_AID_1015	Logic.Application	FuelCell_GVL		smokeDetector10ft_AID_1015	BOOL					1015- ALARM ID	R	MODBUS	1140 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.hydrogenSensorVentIntakeok_AID_1016	Logic.Application	FuelCell_GVL		hydrogenSensorVentIntakeok_AID_1016	BOOL					1016- ALARM ID	R	MODBUS	1140 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.hydrogenSensorOutletAok_AID_1017	Logic.Application	FuelCell_GVL		hydrogenSensorOutletAok_AID_1017	BOOL					1017- ALARM ID	R	MODBUS	1141 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.hydrogenSensorOutletBok_AID_1018	Logic.Application	FuelCell_GVL		hydrogenSensorOutletBok_AID_1018	BOOL					1018- ALARM ID	R	MODBUS	1141 (Bit Reference 1)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.FCwave_1_Error_AID_1019	Logic.Application	FuelCell_GVL		FCwave_1_Error_AID_1019	BOOL					1019- ALARM ID	R	MODBUS	1141 (Bit Reference 2)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.FCwave_2_Error_AID_1020	Logic.Application	FuelCell_GVL		FCwave_2_Error_AID_1020	BOOL					1020- ALARM ID	R	MODBUS	1141 (Bit Reference 3)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.FCwave_3_Error_AID_1021	Logic.Application	FuelCell_GVL		FCwave_3_Error_AID_1021	BOOL					1021- ALARM ID	R	MODBUS	1141 (Bit Reference 4)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.FCwave_4_Error_AID_1022	Logic.Application	FuelCell_GVL		FCwave_4_Error_AID_1022	BOOL					1022- ALARM ID	R	MODBUS	1141 (Bit Reference 5)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.FCwave_5_Error_AID_1023	Logic.Application	FuelCell_GVL		FCwave_5_Error_AID_1023	BOOL					1023- ALARM ID	R	MODBUS	1141 (Bit Reference 6)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.FCwave_6_Error_AID_1024	Logic.Application	FuelCell_GVL		FCwave_6_Error_AID_1024	BOOL					1024- ALARM ID	R	MODBUS	1141 (Bit Reference 7)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.HT_Cool_1_Error_AID_1025	Logic.Application	FuelCell_GVL		HT_Cool_1_Error_AID_1025	BOOL					1025- ALARM ID	R	MODBUS	1141 (Bit Reference 8)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.HT_Cool_2_Error_AID_1026	Logic.Application	FuelCell_GVL		HT_Cool_2_Error_AID_1026	BOOL					1026- ALARM ID	R	MODBUS	1141 (Bit Reference 9)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.LT_Cool_Error_AID_1027	Logic.Application	FuelCell_GVL		LT_Cool_Error_AID_1027	BOOL					1027- ALARM ID	R	MODBUS	1141 (Bit Reference 10)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.Microgrid_Error_AID_1028	Logic.Application	FuelCell_GVL		Microgrid_Error_AID_1028	BOOL					1028- ALARM ID	R	MODBUS	1141 (Bit Reference 11)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.Nanogrid_Error_AID_1029	Logic.Application	FuelCell_GVL		Nanogrid_Error_AID_1029	BOOL					1029- ALARM ID	R	MODBUS	1141 (Bit Reference 12)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.Ventilation_Error_AID_1030	Logic.Application	FuelCell_GVL		Ventilation_Error_AID_1030	BOOL					1030- ALARM ID	R	MODBUS	1141 (Bit Reference 13)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.Climate_40ft_Error_AID_1031	Logic.Application	FuelCell_GVL		Climate_40ft_Error_AID_1031	BOOL					1031- ALARM ID	R	MODBUS	1141 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.Climate_10ft_Error_AID_1032	Logic.Application	FuelCell_GVL		Climate_10ft_Error_AID_1032	BOOL					1032- ALARM ID	R	MODBUS	1141 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.H2_Heatline_Error_AID_1033	Logic.Application	FuelCell_GVL		H2_Heatline_Error_AID_1033	BOOL					1033- ALARM ID	R	MODBUS	1142 (Bit Reference 0)	INPUT REGISTER	BOOL
Logic.Application.FuelCell_GVL.Ambient_Temperature	Logic.Application	FuelCell_GVL		Ambient Temperature	FLOAT	°C	1			Not implemented yet by package	R	MODBUS	1230	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Aux_AC_power	Logic.Application	FuelCell_GVL		Aux AC power	INT16	kW	1				R	MODBUS	1041	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Apparent Power	Logic.Application	FuelCell_GVL		AUX Apparent Power	FLOAT	kW	1				R	MODBUS	1341	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Current_L1	Logic.Application	FuelCell_GVL		AUX Current L1	FLOAT	A	1				R	MODBUS	1336	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Current_L2	Logic.Application	FuelCell_GVL		AUX Current L2	FLOAT	A	1				R	MODBUS	1337	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Current_L3	Logic.Application	FuelCell_GVL		AUX Current L3	FLOAT	A	1				R	MODBUS	1338	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Freeuency	Logic.Application	FuelCell_GVL		AUX Freeuency	FLOAT	Hz	1				R	MODBUS	1343	INPUT REGISTER	UINT16
Logic.Application.FuelCell_GVL.AUX Power	Logic.Application	FuelCell_GVL		AUX Power	FLOAT	kW	1				R	MODBUS	1339	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Power_Factor	Logic.Application	FuelCell_GVL		AUX Power Factor	FLOAT	NA	1				R	MODBUS	1342	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX Reactive Power	Logic.Application	FuelCell_GVL		AUX Reactive Power	FLOAT	KVar	1				R	MODBUS	1340	INPUT REGISTER	INT16

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.FuelCell_GVL.AUX_Voltage_L1L2	Logic.Application	FuelCell_GVL		AUX Voltage L1L2	FLOAT	V	1				R	MODBUS	1330	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX_Voltage_L1N	Logic.Application	FuelCell_GVL		AUX Voltage L1N	FLOAT	V	1				R	MODBUS	1331	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX_Voltage_L2L3	Logic.Application	FuelCell_GVL		AUX Voltage L2L3	FLOAT	V	1				R	MODBUS	1331	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX_Voltage_L2N	Logic.Application	FuelCell_GVL		AUX Voltage L2N	FLOAT	V	1				R	MODBUS	1334	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX_Voltage_L3L1	Logic.Application	FuelCell_GVL		AUX Voltage L3L1	FLOAT	V	1				R	MODBUS	1332	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.AUX_Voltage_L3N	Logic.Application	FuelCell_GVL		AUX Voltage L3N	FLOAT	V	1				R	MODBUS	1335	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Available_Unused_Power_(AUP)	Logic.Application	FuelCell_GVL		Available Unused Power (AUP)	INT16	kW	1			Not implemented yet by package	R	MODBUS	1119	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Calculated_Maximum_Power_(CMP)	Logic.Application	FuelCell_GVL		Calculated Maximum Power (CMP)	INT16	kW	1			Not implemented yet by package	R	MODBUS	1120	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Container_intake_air_Temperature	Logic.Application	FuelCell_GVL		Container intake air Temperature	FLOAT	°C	1				R	MODBUS	1231	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_1	Logic.Application	FuelCell_GVL		Error Code 1	INT16	NA	1			implemented by package	R	MODBUS	1050	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_10	Logic.Application	FuelCell_GVL		Error Code 10	INT16	NA	1			implemented by package	R	MODBUS	1059	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_11	Logic.Application	FuelCell_GVL		Error Code 11	INT16	NA	1			implemented by package	R	MODBUS	1060	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_12	Logic.Application	FuelCell_GVL		Error Code 12	INT16	NA	1			implemented by package	R	MODBUS	1061	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_13	Logic.Application	FuelCell_GVL		Error Code 13	INT16	NA	1			implemented by package	R	MODBUS	1062	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_14	Logic.Application	FuelCell_GVL		Error Code 14	INT16	NA	1			implemented by package	R	MODBUS	1063	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_15	Logic.Application	FuelCell_GVL		Error Code 15	INT16	NA	1			implemented by package	R	MODBUS	1064	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_16	Logic.Application	FuelCell_GVL		Error Code 16	INT16	NA	1			implemented by package	R	MODBUS	1065	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_17	Logic.Application	FuelCell_GVL		Error Code 17	INT16	NA	1			implemented by package	R	MODBUS	1066	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_18	Logic.Application	FuelCell_GVL		Error Code 18	INT16	NA	1			implemented by package	R	MODBUS	1067	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_19	Logic.Application	FuelCell_GVL		Error Code 19	INT16	NA	1			implemented by package	R	MODBUS	1068	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_2	Logic.Application	FuelCell_GVL		Error Code 2	INT16	NA	1			implemented by package	R	MODBUS	1051	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_20	Logic.Application	FuelCell_GVL		Error Code 20	INT16	NA	1			implemented by package	R	MODBUS	1069	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_21	Logic.Application	FuelCell_GVL		Error Code 21	INT16	NA	1			implemented by package	R	MODBUS	1070	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_22	Logic.Application	FuelCell_GVL		Error Code 22	INT16	NA	1			implemented by package	R	MODBUS	1071	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_23	Logic.Application	FuelCell_GVL		Error Code 23	INT16	NA	1			implemented by package	R	MODBUS	1072	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_24	Logic.Application	FuelCell_GVL		Error Code 24	INT16	NA	1			implemented by package	R	MODBUS	1073	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_25	Logic.Application	FuelCell_GVL		Error Code 25	INT16	NA	1			implemented by package	R	MODBUS	1074	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_26	Logic.Application	FuelCell_GVL		Error Code 26	INT16	NA	1			implemented by package	R	MODBUS	1075	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_27	Logic.Application	FuelCell_GVL		Error Code 27	INT16	NA	1			implemented by package	R	MODBUS	1076	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_28	Logic.Application	FuelCell_GVL		Error Code 28	INT16	NA	1			implemented by package	R	MODBUS	1077	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_29	Logic.Application	FuelCell_GVL		Error Code 29	INT16	NA	1			implemented by package	R	MODBUS	1078	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_30	Logic.Application	FuelCell_GVL		Error Code 30	INT16	NA	1			implemented by package	R	MODBUS	1079	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_31	Logic.Application	FuelCell_GVL		Error Code 31	INT16	NA	1			implemented by package	R	MODBUS	1080	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_32	Logic.Application	FuelCell_GVL		Error Code 32	INT16	NA	1			implemented by package	R	MODBUS	1081	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_33	Logic.Application	FuelCell_GVL		Error Code 33	INT16	NA	1			implemented by package	R	MODBUS	1082	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_34	Logic.Application	FuelCell_GVL		Error Code 34	INT16	NA	1			implemented by package	R	MODBUS	1083	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_35	Logic.Application	FuelCell_GVL		Error Code 35	INT16	NA	1			implemented by package	R	MODBUS	1084	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_36	Logic.Application	FuelCell_GVL		Error Code 36	INT16	NA	1			implemented by package	R	MODBUS	1085	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_37	Logic.Application	FuelCell_GVL		Error Code 37	INT16	NA	1			implemented by package	R	MODBUS	1086	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_38	Logic.Application	FuelCell_GVL		Error Code 38	INT16	NA	1			implemented by package	R	MODBUS	1087	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_39	Logic.Application	FuelCell_GVL		Error Code 39	INT16	NA	1			implemented by package	R	MODBUS	1088	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_40	Logic.Application	FuelCell_GVL		Error Code 40	INT16	NA	1			implemented by package	R	MODBUS	1089	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_41	Logic.Application	FuelCell_GVL		Error Code 41	INT16	NA	1			implemented by package	R	MODBUS	1090	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_42	Logic.Application	FuelCell_GVL		Error Code 42	INT16	NA	1			implemented by package	R	MODBUS	1091	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_43	Logic.Application	FuelCell_GVL		Error Code 43	INT16	NA	1			implemented by package	R	MODBUS	1092	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_44	Logic.Application	FuelCell_GVL		Error Code 44	INT16	NA	1			implemented by package	R	MODBUS	1093	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_45	Logic.Application	FuelCell_GVL		Error Code 45	INT16	NA	1			implemented by package	R	MODBUS	1094	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_46	Logic.Application	FuelCell_GVL		Error Code 46	INT16	NA	1			implemented by package	R	MODBUS	1095	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_47	Logic.Application	FuelCell_GVL		Error Code 47	INT16	NA	1			implemented by package	R	MODBUS	1096	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_48	Logic.Application	FuelCell_GVL		Error Code 48	INT16	NA	1			implemented by package	R	MODBUS	1097	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_49	Logic.Application	FuelCell_GVL		Error Code 49	INT16	NA	1			implemented by package	R	MODBUS	1098	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_50	Logic.Application	FuelCell_GVL		Error Code 50	INT16	NA	1			implemented by package	R	MODBUS	1099	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_3	Logic.Application	FuelCell_GVL		Error Code 3	INT16	NA	1			implemented by package	R	MODBUS	1052	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_4	Logic.Application	FuelCell_GVL		Error Code 4	INT16	NA	1			implemented by package	R	MODBUS	1053	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_5	Logic.Application	FuelCell_GVL		Error Code 5	INT16	NA	1			implemented by package	R	MODBUS	1054	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_6	Logic.Application	FuelCell_GVL		Error Code 6	INT16	NA	1			implemented by package	R	MODBUS	1055	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_7	Logic.Application	FuelCell_GVL		Error Code 7	INT16	NA	1			implemented by package	R	MODBUS	1056	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_8	Logic.Application	FuelCell_GVL		Error Code 8	INT16	NA	1			implemented by package	R	MODBUS	1057	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Error_Code_9	Logic.Application	FuelCell_GVL		Error Code 9	INT16	NA	1			implemented by package	R	MODBUS	1058	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Export_AC_Power	Logic.Application	FuelCell_GVL		Export AC Power	INT16	kW	1				R	MODBUS	1039	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_+_DC/DC_efficiency	Logic.Application	FuelCell_GVL		FC1 + DC/DC efficiency	FLOAT		1			Not implemented yet by package	R	MODBUS	1203	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_DCDC_A_Power	Logic.Application	FuelCell_GVL		FC1 DCDC A Power	FLOAT	KW	1				R	MODBUS	1239	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_DCDC_B_Power	Logic.Application	FuelCell_GVL		FC1 DCDC B Power	FLOAT	KW	1				R	MODBUS	1240	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_H2_flow_rate	Logic.Application	FuelCell_GVL		FC1 H2 flow rate	FLOAT	kg/h	1			Not implemented yet by package	R	MODBUS	1223	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_Hour_Meter	Logic.Application	FuelCell_GVL		FC1 Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1280	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC1_shutdown_counter	Logic.Application	FuelCell_GVL		FC1 shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1303	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_Stack_Current_String_A	Logic.Application	FuelCell_GVL		FC1 Stack Current String A	FLOAT	A	1				R	MODBUS	1256	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_Stack_Current_String_B	Logic.Application	FuelCell_GVL		FC1 Stack Current String B	FLOAT	A	1				R	MODBUS	1257	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_stack_lifetime_produced_energy	Logic.Application	FuelCell_GVL		FC1 stack lifetime produced energy	FLOAT	kwh	1			Not implemented yet by package	R	MODBUS	1209	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC1_Stack_Power	Logic.Application	FuelCell_GVL		FC1 Stack Power	FLOAT	kw	1				R	MODBUS	1238	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_Stack_Voltage_String_A	Logic.Application	FuelCell_GVL		FC1 Stack Voltage String A	FLOAT	V	1				R	MODBUS	1258	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_Stack_Voltage_String_B	Logic.Application	FuelCell_GVL		FC1 Stack Voltage String B	FLOAT	V	1				R	MODBUS	1259	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_start_counter	Logic.Application	FuelCell_GVL		FC1 start counter	INT16		1			Not implemented yet by package	R	MODBUS	1296	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC1_State	Logic.Application	FuelCell_GVL		FC1_State	INT16		1		Fuel Cell Module #1 Statemachine Index (enumeration)		R	MODBUS	1001	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_+_DC/DC_efficiency	Logic.Application	FuelCell_GVL		FC2 + DC/DC efficiency	FLOAT		1			Not implemented yet by package	R	MODBUS	1204	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_DCDC_A_Power	Logic.Application	FuelCell_GVL		FC2 DCDC A Power	FLOAT	KW	1				R	MODBUS	1242	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_DCDC_B_Power	Logic.Application	FuelCell_GVL		FC2 DCDC B Power	FLOAT	KW	1				R	MODBUS	1243	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_H2_flow_rate	Logic.Application	FuelCell_GVL		FC2 H2 flow rate	FLOAT	kg/h	1			Not implemented yet by package	R	MODBUS	1224	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_Hour_Meter	Logic.Application	FuelCell_GVL		FC2 Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1282	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC2_shutdown_counter	Logic.Application	FuelCell_GVL		FC2 shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1304	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_Stack_Current_String_A	Logic.Application	FuelCell_GVL		FC2 Stack Current String A	FLOAT	A	1				R	MODBUS	1260	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_Stack_Current_String_B	Logic.Application	FuelCell_GVL		FC2 Stack Current String B	FLOAT	A	1				R	MODBUS	1261	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_stack_lifetime_produced_energy	Logic.Application	FuelCell_GVL		FC2 stack lifetime produced energy	FLOAT	kwh	1			Not implemented yet by package	R	MODBUS	1211	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC2_Stack_Power	Logic.Application	FuelCell_GVL		FC2 Stack Power	FLOAT	KW	1				R	MODBUS	1241	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_Stack_Voltage_String_A	Logic.Application	FuelCell_GVL		FC2 Stack Voltage String A	FLOAT	V	1				R	MODBUS	1262	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_Stack_Voltage_String_B	Logic.Application	FuelCell_GVL		FC2 Stack Voltage String B	FLOAT	V	1				R	MODBUS	1263	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_start_counter	Logic.Application	FuelCell_GVL		FC2 start counter	INT16		1			Not implemented yet by package	R	MODBUS	1297	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC2_State	Logic.Application	FuelCell_GVL		FC2_State	INT16		1		Fuel Cell Module #2 Statemachine Index		R	MODBUS	1002	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_+_DC/DC_efficiency	Logic.Application	FuelCell_GVL		FC3 + DC/DC efficiency	FLOAT		1			Not implemented yet by package	R	MODBUS	1205	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_DCDC_A_Power	Logic.Application	FuelCell_GVL		FC3 DCDC A Power	FLOAT	KW	1				R	MODBUS	1245	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_DCDC_B_Power	Logic.Application	FuelCell_GVL		FC3 DCDC B Power	FLOAT	KW	1				R	MODBUS	1246	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_H2_flow_rate	Logic.Application	FuelCell_GVL		FC3 H2 flow rate	FLOAT	kg/h	1			Not implemented yet by package	R	MODBUS	1225	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_Hour_Meter	Logic.Application	FuelCell_GVL		FC3 Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1284	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC3_shutdown_counter	Logic.Application	FuelCell_GVL		FC3 shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1305	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_Stack_Current_String_A	Logic.Application	FuelCell_GVL		FC3 Stack Current String A	FLOAT	A	1				R	MODBUS	1264	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_Stack_Current_String_B	Logic.Application	FuelCell_GVL		FC3 Stack Current String B	FLOAT	A	1				R	MODBUS	1265	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_stack_lifetime_produced_energy	Logic.Application	FuelCell_GVL		FC3 stack lifetime produced energy	FLOAT	kwh	1			Not implemented yet by package	R	MODBUS	1213	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC3_Stack_Power	Logic.Application	FuelCell_GVL		FC3 Stack Power	FLOAT	KW	1				R	MODBUS	1244	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_Stack_Voltage_String_A	Logic.Application	FuelCell_GVL		FC3 Stack Voltage String A	FLOAT	V	1				R	MODBUS	1266	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_Stack_Voltage_String_B	Logic.Application	FuelCell_GVL		FC3 Stack Voltage String B	FLOAT	V	1				R	MODBUS	1267	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_start_counter	Logic.Application	FuelCell_GVL		FC3 start counter	INT16		1			Not implemented yet by package	R	MODBUS	1298	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC3_State	Logic.Application	FuelCell_GVL		FC3_State	INT16		1		Fuel Cell Module #3 Statemachine Index		R	MODBUS	1003	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_+_DC/DC_efficiency	Logic.Application	FuelCell_GVL		FC4 + DC/DC efficiency	FLOAT		1			Not implemented yet by package	R	MODBUS	1206	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_DCDC_A_Power	Logic.Application	FuelCell_GVL		FC4 DCDC A Power	FLOAT	KW	1				R	MODBUS	1248	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_DCDC_B_Power	Logic.Application	FuelCell_GVL		FC4 DCDC B Power	FLOAT	KW	1				R	MODBUS	1249	INPUT REGISTER	INT16

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.FuelCell_GVL.FC4_H2_flow_rate	Logic.Application	FuelCell_GVL		FC4 H2 flow rate	FLOAT	kg/h	1			Not implemented yet by package	R	MODBUS	1226	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_Hour_Meter	Logic.Application	FuelCell_GVL		FC4 Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1286	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC4_shutdown_counter	Logic.Application	FuelCell_GVL		FC4 shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1306	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_Stack_Current_Strina_A	Logic.Application	FuelCell_GVL		FC4 Stack Current Strina A	FLOAT	A	1				R	MODBUS	1268	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_Stack_Current_Strina_B	Logic.Application	FuelCell_GVL		FC4 Stack Current Strina B	FLOAT	A	1				R	MODBUS	1269	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_stack_lifetime_produced_energy	Logic.Application	FuelCell_GVL		FC4 stack lifetime produced energy	FLOAT	kwh	1			Not implemented yet by package	R	MODBUS	1215	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC4_Stack_Power	Logic.Application	FuelCell_GVL		FC4 Stack Power	FLOAT		1				R	MODBUS	1247	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_Stack_Voltaae_Strina_A	Logic.Application	FuelCell_GVL		FC4 Stack Voltaae Strina A	FLOAT	V	1				R	MODBUS	1270	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_Stack_Voltage_String_B	Logic.Application	FuelCell_GVL		FC4 Stack Voltage String B	FLOAT	V	1				R	MODBUS	1271	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_start_counter	Logic.Application	FuelCell_GVL		FC4 start counter	INT16		1			Not implemented yet by package	R	MODBUS	1299	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC4_State	Logic.Application	FuelCell_GVL		FC4_State	INT16		1		Fuel Cell Module #4 Statemachine Index		R	MODBUS	1004	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_+_DC/DC_efficiency	Logic.Application	FuelCell_GVL		FC5 + DC/DC efficiency	FLOAT		1			Not implemented yet by package	R	MODBUS	1207	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_DCDC_A_Power	Logic.Application	FuelCell_GVL		FC5 DCDC A Power	FLOAT	KW	1				R	MODBUS	1251	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_DCDC_B_Power	Logic.Application	FuelCell_GVL		FC5 DCDC B Power	FLOAT	KW	1				R	MODBUS	1252	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_H2_flow_rate	Logic.Application	FuelCell_GVL		FC5 H2 flow rate	FLOAT	kg/h	1			Not implemented yet by package	R	MODBUS	1227	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_Hour_Meter	Logic.Application	FuelCell_GVL		FC5 Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1288	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC5_shutdown_counter	Logic.Application	FuelCell_GVL		FC5 shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1307	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_Stack_Current_String_A	Logic.Application	FuelCell_GVL		FC5 Stack Current String A	FLOAT	A	1				R	MODBUS	1272	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_Stack_Current_String_B	Logic.Application	FuelCell_GVL		FC5 Stack Current String B	FLOAT	A	1				R	MODBUS	1273	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_stack_lifetime_produced_energy	Logic.Application	FuelCell_GVL		FC5 stack lifetime produced energy	FLOAT	kwh	1			Not implemented yet by package	R	MODBUS	1217	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC5_Stack_Power	Logic.Application	FuelCell_GVL		FC5 Stack Power	FLOAT		1				R	MODBUS	1250	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_Stack_Voltage_String_A	Logic.Application	FuelCell_GVL		FC5 Stack Voltage String A	FLOAT	V	1				R	MODBUS	1274	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_Stack_Voltage_String_B	Logic.Application	FuelCell_GVL		FC5 Stack Voltage String B	FLOAT	V	1				R	MODBUS	1275	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_start_counter	Logic.Application	FuelCell_GVL		FC5 start counter	INT16		1			Not implemented yet by package	R	MODBUS	1300	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC5_State	Logic.Application	FuelCell_GVL		FC5_State	INT16		1		Fuel Cell Module #5 Statemachine Index		R	MODBUS	1005	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_+_DC/DC_efficiency	Logic.Application	FuelCell_GVL		FC6 + DC/DC efficiency	FLOAT		1			Not implemented yet by package	R	MODBUS	1208	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_DCDC_A_Power	Logic.Application	FuelCell_GVL		FC6 DCDC A Power	FLOAT	KW	1				R	MODBUS	1254	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_DCDC_B_Power	Logic.Application	FuelCell_GVL		FC6 DCDC B Power	FLOAT	KW	1				R	MODBUS	1255	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_H2_flow_rate	Logic.Application	FuelCell_GVL		FC6 H2 flow rate	FLOAT	kg/h	1			Not implemented yet by package	R	MODBUS	1228	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_Hour_Meter	Logic.Application	FuelCell_GVL		FC6 Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1290	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC6_shutdown_counter	Logic.Application	FuelCell_GVL		FC6 shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1308	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_Stack_Current_Strina_A	Logic.Application	FuelCell_GVL		FC6 Stack Current Strina A	FLOAT	A	1			Not implemented yet by package	R	MODBUS	1276	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_Stack_Current_String_B	Logic.Application	FuelCell_GVL		FC6 Stack Current String B	FLOAT	A	1			Not implemented yet by package	R	MODBUS	1277	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_stack_lifetime_produced_energy	Logic.Application	FuelCell_GVL		FC6 stack lifetime produced energy	FLOAT	kwh	1			Not implemented yet by package	R	MODBUS	1219	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.FC6_Stack_Power	Logic.Application	FuelCell_GVL		FC6 Stack Power	FLOAT	KW	1				R	MODBUS	1253	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_Stack_Voltaae_Strina_A	Logic.Application	FuelCell_GVL		FC6 Stack Voltaae Strina A	FLOAT	V	1			Not implemented yet by package	R	MODBUS	1278	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_Stack_Voltage_String_B	Logic.Application	FuelCell_GVL		FC6 Stack Voltage String B	FLOAT	V	1			Not implemented yet by package	R	MODBUS	1279	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_start_counter	Logic.Application	FuelCell_GVL		FC6 start counter	INT16		1			Not implemented yet by package	R	MODBUS	1301	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FC6_State	Logic.Application	FuelCell_GVL		FC6_State	INT16		1		Fuel Cell Module #6 Statemachine Index		R	MODBUS	1006	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCM_RUNNING	Logic.Application	FuelCell_GVL		FCM_RUNNING	INT16		1		Number of Fuel Cell Modules Producing Power		R	MODBUS	1016	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_1_DCDC_A_Power	Logic.Application	FuelCell_GVL		FCWave 1 DCDC A Power	FLOAT	KW	1				R	MODBUS	1021	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_1_DCDC_B_Power	Logic.Application	FuelCell_GVL		FCWave 1 DCDC B Power	FLOAT	KW	1				R	MODBUS	1022	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_1_Power_Internal	Logic.Application	FuelCell_GVL		FCWave 1 Power Internal	FLOAT		1			Not implemented yet by package	R	MODBUS	1020	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_2_DCDC_A_Power	Logic.Application	FuelCell_GVL		FCWave 2 DCDC A Power	FLOAT	KW	1				R	MODBUS	1024	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_2_DCDC_B_Power	Logic.Application	FuelCell_GVL		FCWave 2 DCDC B Power	FLOAT	KW	1				R	MODBUS	1025	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_2_Power_Internal	Logic.Application	FuelCell_GVL		FCWave 2 Power Internal	FLOAT		1			Not implemented yet by package	R	MODBUS	1023	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_3_DCDC_A_Power	Logic.Application	FuelCell_GVL		FCWave 3 DCDC A Power	FLOAT	KW	1				R	MODBUS	1027	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_3_DCDC_B_Power	Logic.Application	FuelCell_GVL		FCWave 3 DCDC B Power	FLOAT	KW	1				R	MODBUS	1028	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_3_Power_Internal	Logic.Application	FuelCell_GVL		FCWave 3 Power Internal	FLOAT		1			Not implemented yet by package	R	MODBUS	1026	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_4_DCDC_A_Power	Logic.Application	FuelCell_GVL		FCWave 4 DCDC A Power	FLOAT	KW	1				R	MODBUS	1030	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_4_DCDC_B_Power	Logic.Application	FuelCell_GVL		FCWave 4 DCDC B Power	FLOAT	KW	1				R	MODBUS	1031	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_4_Power_Internal	Logic.Application	FuelCell_GVL		FCWave 4 Power Internal	FLOAT		1			Not implemented yet by package	R	MODBUS	1029	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_5_DCDC_A_Power	Logic.Application	FuelCell_GVL		FCWave 5 DCDC A Power	FLOAT	KW	1				R	MODBUS	1033	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_5_DCDC_B_Power	Logic.Application	FuelCell_GVL		FCWave 5 DCDC B Power	FLOAT	KW	1				R	MODBUS	1034	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_5_Power_Internal	Logic.Application	FuelCell_GVL		FCWave 5 Power Internal	FLOAT		1			Not implemented yet by package	R	MODBUS	1032	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_6_DCDC_A_Power	Logic.Application	FuelCell_GVL		FCWave 6 DCDC A Power	FLOAT	KW	1				R	MODBUS	1036	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_6_DCDC_B_Power	Logic.Application	FuelCell_GVL		FCWave 6 DCDC B Power	FLOAT	KW	1				R	MODBUS	1037	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.FCWave_6_Power_Internal	Logic.Application	FuelCell_GVL		FCWave 6 Power Internal	FLOAT		1			Not implemented yet by package	R	MODBUS	1035	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.H2_Consumtion_Status_Word	Logic.Application	FuelCell_GVL		H2 Consumtion Status Word	UINT		1		Bitmask. Each bit (n) indicates that the FCn is consuming	Not implemented yet by package	R	MODBUS	1229	INPUT REGISTER	WORD
Logic.Application.FuelCell_GVL.HT1_Coolant_Forward_Temperature	Logic.Application	FuelCell_GVL		HT1 Coolant Forward Temperature	FLOAT	°C	1				R	MODBUS	1235	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT1_Coolant_Return_Temperature	Logic.Application	FuelCell_GVL		HT1 Coolant Return Temperature	FLOAT	°C	1				R	MODBUS	1234	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT1-Coolant_Return_Temperature	Logic.Application	FuelCell_GVL		HT1 - Coolant Return Temperature	FLOAT	°C	1				R	MODBUS	1100	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT1-Flowrate	Logic.Application	FuelCell_GVL		HT1 - Flowrate	FLOAT	m3^ h	1				R	MODBUS	1102	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT1-Pump_Inlet_Temperature	Logic.Application	FuelCell_GVL		HT1 - Pump Inlet Temperature	FLOAT	°C	1				R	MODBUS	1101	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT1-Pump_RPM	Logic.Application	FuelCell_GVL		HT1 - Pump RPM	INT16	rpm	1			Not implemented yet by package	R	MODBUS	1103	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT2_Coolant_Forward_Temperature	Logic.Application	FuelCell_GVL		HT2 Coolant Forward Temperature	FLOAT	°C	1				R	MODBUS	1237	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT2_Coolant_Return_Temperature	Logic.Application	FuelCell_GVL		HT2 Coolant Return Temperature	FLOAT	°C	1				R	MODBUS	1236	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT2-Coolant_Return_Temperature	Logic.Application	FuelCell_GVL		HT2 - Coolant Return Temperature	INT16	°C	1			Not implemented yet by package	R	MODBUS	1104	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT2-Flowrate	Logic.Application	FuelCell_GVL		HT2 - Flowrate	INT16	m3^ h	1			Not implemented yet by package	R	MODBUS	1106	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT2-Pump_Inlet_Temperature	Logic.Application	FuelCell_GVL		HT2 - Pump Inlet Temperature	INT16	°C	1			Not implemented yet by package	R	MODBUS	1105	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.HT2-Pump_RPM	Logic.Application	FuelCell_GVL		HT2 - Pump RPM	INT16	rpm	1			Not implemented yet by package	R	MODBUS	1107	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Inhibits_Status_Word	Logic.Application	FuelCell_GVL		Inhibits Status Word	INT16		1		Informing that the FC cannot start	To be developed by package	R	MODBUS	1017	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.LT_Coolant_Return_Temperature	Logic.Application	FuelCell_GVL		LT Coolant Return Temperature	FLOAT	°C	1				R	MODBUS	1232	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.LT_Cooline_Forward_Temperature	Logic.Application	FuelCell_GVL		LT Cooline Forward Temperature	FLOAT	°C	1				R	MODBUS	1233	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.LT-Coolant_Forward_Temperature	Logic.Application	FuelCell_GVL		LT - Coolant Forward Temperature	INT16	°C	1			Not implemented yet by package	R	MODBUS	1109	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.LT-Coolant_Return_Temperature	Logic.Application	FuelCell_GVL		LT - Coolant Return Temperature	INT16	°C	1			Not implemented yet by package	R	MODBUS	1108	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.LT-Flowrate	Logic.Application	FuelCell_GVL		LT - Flowrate	INT16	m3^ h	1			Not implemented yet by package	R	MODBUS	1110	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.LT-Pump_RPM	Logic.Application	FuelCell_GVL		LT - Pump RPM	INT16	rpm	1			Not implemented yet by package	R	MODBUS	1111	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Busbar_Voltage_L1L2	Logic.Application	FuelCell_GVL		Main Busbar Voltage L1L2	FLOAT	V	1				R	MODBUS	1324	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Busbar_Voltage_L1N	Logic.Application	FuelCell_GVL		Main Busbar Voltage L1N	FLOAT	V	1				R	MODBUS	1327	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Busbar_Voltage_L2L3	Logic.Application	FuelCell_GVL		Main Busbar Voltage L2L3	FLOAT	V	1				R	MODBUS	1325	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Busbar_Voltage_L2N	Logic.Application	FuelCell_GVL		Main Busbar Voltage L2N	FLOAT	V	1				R	MODBUS	1328	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Busbar_Voltage_L3L1	Logic.Application	FuelCell_GVL		Main Busbar Voltage L3L1	FLOAT	V	1				R	MODBUS	1326	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Busbar_Voltage_L3N	Logic.Application	FuelCell_GVL		Main Busbar Voltage L3N	FLOAT	V	1				R	MODBUS	1329	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Apparent_Power	Logic.Application	FuelCell_GVL		Main Output Apparent Power	FLOAT	KVA	1				R	MODBUS	1321	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Current_L1	Logic.Application	FuelCell_GVL		Main Output Current L1	INT16	A	1				R	MODBUS	1316	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Current_L2	Logic.Application	FuelCell_GVL		Main Output Current L2	INT16	A	1				R	MODBUS	1317	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Current_L3	Logic.Application	FuelCell_GVL		Main Output Current L3	INT16	A	1				R	MODBUS	1318	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Frequency	Logic.Application	FuelCell_GVL		Main Output Frequency	FLOAT	Hz	1				R	MODBUS	1323	INPUT REGISTER	UINT16
Logic.Application.FuelCell_GVL.Main_Output_Power	Logic.Application	FuelCell_GVL		Main Output Power	FLOAT	KW	1				R	MODBUS	1319	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Power_Factor	Logic.Application	FuelCell_GVL		Main Output Power Factor	FLOAT		1				R	MODBUS	1322	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Reactive_Power	Logic.Application	FuelCell_GVL		Main Output Reactive Power	FLOAT	kvar	1				R	MODBUS	1320	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Voltage_L1L2	Logic.Application	FuelCell_GVL		Main Output Voltage L1L2	FLOAT	v	1				R	MODBUS	1310	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Voltage_L1N	Logic.Application	FuelCell_GVL		Main Output Voltage L1N	FLOAT	v	1				R	MODBUS	1313	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Voltage_L2L3	Logic.Application	FuelCell_GVL		Main Output Voltage L2L3	FLOAT	v	1				R	MODBUS	1311	INPUT REGISTER	INT16

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.FuelCell_GVL.Main_Output_Voltage_L2N	Logic.Application	FuelCell_GVL		Main Output Voltage L2N	FLOAT	v	1				R	MODBUS	1314	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Voltage_L3L1	Logic.Application	FuelCell_GVL		Main Output Voltage L3L1	FLOAT	v	1				R	MODBUS	1312	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Main_Output_Voltage_L3N	Logic.Application	FuelCell_GVL		Main Output Voltage L3N	FLOAT	v	1				R	MODBUS	1315	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Nanogrid_AC_Power	Logic.Application	FuelCell_GVL		Nanogrid AC Power	INT16	kw	1			Not implemented yet by package	R	MODBUS	1040	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Nanogrid_Power	Logic.Application	FuelCell_GVL		Nanogrid Power	FLOAT	kw_DC	1			Not implemented yet by package	R	MODBUS	1344	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.Operatine_state	Logic.Application	FuelCell_GVL		Operatine state	INT16		1			Not implemented yet by package	R	MODBUS	1121	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.P_MAX	Logic.Application	FuelCell_GVL		P_MAX	INT16	kw	1		Total Capacity of FC Package		R	MODBUS	1013	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.P_OPTIMIZED	Logic.Application	FuelCell_GVL		P_OPTIMIZED	INT16		1		Fuel Efficient Power Point	Not implemented yet by package	R	MODBUS	1014	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.PLC_ON_Hour_Meter	Logic.Application	FuelCell_GVL		PLC ON Hour Meter	FLOAT		1			Not implemented yet by package	R	MODBUS	1294	INPUT REGISTER	LINT32
Logic.Application.FuelCell_GVL.StateMain	Logic.Application	FuelCell_GVL		StateMain	INT16		1		Main FC Package Statemachine Index (enumeration) 6: Initialization (Initialize) 10: Sleep (Sleep) 14: Wakeup (StartupContainerVentilation) 17: Wakeup (FCwaveWakeup) 19: Wakeup (HydrogenHeaterStartup) 20: Standby (Standby) 30: Startup (BatteryStartup) 40: Startup (NanogridStartup) 50: Startup (LTCoolanStartup) 60: Startup (MicrogridStartup) 100:Running (Running) 105:Rampdown (RampDownPower) 110:Rampdown (MicrogridShutdown) 120:Rampdown (ChargeBattery) 130:Rampdown (ShutdownFCwaves)		R	MODBUS	1000	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.System_efficiency	Logic.Application	FuelCell_GVL		System efficiency	FLOAT		1	[0.0 ; 1.0]	+/- 5% ACCURACY	Not implemented yet by package	R	MODBUS	1202	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.System_lifetime_produced_energy	Logic.Application	FuelCell_GVL		System lifetime produced energy	UINT32	kWh	1			Not implemented yet by package	R	MODBUS	1221	INPUT REGISTER	UINT32
Logic.Application.FuelCell_GVL.System_ON_Hour_Meter	Logic.Application	FuelCell_GVL		System ON Hour Meter	FLOAT	hrs	1			Not implemented yet by package	R	MODBUS	1292	INPUT REGISTER	LINT32
Logic.Application.FuelCell_GVL.System_shutdown_counter	Logic.Application	FuelCell_GVL		System shutdown counter	INT16		1		ONLY FAULTY SHUTDOWNS ARE COUNTED	Not implemented yet by package	R	MODBUS	1309	INPUT REGISTER	INT16
Logic.Application.FuelCell_GVL.System_start_counter	Logic.Application	FuelCell_GVL		System start counter	INT16		1			Not implemented yet by package	R	MODBUS	1302	INPUT REGISTER	INT16
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_M3CH1_LCCH1_ChLiv	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	M3CH1_LCCH1_ChLiv	BOOL		1		Status	Physical channel status (Station bus)	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_M3CH1_LCCH1_RedChLiv	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	M3CH1_LCCH1_RedChLiv	BOOL		1		Status	Physical channel status of redundant channel (Station bus)	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_M2CH1_LCCH1_ChLiv	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	M2CH1_LCCH1_ChLiv	BOOL		1		Status	Physical channel status (Process bus)	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_M2CH1_LCCH1_RedChLiv	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	M2CH1_LCCH1_RedChLiv	BOOL		1		Status	Physical channel status of redundant channel (Process bus)	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_LPHD0_PhyHealth	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	LPHD0_PhyHealth	DINT		1		Status	IED physical device health	R	IEC-61850			DINT
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_LTMSGGIO0_Ind001	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	LTMSGGIO0_Ind001	BOOL		1		Status	Time synchronized	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_LHPDGGIO0_Health	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	LHPDGGIO0_Health	DINT		1		Status	Memory fail alarm	R	IEC-61850			DINT
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_LLNGGIO0_Health	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	LLNGGIO0_Health	DINT		1		Status	Process bus processor fail alarm	R	IEC-61850			DINT
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_CALH1_GrAlm	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	CALH1_GrAlm	BOOL		1		Status	Sampled value Sub. fail alarm	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_LLNGGIO0_Ind001	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	LLNGGIO0_Ind001	BOOL		1		Status	IED Locla/Remote Status	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_USERGGIO1_Ind001	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	USERGGIO1_Ind001	BOOL		1		Status	7SJ85 Relay Failure	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTRC5_Op	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTRC5_Op	BOOL		1		Status	Level 1 87T pick-up General	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTRC5_Str	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTRC5_Str	BOOL		1		Status	Level 1 87T operation General	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PDIF1_Op	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PDIF1_Op	BOOL		1		Status	Level 1 87N pick-up General	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PDIF1_Str	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PDIF1_Str	BOOL		1		Status	Level 1 87N operation General	R	IEC-61850			BOOL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_phsA_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_phsA_mag	REAL		1		Measure	TR 1st side(FDR_P1) A Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_phsB_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_phsB_mag	REAL		1		Measure	TR 1st side(FDR_P1) A Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_phsC_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_phsC_mag	REAL		1		Measure	TR 1st side(FDR_P1) B Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_res_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_res_mag	REAL		1		Measure	TR 1st side(FDR_P1) B Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_phsA_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_phsA_ang	REAL		1		Measure	TR 1st side(FDR_P1) C Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_phsB_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_phsB_ang	REAL		1		Measure	TR 1st side(FDR_P1) C Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_phsC_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_phsC_ang	REAL		1		Measure	TR 1st side(FDR_P1) N Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU1_A_res_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU1_A_res_ang	REAL		1		Measure	TR 1st side(FDR_P1) N Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_phsA_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_phsA_mag	REAL		1		Measure	TR 1st side(FDR_P2) A Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_phsB_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_phsB_mag	REAL		1		Measure	TR 1st side(FDR_P2) A Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_phsC_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_phsC_mag	REAL		1		Measure	TR 1st side(FDR_P2) B Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_res_mag	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_res_mag	REAL		1		Measure	TR 1st side(FDR_P2) B Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_phsA_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_phsA_ang	REAL		1		Measure	TR 1st side(FDR_P2) C Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_phsB_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_phsB_ang	REAL		1		Measure	TR 1st side(FDR_P2) C Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_phsC_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_phsC_ang	REAL		1		Measure	TR 1st side(FDR_P2) N Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_Vt3p2MMXU1_A_res_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	Vt3p2MMXU1_A_res_ang	REAL		1		Measure	TR 1st side(FDR_P2) N Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_phsA	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_phsA	REAL		1		Measure	TR 2nd side A Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_phsB	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_phsB	REAL		1		Measure	TR 2nd side A Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_phsC	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_phsC	REAL		1		Measure	TR 2nd side B Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_res	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_res	REAL		1		Measure	TR 2nd side B Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_phsA_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_phsA_ang	REAL		1		Measure	TR 2nd side C Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_phsB_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_phsB_ang	REAL		1		Measure	TR 2nd side C Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_phsC_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_phsC_ang	REAL		1		Measure	TR 2nd side N Phase currents magnitude	R	IEC-61850			REAL
Logic.Application.BLPH_EW100_GVL.BLPH_EW100_PTSMMXU2_A_res_ang	Logic.Application	BLPH_EW100_GVL	BLPH_EW100	PTSMMXU2_A_res_ang	REAL		1		Measure	TR 2nd side N Phase currents angle	R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_M3CH1_LCCH1_ChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	M3CH1_LCCH1_ChLiv	BOOL		1		Status	Physical channel status (Station bus) EMCS	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_M3CH1_LCCH1_RedChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	M3CH1_LCCH1_RedChLiv	BOOL		1		Status	Physical channel status of redundant channel (Station bus) EMCS	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_M4CH1_LCCH1_ChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	M4CH1_LCCH1_ChLiv	BOOL		1		Status	Physical channel status (Station bus) HV SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_M4CH1_LCCH1_RedChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	M4CH1_LCCH1_RedChLiv	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_M2CH1_LCCH1_ChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	M2CH1_LCCH1_ChLiv	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_M2CH1_LCCH1_RedChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	M2CH1_LCCH1_RedChLiv	DINT		1		Status		R	IEC-61850			DINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_LPHD0_PhyHealth_DINT	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	LPHD0_PhyHealth_DINT	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_LTMSGGIO0_TmSynErr	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	LTMSGGIO0_TmSynErr	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_GOOSECALH1_GrAlm	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	GOOSECALH1_GrAlm	DINT		1		Status		R	IEC-61850			DINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_LPHDGGIO0_FltDbAlmth	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	LPHDGGIO0_FltDbAlmth	DINT		1		Status		R	IEC-61850			DINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_LLN0_Health_DINT	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	LLN0_Health_DINT	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_COMSUPCALH1_GrAlm	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	COMSUPCALH1_GrAlm	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_LLNGGIO0_LocKey	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	LLNGGIO0_LocKey	BOOL		1		Status		W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_On	BOOL		1		Control		W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_Off	BOOL		1		Control		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_Status	BOOL		1		Status		W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_On_HMI	BOOL		1		Control		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_Off_HMI	BOOL		1		Control		W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_Intermediate	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_Intermediate	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_On	BOOL		1		Status		W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_Off	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CB1CSWI4_Pos_Bad	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CB1CSWI4_Pos_Bad	BOOL		1		Status		W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1CSWI1_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1CSWI1_Pos_On	BOOL		1		Control		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1CSWI1_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1CSWI1_Pos_Off	BOOL		1		Control		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1CSWI1_Pos_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1CSWI1_Pos_Status	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1CSWI1_Pos_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1CSWI1_Pos_On_HMI	BOOL		1		Control		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1CSWI1_Pos_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1CSWI1_Pos_Off_HMI	BOOL		1		Control		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2SWI2_Pos_Intermediate	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2SWI2_Pos_Intermediate	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2SWI2_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2SWI2_Pos_On	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2SWI2_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2SWI2_Pos_Off	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2SWI2_Pos_Bad	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2SWI2_Pos_Bad	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4KSWI4_Pos_Intermediate	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4KSWI4_Pos_Intermediate	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4KSWI4_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4KSWI4_Pos_On	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4KSWI4_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4KSWI4_Pos_Off	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4KSWI4_Pos_Bad	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4KSWI4_Pos_Bad	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3CSWI3_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3CSWI3_Pos_On	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3CSWI3_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3CSWI3_Pos_Off	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3CSWI3_Pos_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3CSWI3_Pos_Status	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3CSWI3_Pos_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3CSWI3_Pos_On_HMI	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3CSWI3_Pos_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3CSWI3_Pos_Off_HMI	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CBC1CSWI6_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CBC1CSWI6_Pos_On	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CBC1CSWI6_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CBC1CSWI6_Pos_Off	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CBC1CSWI6_Pos_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CBC1CSWI6_Pos_Status	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CBC1CSWI6_Pos_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CBC1CSWI6_Pos_On_HMI	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_CBC1CSWI6_Pos_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	CBC1CSWI6_Pos_Off_HMI	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1XSWI1_Pos_Intermediate	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1XSWI1_Pos_Intermediate	BOOL		1		Status	DS Q291 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1XSWI1_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1XSWI1_Pos_On	BOOL		1		Status	DS Q291 status For HV-SCADA	W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1XSWI1_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1XSWI1_Pos_Off	BOOL		1		Status	DS Q291 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC1XSWI1_Pos_Bad	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC1XSWI1_Pos_Bad	BOOL		1		Status	DS Q291 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2CSWI2_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2CSWI2_Pos_On	BOOL		1		Control	DS Q292 control For HV-SCADA	R	IEC-61850			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2CSWI2_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2CSWI2_Pos_Off	BOOL		1		Control	DS QZ92 control For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2CSWI2_Pos_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2CSWI2_Pos_Status	BOOL		1		Status	DS QZ92 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2CSWI2_Pos_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2CSWI2_Pos_On_HMI	BOOL		1		Control	DS QZ92 control For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC2CSWI2_Pos_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC2CSWI2_Pos_Off_HMI	BOOL		1		Control	DS QZ92 control For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3XSWI3_Pos_Intermediate	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3XSWI3_Pos_Intermediate	BOOL		1		Status	ES QZ91 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3XSWI3_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3XSWI3_Pos_On	BOOL		1		Status	ES QZ91 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3XSWI3_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3XSWI3_Pos_Off	BOOL		1		Status	ES QZ91 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC3XSWI3_Pos_Bad	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC3XSWI3_Pos_Bad	BOOL		1		Status	ES QZ91 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4CSWI5_Pos_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4CSWI5_Pos_On	BOOL		1		Control	ES QZ92 control For HV-SCADA	W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4CSWI5_Pos_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4CSWI5_Pos_Off	BOOL		1		Control	ES QZ92 control For HV-SCADA	W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4CSWI5_Pos_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4CSWI5_Pos_Status	BOOL		1		Status	ES QZ92 status For HV-SCADA	R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4CSWI5_Pos_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4CSWI5_Pos_On_HMI	BOOL		1		Control	ES QZ92 control For HV-SCADA	W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_DC4CSWI5_Pos_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	DC4CSWI5_Pos_Off_HMI	BOOL		1		Control	ES QZ92 control For HV-SCADA	W	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS1	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS1	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS2	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS2	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS3	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS3	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS4	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS4	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS5	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS5	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS6	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS6	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS7	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS7	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS8	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS8	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS9	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS9	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS10	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS10	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS11	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS11	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS12	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS12	BOOL		1		Status		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS13	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS13	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS14	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS14	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS15	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS15	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS16	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS16	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS17	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS17	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS18	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS18	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS19	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS19	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS20	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS20	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS21	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS21	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS22	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS22	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS23	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS23	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS24	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS24	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPC_On	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPC_On	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPC_Off	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPC_Off	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPC_Status	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPC_Status	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPC_On_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPC_On_HMI	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPC_Off_HMI	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPC_Off_HMI	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS25	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS25	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS26	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS26	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS27	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS27	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS28	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS28	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS29	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS29	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS30	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS30	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS32_RxChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS32_RxChLiv	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS33_RxRedChLiv	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS33_RxRedChLiv	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_InInt001_RxPhyHealth	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_InInt001_RxPhyHealth	DINT		1		Measure		R	IEC-61850			DINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_InInt002_RxTmSyn	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_InInt002_RxTmSyn	DINT		1		Measure		R	IEC-61850			DINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS34_RxInd005	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS34_RxInd005	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS35_RxInd012	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS35_RxInd012	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS36_RxInd030	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS36_RxInd030	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS37_RxInd020SC1	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS37_RxInd020SC1	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS38_RxInd021SC1	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS38_RxInd021SC1	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS39_RxInd022SC1	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS39_RxInd022SC1	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS40_RxInd020SC2	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS40_RxInd020SC2	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS41_RxInd021SC2	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS41_RxInd021SC2	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS42_RxInd022SC2	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS42_RxInd022SC2	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS43_RxInd020SC3	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS43_RxInd020SC3	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS44_RxInd021SC3	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS44_RxInd021SC3	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS45_RxInd022SC3	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS45_RxInd022SC3	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS46_RxInd020SC4	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS46_RxInd020SC4	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS47_RxInd021SC4	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS47_RxInd021SC4	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_USERGGIO1_SPS48_RxInd022SC4	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	USERGGIO1_SPS48_RxInd022SC4	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_OC3phase1IDPTOC1_Op	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	OC3phase1IDPTOC1_Op	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_OC3phase1IIPTOC1_Str	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	OC3phase1IIPTOC1_Str	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_OC3phase1IIPTOC1_Op	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	OC3phase1IIPTOC1_Op	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_NOCgndA1NIPTOC1_Str	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	NOCgndA1NIPTOC1_Str	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_NOCgndA1NIPTOC1_Op	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	NOCgndA1NIPTOC1_Op	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_NOCgndPHA1PTRC1_Str	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	NOCgndPHA1PTRC1_Str	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_NOCgndPHA1PTRC1_Op	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	NOCgndPHA1PTRC1_Op	BOOL		1		Measure		R	IEC-61850			BOOL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PPV_phsAB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PPV_phsAB_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PPV_phsBC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PPV_phsBC_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PPV_phsCA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PPV_phsCA_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_phsA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_phsA_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_phsB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_phsB_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_phsC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_phsC_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_res_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_res_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PPV_phsAB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PPV_phsAB_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PPV_phsBC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PPV_phsBC_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PPV_phsCA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PPV_phsCA_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_phsA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_phsA_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_phsB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_phsB_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_phsC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_phsC_Mag	REAL		1		Measure		R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_res_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_res_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PPV_phsAB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PPV_phsAB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PPV_phsBC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PPV_phsBC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PPV_phsCA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PPV_phsCA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_phsA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_phsA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_phsB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_phsB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_phsC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_phsC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV1MMXU3_PhV_res_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV1MMXU3_PhV_res_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PPV_phsAB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PPV_phsAB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PPV_phsBC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PPV_phsBC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PPV_phsCA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PPV_phsCA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_phsA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_phsA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_phsB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_phsB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_phsC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_phsC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREV2MMXU1_PhV_res_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREV2MMXU1_PhV_res_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_TotW	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_TotW	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_TotVAr	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_TotVAr	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_TotVA	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_TotVA	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_TotPF	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_TotPF	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_Hz	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_Hz	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PPV_phsAB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PPV_phsAB_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PPV_phsBC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PPV_phsBC_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PPV_phsCA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PPV_phsCA_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_phsA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_phsA_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_phsB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_phsB_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_phsC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_phsC_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_res_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_res_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_phsA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_phsA_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_phsB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_phsB_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_phsC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_phsC_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_res_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_res_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PPV_phsAB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PPV_phsAB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PPV_phsBC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PPV_phsBC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PPV_phsCA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PPV_phsCA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_phsA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_phsA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_phsB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_phsB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_phsC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_phsC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_PhV_res_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_PhV_res_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_phsA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_phsA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_phsB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_phsB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_phsC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_phsC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI1MMXU1_A_res_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI1MMXU1_A_res_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_W_phsA	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_W_phsA	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_W_phsB	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_W_phsB	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_W_phsC	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_W_phsC	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_VAr_phsA	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_VAr_phsA	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_VAr_phsB	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_VAr_phsB	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI1MMXU1_VAr_phsC	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI1MMXU1_VAr_phsC	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI1MMTR1_DmdWh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI1MMTR1_DmdWh	LINT		1				R	IEC-61850			LINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI1MMTR1_SupVArh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI1MMTR1_SupVArh	LINT		1				R	IEC-61850			LINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI1MMTR1_DmdVArh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI1MMTR1_DmdVArh	LINT		1				R	IEC-61850			LINT

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI1MMTR1_SupWh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI1MMTR1_SupWh	LINT		1				R	IEC-61850			LINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_TotW	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_TotW	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_TotVAr	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_TotVAr	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_TotVA	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_TotVA	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_TotPF	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_TotPF	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_Hz	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_Hz	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PPV_phsAB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PPV_phsAB_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PPV_phsBC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PPV_phsBC_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PPV_phsCA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PPV_phsCA_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_phsA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_phsA_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_phsB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_phsB_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_phsC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_phsC_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_res_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_res_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_phsA_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_phsA_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_phsB_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_phsB_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_phsC_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_phsC_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_res_Mag	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_res_Mag	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PPV_phsAB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PPV_phsAB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PPV_phsBC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PPV_phsBC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PPV_phsCA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PPV_phsCA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_phsA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_phsA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_phsB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_phsB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_phsC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_phsC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_PhV_res_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_PhV_res_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_phsA_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_phsA_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_phsB_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_phsB_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_phsC_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_phsC_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_FPREVI2MMXU1_A_res_Ang	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	FPREVI2MMXU1_A_res_Ang	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_W_phsA	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_W_phsA	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_W_phsB	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_W_phsB	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_W_phsC	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_W_phsC	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_VAr_phsA	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_VAr_phsA	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_VAr_phsB	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_VAr_phsB	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_PPREVI2MMXU1_VAr_phsC	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	PPREVI2MMXU1_VAr_phsC	REAL		1				R	IEC-61850			REAL
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI2MMTR1_DmdWh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI2MMTR1_DmdWh	LINT		1				R	IEC-61850			LINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI2MMTR1_SupVArh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI2MMTR1_SupVArh	LINT		1				R	IEC-61850			LINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI2MMTR1_DmdVArh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI2MMTR1_DmdVArh	LINT		1				R	IEC-61850			LINT
Logic.Application.BLPH_EW200_GVL.BLPH_EW200_XPREVI2MMTR1_SupWh	Logic.Application	BLPH_EW200_GVL	BLPH_EW200	XPREVI2MMTR1_SupWh	LINT		1				R	IEC-61850			LINT
Logic.Application.SG_100D1.A2_TR_200ED1_FPREV2MMXU1_PPV_phsBC_Mag	Logic.Application	SG_100D1	A2_TR_200ED1	FPREV2MMXU1_PPV_phsBC_Mag	BOOL		1				R	IEC-61850			BOOL
Logic.Application.SG_100D1.FPREV2MMXU1_PPV_phsBC_Ang	Logic.Application	SG_100D1		FPREV2MMXU1_PPV_phsBC_Ang	BOOL		1				R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PPV_phsAB_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PPV_phsAB_Mag	BOOL		1		PROTECTION TRIPPED "50-1"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PPV_phsAB_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PPV_phsAB_Ang	BOOL		1		PROTECTION TRIPPED "51-1"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_res_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_res_Mag	BOOL		1		PROTECTION TRIPPED "51N"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_res_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_res_Ang	BOOL		1		PROTECTION TRIPPED "59N"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_phsC_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_phsC_Mag	BOOL		1		PROTECTION TRIPPED "27-1"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_phsC_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_phsC_Ang	BOOL		1		PROTECTION TRIPPED "59-1"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_phsB_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_phsB_Mag	BOOL		1		SELECTOR SWITCH IN LOCAL POSITION	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_phsB_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_phsB_Ang	BOOL		1		SELECTOR SWITCH IN REMOTE POSITION	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_phsA_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_phsA_Mag	FLOAT		1		Line Current (L1)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV2MMXU1_PhV_phsA_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV2MMXU1_PhV_phsA_Ang	FLOAT		1		Line Current (L2)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PPV_phsCA_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PPV_phsCA_Mag	FLOAT		1		Line Current (L3)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PPV_phsCA_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PPV_phsCA_Ang	FLOAT		1		Line Volts (L1-L2)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PPV_phsBC_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PPV_phsBC_Mag	FLOAT		1		Line Volts (L2-L3)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PPV_phsBC_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PPV_phsBC_Ang	FLOAT		1		Line Volts (L3-L1)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PPV_phsAB_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PPV_phsAB_Mag	FLOAT		1		Frequency	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PPV_phsAB_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PPV_phsAB_Ang	FLOAT		1		APPARENT POWER (kVA)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_res_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_res_Mag	FLOAT		1		REAL POWER (kW)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_res_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_res_Ang	FLOAT		1		REACTIVE POWER (kVAR)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_phsC_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_phsC_Mag	FLOAT		1		POWER FACTOR	SG100D1_A1_ELECTROLYZER	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_phsC_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_phsC_Ang	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_phsB_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_phsB_Mag	BOOL		1		TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_phsB_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_phsB_Ang	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_phsA_Mag	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_phsA_Mag	BOOL		1		TRANSFORMER PROTECTION ALARM "OIL PRESSURE"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.FPREV1MMXU3_PhV_phsA_Ang	Logic.Application	SG_100D1_A1_GVL		FPREV1MMXU3_PhV_phsA_Ang	BOOL		1		TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4XSWI4_Pos_On	Logic.Application	SG_100D1_A1_GVL		DC4XSWI4_Pos_On	BOOL		1		TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4XSWI4_Pos_Off	Logic.Application	SG_100D1_A1_GVL		DC4XSWI4_Pos_Off	BOOL		1		WATCHDOG PROTECTION RELAY	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4XSWI4_Pos_Intermediate	Logic.Application	SG_100D1_A1_GVL		DC4XSWI4_Pos_Intermediate	BOOL		1		V.T. HEALTHY CIRCUIT	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4XSWI4_Pos_Bad	Logic.Application	SG_100D1_A1_GVL		DC4XSWI4_Pos_Bad	BOOL		1		INTERTRIP SEND TO L.V. SWITCHBOARD	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4CSWI5_Pos_Status	Logic.Application	SG_100D1_A1_GVL		DC4CSWI5_Pos_Status	BOOL		1		K86 TRIPPED	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4CSWI5_Pos_On_HMI	Logic.Application	SG_100D1_A1_GVL		DC4CSWI5_Pos_On_HMI	BOOL		1		C.B. CLOSED AND INSERTED	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4CSWI5_Pos_On	Logic.Application	SG_100D1_A1_GVL		DC4CSWI5_Pos_On	BOOL		1		C.B. OPENED OR ISOLATED	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4CSWI5_Pos_Off_HMI	Logic.Application	SG_100D1_A1_GVL		DC4CSWI5_Pos_Off_HMI	BOOL		1		MCB'S CLOSED	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC4CSWI5_Pos_Off	Logic.Application	SG_100D1_A1_GVL		DC4CSWI5_Pos_Off	BOOL		1		C.B. READY (TCS)	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3XSWI3_Pos_On	Logic.Application	SG_100D1_A1_GVL		DC3XSWI3_Pos_On	BOOL		1		C.B. READY TO CLOSE	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3XSWI3_Pos_Off	Logic.Application	SG_100D1_A1_GVL		DC3XSWI3_Pos_Off	BOOL		1		OPENING COMMAND - On Command	SG100D1_A1_ELECTROLYZER	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3XSWI3_Pos_Intermediate	Logic.Application	SG_100D1_A1_GVL		DC3XSWI3_Pos_Intermediate	BOOL		1		OPENING COMMAND - Off Command	SG100D1_A1_ELECTROLYZER	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3XSWI3_Pos_Bad	Logic.Application	SG_100D1_A1_GVL		DC3XSWI3_Pos_Bad	BOOL		1		CLOSING COMMAND - On Command	SG100D1_A1_ELECTROLYZER	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3CSWI3_Pos_Status	Logic.Application	SG_100D1_A1_GVL		DC3CSWI3_Pos_Status	BOOL		1		CLOSING COMMAND - Off Command	SG100D1_A1_ELECTROLYZER	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3CSWI3_Pos_On_HMI	Logic.Application	SG_100D1_A1_GVL		DC3CSWI3_Pos_On_HMI	BOOL		1		K86 RESET COMMAND - On Command	SG100D1_A1_ELECTROLYZER	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3CSWI3_Pos_On	Logic.Application	SG_100D1_A1_GVL		DC3CSWI3_Pos_On	BOOL		1		K86 RESET COMMAND - Off Command	SG100D1_A1_ELECTROLYZER	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A1_GVL.DC3CSWI3_Pos_Off_HMI	Logic.Application	SG_100D1_A1_GVL		DC3CSWI3_Pos_Off_HMI	BOOL		1		PROTECTION RELAY UNIT 7 HEALTHY	SG100D1_A1_ELECTROLYZER	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC3CSWI3_Pos_Off	Logic.Application	SG_100D1_A2_GVL		DC3CSWI3_Pos_Off	BOOL		1		PROTECTION TRIPPED "50-1"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2XSWI2_Pos_On	Logic.Application	SG_100D1_A2_GVL		DC2XSWI2_Pos_On	BOOL		1		PROTECTION TRIPPED "51-1"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2XSWI2_Pos_Off	Logic.Application	SG_100D1_A2_GVL		DC2XSWI2_Pos_Off	BOOL		1		PROTECTION TRIPPED "51N"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2XSWI2_Pos_Intermediate	Logic.Application	SG_100D1_A2_GVL		DC2XSWI2_Pos_Intermediate	BOOL		1		SYNCHRO "OK"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2XSWI2_Pos_Bad	Logic.Application	SG_100D1_A2_GVL		DC2XSWI2_Pos_Bad	BOOL		1		PROTECTION TRIPPED "59N-1"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2CSWI2_Pos_Status	Logic.Application	SG_100D1_A2_GVL		DC2CSWI2_Pos_Status	BOOL		1		PROTECTION TRIPPED "59N-2"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2CSWI2_Pos_On_HMI	Logic.Application	SG_100D1_A2_GVL		DC2CSWI2_Pos_On_HMI	BOOL		1		PROTECTION TRIPPED "27-1"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2CSWI2_Pos_On	Logic.Application	SG_100D1_A2_GVL		DC2CSWI2_Pos_On	BOOL		1		PROTECTION TRIPPED "27-2"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2CSWI2_Pos_Off_HMI	Logic.Application	SG_100D1_A2_GVL		DC2CSWI2_Pos_Off_HMI	BOOL		1		PROTECTION TRIPPED "59-1"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC2CSWI2_Pos_Off	Logic.Application	SG_100D1_A2_GVL		DC2CSWI2_Pos_Off	BOOL		1		PROTECTION TRIPPED "59-2"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC1XSWI1_Pos_On	Logic.Application	SG_100D1_A2_GVL		DC1XSWI1_Pos_On	BOOL		1		PROTECTION TRIPPED "67-1"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC1XSWI1_Pos_Off	Logic.Application	SG_100D1_A2_GVL		DC1XSWI1_Pos_Off	BOOL		1		PROTECTION TRIPPED "67-2"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC1XSWI1_Pos_Intermediate	Logic.Application	SG_100D1_A2_GVL		DC1XSWI1_Pos_Intermediate	BOOL		1		SELECTOR SWITCH IN LOCAL POSITION	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC1XSWI1_Pos_Bad	Logic.Application	SG_100D1_A2_GVL		DC1XSWI1_Pos_Bad	BOOL		1		SELECTOR SWITCH IN REMOTE POSITION	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.DC1CSWI1_Pos_Status	Logic.Application	SG_100D1_A2_GVL		DC1CSWI1_Pos_Status	FLOAT		1		Line Current (L1)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.DC1CSWI1_Pos_On_HMI	Logic.Application	SG_100D1_A2_GVL		DC1CSWI1_Pos_On_HMI	FLOAT		1		Line Current (L2)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.DC1CSWI1_Pos_On	Logic.Application	SG_100D1_A2_GVL		DC1CSWI1_Pos_On	FLOAT		1		Line Current (L3)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.DC1CSWI1_Pos_Off_HMI	Logic.Application	SG_100D1_A2_GVL		DC1CSWI1_Pos_Off_HMI	FLOAT		1		Line Volts (L1-L2)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.DC1CSWI1_Pos_Off	Logic.Application	SG_100D1_A2_GVL		DC1CSWI1_Pos_Off	FLOAT		1		Line Volts (L2-L3)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.COMSUPCALH1_GrAlm	Logic.Application	SG_100D1_A2_GVL		COMSUPCALH1_GrAlm	FLOAT		1		Line Volts (L3-L1)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.CBC1CSWI6_Pos_Status	Logic.Application	SG_100D1_A2_GVL		CBC1CSWI6_Pos_Status	FLOAT		1		Frequency	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.CBC1CSWI6_Pos_On_HMI	Logic.Application	SG_100D1_A2_GVL		CBC1CSWI6_Pos_On_HMI	FLOAT		1		APPARENT POWER (kVA)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.CBC1CSWI6_Pos_On	Logic.Application	SG_100D1_A2_GVL		CBC1CSWI6_Pos_On	FLOAT		1		REAL POWER (kW)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.CBC1CSWI6_Pos_Off_HMI	Logic.Application	SG_100D1_A2_GVL		CBC1CSWI6_Pos_Off_HMI	FLOAT		1		REACTIVE POWER (kVAR)	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.CBC1CSWI6_Pos_Off	Logic.Application	SG_100D1_A2_GVL		CBC1CSWI6_Pos_Off	FLOAT		1		POWER FACTOR	SG100D1_A2_TR_200ED1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A2_GVL.CB1XCSWI4_Pos_On	Logic.Application	SG_100D1_A2_GVL		CB1XCSWI4_Pos_On	BOOL		1		TRANSFORMER PROTECTION TRIPPED "BUCHHOLZ"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1XCSWI4_Pos_Off	Logic.Application	SG_100D1_A2_GVL		CB1XCSWI4_Pos_Off	BOOL		1		TRANSFORMER PROTECTION ALARM "BUCHHOLZ"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1XCSWI4_Pos_Intermediate	Logic.Application	SG_100D1_A2_GVL		CB1XCSWI4_Pos_Intermediate	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1XCSWI4_Pos_Bad	Logic.Application	SG_100D1_A2_GVL		CB1XCSWI4_Pos_Bad	BOOL		1		TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1CSWI4_Pos_Status	Logic.Application	SG_100D1_A2_GVL		CB1CSWI4_Pos_Status	BOOL		1		TRANSFORMER PROTECTION TRIP "OIL PRESSURE"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1CSWI4_Pos_On_HMI	Logic.Application	SG_100D1_A2_GVL		CB1CSWI4_Pos_On_HMI	BOOL		1		TRANSF. OIL LEVEL VERY LOW ALARM	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1CSWI4_Pos_On	Logic.Application	SG_100D1_A2_GVL		CB1CSWI4_Pos_On	BOOL		1		TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1CSWI4_Pos_Off_HMI	Logic.Application	SG_100D1_A2_GVL		CB1CSWI4_Pos_Off_HMI	BOOL		1		TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.CB1CSWI4_Pos_Off	Logic.Application	SG_100D1_A2_GVL		CB1CSWI4_Pos_Off	BOOL		1		TRANSF. GENERAL ALARM	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_LPHD1_PhyHealth	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_LPHD1_PhyHealth	BOOL		1		WATCHDOG PROTECTION RELAY	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SCBIGGIO1_Ind2	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SCBIGGIO1_Ind2	BOOL		1		V.T. HEALTHY CIRCUIT	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_MVGAPC1_SPCSO4	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_MVGAPC1_SPCSO4	BOOL		1		INTERTRIP SEND TO L.V. SWITCHBOARD	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SBBIGGIO1_Ind7	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SBBIGGIO1_Ind7	BOOL		1		K86 TRIPPED	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_MVGAPC1_SPCSO8	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_MVGAPC1_SPCSO8	BOOL		1		Contactor CLOSED AND INSERTED	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_MVGAPC2_SPCSO2	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_MVGAPC2_SPCSO2	BOOL		1		Contactor OPENED OR ISOLATED	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_MVGAPC2_SPCSO3	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_MVGAPC2_SPCSO3	BOOL		1		MCB'S CLOSED	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_TCSSCBR1_CircAlm	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_TCSSCBR1_CircAlm	BOOL		1		Contactor READY (TCS)	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_MVGAPC2_SPCSO1	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_MVGAPC2_SPCSO1	BOOL		1		Contactor READY TO CLOSE	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SPCGAPC2_SPCSO002_On	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SPCGAPC2_SPCSO002_On	BOOL		1		OPENING COMMAND - On Command	SG100D1_A2_TR_200ED1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SPCGAPC2_SPCSO002_Off	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SPCGAPC2_SPCSO002_Off	BOOL		1		OPENING COMMAND - Off Command	SG100D1_A2_TR_200ED1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SPCGAPC1_SPCSO001_On	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SPCGAPC1_SPCSO001_On	BOOL		1		CLOSING COMMAND - On Command	SG100D1_A2_TR_200ED1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SPCGAPC1_SPCSO001_Off	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SPCGAPC1_SPCSO001_Off	BOOL		1		CLOSING COMMAND - Off Command	SG100D1_A2_TR_200ED1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SPCGAPC1_SPCSO003_On	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SPCGAPC1_SPCSO003_On	BOOL		1		K86 RESET COMMAND - On Command	SG100D1_A2_TR_200ED1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SPCGAPC1_SPCSO003_Off	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SPCGAPC1_SPCSO003_Off	BOOL		1		K86 RESET COMMAND - Off Command	SG100D1_A2_TR_200ED1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SDBIGGIO1_Ind8	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SDBIGGIO1_Ind8	BOOL		1		PROTECTION RELAY UNIT 1 HEALTHY	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A2_GVL.SG_100D1_A2_SDBIGGIO1_Ind9	Logic.Application	SG_100D1_A2_GVL		SG_100D1_A2_SDBIGGIO1_Ind9	BOOL		1		SELECTOR SWITCH OF OVERRIDE IN OFF (SIL ENABLED)	SG100D1_A2_TR_200ED1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PHIPTOC1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PHIPTOC1_Op	BOOL	-	1		PROTECTION TRIPPED "50-1"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PHLPTOC1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PHLPTOC1_Op	BOOL	-	1		PROTECTION TRIPPED "51-1"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_EFLPTOC1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_EFLPTOC1_Op	BOOL	-	1		PROTECTION TRIPPED "51N"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_LEDGGIO1_Ind3	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_LEDGGIO1_Ind3	BOOL	-	1		SYNCHRO "OK"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_ROVPTOV1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_ROVPTOV1_Op	BOOL	-	1		PROTECTION TRIPPED "59N-1"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_ROVPTOV2_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_ROVPTOV2_Op	BOOL	-	1		PROTECTION TRIPPED "59N-2"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PHPTUV1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PHPTUV1_Op	BOOL	-	1		PROTECTION TRIPPED "27-1"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PHPTUV2_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PHPTUV2_Op	BOOL	-	1		PROTECTION TRIPPED "27-2"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PHPTOV1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PHPTOV1_Op	BOOL	-	1		PROTECTION TRIPPED "59-1"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PHPTOV2_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PHPTOV2_Op	BOOL	-	1		PROTECTION TRIPPED "59-2"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_DPHLPTOC1_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_DPHLPTOC1_Op	BOOL	-	1		PROTECTION TRIPPED "67-1"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_DPHLPTOC2_Op	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_DPHLPTOC2_Op	BOOL	-	1		PROTECTION TRIPPED "67-2"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC1_SPCSO6	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC1_SPCSO6	BOOL	-	1		SELECTOR SWITCH IN LOCAL POSITION	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC1_SPCSO7	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC1_SPCSO7	BOOL	-	1		SELECTOR SWITCH IN REMOTE POSITION	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_CMMXU1_A_phsA	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_CMMXU1_A_phsA	FLOAT	A	1		Line Current (L1)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_CMMXU1_A_phsB	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_CMMXU1_A_phsB	FLOAT	A	1		Line Current (L2)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_CMMXU1_A_phsC	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_CMMXU1_A_phsC	FLOAT	A	1		Line Current (L3)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_VMMXU1_PPV_phsAB	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_VMMXU1_PPV_phsAB	FLOAT	V	1		Line Volts (L1-L2)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_VMMXU1_PPV_phsBC	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_VMMXU1_PPV_phsBC	FLOAT	V	1		Line Volts (L2-L3)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_VMMXU1_PPV_phsCA	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_VMMXU1_PPV_phsCA	FLOAT	V	1		Line Volts (L3-L1)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_FMMXU1_Hz	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_FMMXU1_Hz	FLOAT	Hz	1		Frequency	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PEMMXU1_TotVA	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PEMMXU1_TotVA	FLOAT	kVA	1		APPARENT POWER (kVA)	SG100D1_A3_BESS	R	IEC-61850			Analog
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PEMMXU1_TotW	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PEMMXU1_TotW	FLOAT	kW	1		REAL POWER (kW)	SG100D1_A3_BESS	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PEMMXU1_TotVAr	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PEMMXU1_TotVAr	FLOAT	kVAR	1		REACTIVE POWER (kVAR)	SG100D1_A3_BESS	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_PEMMXU1_TotPF	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_PEMMXU1_TotPF	FLOAT	COSfi	1		POWER FACTOR	SG100D1_A3_BESS	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SCBIGGIO1_Ind14	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SCBIGGIO1_Ind14	BOOL	-	1		TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SCBIGGIO1_Ind13	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SCBIGGIO1_Ind13	BOOL	-	1		TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_LPHD1_PhyHealth	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_LPHD1_PhyHealth	BOOL	-	1		WATCHDOG PROTECTION RELAY	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SCBIGGIO1_Ind2	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SCBIGGIO1_Ind2	BOOL	-	1		V.T. HEALTHY CIRCUIT	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC1_SPCSO4	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC1_SPCSO4	BOOL	-	1		INTERTRIP SEND TO L.V. SWITCHBOARD	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SBBIGGIO1_Ind7	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SBBIGGIO1_Ind7	BOOL	-	1		K86 TRIPPED	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC1_SPCSO8	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC1_SPCSO8	BOOL	-	1		Contactor CLOSED AND INSERTED	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC2_SPCSO2	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC2_SPCSO2	BOOL	-	1		Contactor OPENED OR ISOLATED	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC2_SPCSO3	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC2_SPCSO3	BOOL	-	1		MCB'S CLOSED	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_TCSSCBR1_CircAlm	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_TCSSCBR1_CircAlm	BOOL	-	1		Contactor READY (TCS)	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_MVGAPC2_SPCSO1	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_MVGAPC2_SPCSO1	BOOL	-	1		Contactor READY TO CLOSE	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SPCGAPC2_SPCSO002_On	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SPCGAPC2_SPCSO002_On	BOOL	-	1		OPENING COMMAND - On Command	SG100D1_A3_BESS	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SPCGAPC2_SPCSO002_Off	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SPCGAPC2_SPCSO002_Off	BOOL		1		OPENING COMMAND - Off Command	SG100D1_A3_BESS	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SPCGAPC1_SPCSO001_On	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SPCGAPC1_SPCSO001_On	BOOL	-	1		CLOSING COMMAND - On Command	SG100D1_A3_BESS	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SPCGAPC1_SPCSO001_Off	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SPCGAPC1_SPCSO001_Off	BOOL		1		CLOSING COMMAND - Off Command	SG100D1_A3_BESS	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SPCGAPC1_SPCSO003_On	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SPCGAPC1_SPCSO003_On	BOOL		1		K86 RESET COMMAND - On Command	SG100D1_A3_BESS	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SPCGAPC1_SPCSO003_Off	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SPCGAPC1_SPCSO003_Off	BOOL		1		K86 RESET COMMAND - Off Command	SG100D1_A3_BESS	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SDBIGGIO1_Ind8	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SDBIGGIO1_Ind8	BOOL	-	1		PROTECTION RELAY UNIT 2 HEALTHY	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SCBIGGIO1_Ind6	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SCBIGGIO1_Ind6	BOOL	-	1		PROTECTION RELAY UNIT 4 HEALTHY	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A3_GVL.SG_100D1_A3_SDBIGGIO1_Ind9	Logic.Application	SG_100D1_A3_GVL		SG_100D1_A3_SDBIGGIO1_Ind9	BOOL	-	1		SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)	SG100D1_A3_BESS	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHHPTOC2_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHHPTOC2_Op	BOOL		1		PROTECTION TRIPPED "50"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHHPTOC1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHHPTOC1_Op	BOOL		1		PROTECTION TRIPPED "50-1"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHIPTOC1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHIPTOC1_Op	BOOL		1		PROTECTION TRIPPED "50-2"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHLPTOC2_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHLPTOC2_Op	BOOL		1		PROTECTION TRIPPED "51"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHLPTOC1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHLPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51-1"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_EFLPTOC1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_EFLPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51N"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_EFHPTOC1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_EFHPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51G"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_ROVPTOV1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_ROVPTOV1_Op	BOOL		1		PROTECTION TRIPPED "59N-1"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_ROVPTOV2_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_ROVPTOV2_Op	BOOL		1		PROTECTION TRIPPED "59N-2"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHPTUV1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHPTUV1_Op	BOOL		1		PROTECTION TRIPPED "27-1"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PHPTOV1_Op	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PHPTOV1_Op	BOOL		1		PROTECTION TRIPPED "59-1"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC1_SPCSO6	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC1_SPCSO6	BOOL		1		SELECTOR SWITCH IN LOCAL POSITION	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC1_SPCSO7	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC1_SPCSO7	BOOL		1		SELECTOR SWITCH IN REMOTE POSITION	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_CMMXU1_A_phsA	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_CMMXU1_A_phsA	FLOAT		1		Line Current (L1)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_CMMXU1_A_phsB	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_CMMXU1_A_phsB	FLOAT		1		Line Current (L2)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_CMMXU1_A_phsC	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_CMMXU1_A_phsC	FLOAT		1		Line Current (L3)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_VMMXU1_PPV_phsAB	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_VMMXU1_PPV_phsAB	FLOAT		1		VOLTAGE MAIN BUS BAR (L1-l2)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_VMMXU1_PPV_phsBC	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_VMMXU1_PPV_phsBC	FLOAT		1		VOLTAGE MAIN BUS BAR (L2-L3)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_VMMXU1_PPV_phsCA	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_VMMXU1_PPV_phsCA	FLOAT		1		VOLTAGE MAIN BUS BAR (L3-L1)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_FMMXU1_Hz	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_FMMXU1_Hz	FLOAT		1		Frequency	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PEMMXU1_TotVA	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PEMMXU1_TotVA	FLOAT		1		APPARENT POWER (kVA)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PEMMXU1_TotW	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PEMMXU1_TotW	FLOAT		1		REAL POWER (kW)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PEMMXU1_TotVAr	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PEMMXU1_TotVAr	FLOAT		1		REACTIVE POWER (kVAR)	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_PEMMXU1_TotPF	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_PEMMXU1_TotPF	FLOAT		1		POWER FACTOR	SG100D1_A4_TR_200DE1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind7	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind7	BOOL		1		TRANSFORMER PROTECTION TRIPPED "BUCHHOLZ"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind6	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind6	BOOL		1		TRANSFORMER PROTECTION ALARM "BUCHHOLZ"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind9	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind9	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind8	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind8	BOOL		1		TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind10	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind10	BOOL		1		PROTECTION TRIPPED ALARM "OIL LEVEL"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind12	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind12	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind14	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind14	BOOL		1		TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind13	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind13	BOOL		1		TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SCBIGGIO1_Ind11	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SCBIGGIO1_Ind11	BOOL		1		TRANSF. OIL LEVEL VERY LOW ALARM	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SDBIGGIO1_Ind7	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SDBIGGIO1_Ind7	BOOL		1		TRANSFORMER GENERAL ALARM	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_LPHD1_PhyHealth	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_LPHD1_PhyHealth	BOOL		1		WATCHDOG PROTECTION RELAY	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC1_SPCSO4	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC1_SPCSO4	BOOL		1		INTERTRIP SEND TO L.V. SWITCHBOARD	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SBBIGGIO1_Ind7	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SBBIGGIO1_Ind7	BOOL		1		K86 TRIPPED	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC1_SPCSO8	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC1_SPCSO8	BOOL		1		Contactor CLOSED AND INSERTED	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC2_SPCSO2	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC2_SPCSO2	BOOL		1		Contactor OPENED OR ISOLATED	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC2_SPCSO3	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC2_SPCSO3	BOOL		1		MCB'S CLOSED	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_TCSSCBR1_CircAlm	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_TCSSCBR1_CircAlm	BOOL		1		Contactor READY (TCS)	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_MVGAPC2_SPCSO1	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_MVGAPC2_SPCSO1	BOOL		1		Contactor READY TO CLOSE	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SPCGAPC2_SPCSO002_On	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SPCGAPC2_SPCSO002_On	BOOL		1		OPENING COMMAND - On Command	SG100D1_A4_TR_200DE1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SPCGAPC2_SPCSO002_Off	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SPCGAPC2_SPCSO002_Off	BOOL		1		OPENING COMMAND - Off Command	SG100D1_A4_TR_200DE1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SPCGAPC1_SPCSO001_On	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SPCGAPC1_SPCSO001_On	BOOL		1		CLOSING COMMAND - On Command	SG100D1_A4_TR_200DE1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SPCGAPC1_SPCSO001_Off	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SPCGAPC1_SPCSO001_Off	BOOL		1		CLOSING COMMAND - Off Command	SG100D1_A4_TR_200DE1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SPCGAPC1_SPCSO003_On	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SPCGAPC1_SPCSO003_On	BOOL		1		K86 RESET COMMAND - On Command	SG100D1_A4_TR_200DE1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SPCGAPC1_SPCSO003_Off	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SPCGAPC1_SPCSO003_Off	BOOL		1		K86 RESET COMMAND - Off Command	SG100D1_A4_TR_200DE1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SDBIGGIO1_Ind8	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SDBIGGIO1_Ind8	BOOL		1		PROTECTION RELAY UNIT 3 HEALTHY	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A4_GVL.SG_100D1_A4_SDBIGGIO1_Ind9	Logic.Application	SG_100D1_A4_GVL		SG_100D1_A4_SDBIGGIO1_Ind9	BOOL		1		SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)	SG100D1_A4_TR_200DE1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PHIPTOC1_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PHIPTOC1_Op	BOOL		1		PROTECTION TRIPPED "50-1"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PHLPTOC1_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PHLPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51-1"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_EFLPTOC1_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_EFLPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51N"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_LEDGGIO1_Ind3	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_LEDGGIO1_Ind3	BOOL		1		SYNCHRO "OK"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_ROVPTOV1_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_ROVPTOV1_Op	BOOL		1		PROTECTION TRIPPED "59N-1"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_ROVPTOV2_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_ROVPTOV2_Op	BOOL		1		PROTECTION TRIPPED "59N-2"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PHPTUV1_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PHPTUV1_Op	BOOL		1		PROTECTION TRIPPED "27-1"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PHPTUV2_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PHPTUV2_Op	BOOL		1		PROTECTION TRIPPED "27-2"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PHPTOV1_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PHPTOV1_Op	BOOL		1		PROTECTION TRIPPED "59-1"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PHPTOV2_Op	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PHPTOV2_Op	BOOL		1		PROTECTION TRIPPED "59-2"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_MVGAPC1_SPCSO6	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_MVGAPC1_SPCSO6	BOOL		1		SELECTOR SWITCH IN LOCAL POSITION	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_MVGAPC1_SPCSO7	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_MVGAPC1_SPCSO7	BOOL		1		SELECTOR SWITCH IN REMOTE POSITION	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_CMMXU1_A_phsA	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_CMMXU1_A_phsA	FLOAT		1		Line Current (L1)	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_CMMXU1_A_phsB	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_CMMXU1_A_phsB	FLOAT		1		Line Current (L2)	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_CMMXU1_A_phsC	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_CMMXU1_A_phsC	FLOAT		1		Line Current (L3)	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_VMMXU1_PPV_phsAB	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_VMMXU1_PPV_phsAB	FLOAT		1		Line Volts (L1-L2)	Feedback Voltage for the AVR	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_VMMXU1_PPV_phsBC	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_VMMXU1_PPV_phsBC	FLOAT		1		Line Volts (L2-L3)	Feedback Voltage for the AVR	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_VMMXU1_PPV_phsCA	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_VMMXU1_PPV_phsCA	FLOAT		1		Line Volts (L3-L1)	Feedback Voltage for the AVR	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_FMMXU1_Hz	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_FMMXU1_Hz	FLOAT		1		Frequency	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PEMMXU1_TotVA	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PEMMXU1_TotVA	FLOAT		1		APPARENT POWER (kVA)	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PEMMXU1_TotW	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PEMMXU1_TotW	FLOAT		1		REAL POWER (kW)	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PEMMXU1_TotVAr	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PEMMXU1_TotVAr	FLOAT		1		REACTIVE POWER (kVAR)	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_PEMMXU1_TotPF	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_PEMMXU1_TotPF	FLOAT		1		POWER FACTOR	SG100D1_A6_TR_100AD1	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind9	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind9	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind8	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind8	BOOL		1		TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind12	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind12	BOOL		1		TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind11	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind11	BOOL		1		TRANSF. PROT. SELF DEHYDRATING BREATHER ALARM	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind14	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind14	BOOL		1		TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind13	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind13	BOOL		1		TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SDBIGGIO1_Ind7	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SDBIGGIO1_Ind7	BOOL		1		TRANSFORMER PROTECTION ALARM BUCHHOLZ	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SDBIGGIO1_Ind9	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SDBIGGIO1_Ind9	BOOL		1		TRANSFORMER PROTECTION TRIPPED BUCHHOLZ	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SBBIGGIO1_Ind9	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SBBIGGIO1_Ind9	BOOL		1		TRANSFORMER OLTC PROTECTION RELAY	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind10	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind10	BOOL		1		TRANSFORMER PROTECTION ALARM LEVEL OIL	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind7	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind7	BOOL		1		TRANSFORMER PROTECTION TRIPPED LEVEL OIL	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SDBIGGIO1_Ind3	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SDBIGGIO1_Ind3	BOOL		1		TRANSFORMER PROTECTION ALARM OIL LEVEL INDICATOR	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind1	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind1	BOOL		1		TRANSF. OLTC PROTECTION TRIPPED OIL LEVEL INDICATOR	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind6	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind6	BOOL		1		TRANSFORMER PROTECTION ALARM MEMBRANE CONTROL	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_LPHD1_PhyHealth	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_LPHD1_PhyHealth	BOOL		1		WATCHDOG PROTECTION RELAY	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBIGGIO1_Ind2	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBIGGIO1_Ind2	BOOL		1		V.T. HEALTHY CIRCUIT	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_MVGAPC1_SPCSO4	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_MVGAPC1_SPCSO4	BOOL		1		INTERTRIP SEND TO 66kV SWITCHB.	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SBBIGGIO1_Ind7	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SBBIGGIO1_Ind7	BOOL		1		686 TRIPPED	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_MVGAPC2_SPCSO2	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_MVGAPC2_SPCSO2	BOOL		1		C.B. OPENED OR ISOLATED	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_MVGAPC2_SPCSO5	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_MVGAPC2_SPCSO5	BOOL		1		MCB'S CLOSED	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_TCSSCBR1_CircAlm	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_TCSSCBR1_CircAlm	BOOL		1		C.B. READY (TCS)	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_MVGAPC2_SPCSO1	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_MVGAPC2_SPCSO1	BOOL		1		C.B. READY TO CLOSE	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SPCGAPC2_SPCSO002_On	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SPCGAPC2_SPCSO002_On	BOOL		1		OPENING COMMAND - On Command	SG100D1_A6_TR_100AD1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SPCGAPC2_SPCSO002_Off	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SPCGAPC2_SPCSO002_Off	BOOL		1		OPENING COMMAND - Off Command	SG100D1_A6_TR_100AD1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SPCGAPC1_SPCSO001_On	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SPCGAPC1_SPCSO001_On	BOOL		1		CLOSING COMMAND - On Command	SG100D1_A6_TR_100AD1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SPCGAPC1_SPCSO001_Off	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SPCGAPC1_SPCSO001_Off	BOOL		1		CLOSING COMMAND - Off Command	SG100D1_A6_TR_100AD1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SPCGAPC1_SPCSO003_On	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SPCGAPC1_SPCSO003_On	BOOL		1		686 RESET COMMAND - On Command	SG100D1_A6_TR_100AD1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SPCGAPC1_SPCSO003_Off	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SPCGAPC1_SPCSO003_Off	BOOL		1		686 RESET COMMAND - Off Command	SG100D1_A6_TR_100AD1	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_VMMXU2_HiWrn	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_VMMXU2_HiWrn	BOOL		1		LIVE VOLTAGE 6.6kV ON THE MAIN BUS-BARS	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SCBOGGIO1_SPCSO2	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SCBOGGIO1_SPCSO2	BOOL		1		TRIPPED ARC CABLE COMPARTEMENT	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SDBIGGIO1_Ind4	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SDBIGGIO1_Ind4	BOOL		1		TR-100AD1 GENERAL ALAM	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A6_GVL.SG_100D1_A6_SDBIGGIO1_Ind8	Logic.Application	SG_100D1_A6_GVL		SG_100D1_A6_SDBIGGIO1_Ind8	BOOL		1		RR-100D1 NKR GENERAL ALARM	SG100D1_A6_TR_100AD1	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PHPTOC1_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PHPTOC1_Op	BOOL		1		PROTECTION TRIPPED "50-1"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PHLPTOC1_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PHLPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51-1"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_EFLPTOC1_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_EFLPTOC1_Op	BOOL		1		PROTECTION TRIPPED "51N"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_LEDGGIO1_Ind3	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_LEDGGIO1_Ind3	BOOL		1		SYNCHRO "SW"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_ROVPTOV1_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_ROVPTOV1_Op	BOOL		1		PROTECTION TRIPPED "59N-1"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_ROVPTOV2_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_ROVPTOV2_Op	BOOL		1		PROTECTION TRIPPED "59N-2"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PHPTUV1_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PHPTUV1_Op	BOOL		1		PROTECTION TRIPPED "27-1"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PHPTUV2_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PHPTUV2_Op	BOOL		1		PROTECTION TRIPPED "27-2"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.EMCS_StatusMachine.MODE_MAINTENANCE_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_MAINTENANCE_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PHPTOV2_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PHPTOV2_Op	BOOL		1		PROTECTION TRIPPED "59-2"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_DPHLPDOC1_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_DPHLPDOC1_Op	BOOL		1		PROTECTION TRIPPED "67-1"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_DPHLPDOC2_Op	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_DPHLPDOC2_Op	BOOL		1		PROTECTION TRIPPED "67-2"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC1_SPCSO6	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC1_SPCSO6	BOOL		1		SELECTOR SWITCH IN LOCAL POSITION	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC1_SPCSO7	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC1_SPCSO7	BOOL		1		SELECTOR SWITCH IN REMOTE POSITION	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_CMMXU1_A_phsA	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_CMMXU1_A_phsA	FLOAT		1		Line Current (L1)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_CMMXU1_A_phsB	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_CMMXU1_A_phsB	FLOAT		1		Line Current (L2)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_CMMXU1_A_phsC	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_CMMXU1_A_phsC	FLOAT		1		Line Current (L3)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_VMMXU1_PPV_phsAB	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_VMMXU1_PPV_phsAB	FLOAT		1		Line Volts (L1-L2)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_VMMXU1_PPV_phsBC	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_VMMXU1_PPV_phsBC	FLOAT		1		Line Volts (L2-L3)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_VMMXU1_PPV_phsCA	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_VMMXU1_PPV_phsCA	FLOAT		1		Line Volts (L3-L1)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_FMMXU1_Hz	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_FMMXU1_Hz	FLOAT		1		Frequency	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PEMMXU1_TotVA	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PEMMXU1_TotVA	FLOAT		1		APPARENT POWER (kVA)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PEMMXU1_TotW	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PEMMXU1_TotW	FLOAT		1		REAL POWER (kW)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PEMMXU1_TotVAr	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PEMMXU1_TotVAr	FLOAT		1		REACTIVE POWER (kVAR)	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_PEMMXU1_TotPF	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_PEMMXU1_TotPF	FLOAT		1		POWER FACTOR	SG100D1_A7_FUELL_CELL	R	IEC-61850			FLOAT
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind14	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind14	BOOL		1		TRANSF. PROTECTION TRIPPED "WINDING TEMPERATURE"	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind13	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind13	BOOL		1		TRANSF. PROTECTION ALARM "WINDING TEMPERATURE	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_LPHD1_PhyHealth	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_LPHD1_PhyHealth	BOOL		1		WATCHDOG PROTECTION RELAY	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind2	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind2	BOOL		1		V.T. HEALTHY CIRCUIT	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC1_SPCSO4	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC1_SPCSO4	BOOL		1		INTERTRIP SEND TO 66kV SWITCHBOARD	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SBBIGGIO1_Ind7	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SBBIGGIO1_Ind7	BOOL		1		686 TRIPPED	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC1_SPCSO8	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC1_SPCSO8	BOOL		1		Contactor CLOSED AND INSERTED	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC2_SPCSO2	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC2_SPCSO2	BOOL		1		Contactor OPENED OR ISOLATED	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC2_SPCSO3	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC2_SPCSO3	BOOL		1		MCB'S CLOSED	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_TCSSCBR1_CircAlm	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_TCSSCBR1_CircAlm	BOOL		1		Contactor READY (TCS)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_MVGAPC2_SPCSO1	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_MVGAPC2_SPCSO1	BOOL		1		Contactor READY TO CLOSE	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SPCGAPC1_SPCSO002_On	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SPCGAPC1_SPCSO002_On	BOOL		1		OPENING COMMAND - On Command	SG100D1_A7_FUELL_CELL	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SPCGAPC1_SPCSO002_Off	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SPCGAPC1_SPCSO002_Off	BOOL		1		OPENING COMMAND - Off Command	SG100D1_A7_FUELL_CELL	W	IEC-61850			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SPCGAPC1_SPCSO001_On	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SPCGAPC1_SPCSO001_On	BOOL		1		CLOSING COMMAND - On Command	SG100D1_A7_FUELL_CELL	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SPCGAPC1_SPCSO001_Off	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SPCGAPC1_SPCSO001_Off	BOOL		1		CLOSING COMMAND - Off Command	SG100D1_A7_FUELL_CELL	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SPCGAPC1_SPCSO003_On	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SPCGAPC1_SPCSO003_On	BOOL		1		K86 RESET COMMAND - On Command	SG100D1_A7_FUELL_CELL	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SPCGAPC1_SPCSO003_Off	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SPCGAPC1_SPCSO003_Off	BOOL		1		K86 RESET COMMAND - Off Command	SG100D1_A7_FUELL_CELL	W	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SDBIGGIO1_Ind8	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SDBIGGIO1_Ind8	BOOL		1		PROTECTION RELAY UNIT 6 HEALTHY	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SDBIGGIO1_Ind7	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SDBIGGIO1_Ind7	BOOL		1		AUXILIARY 230VAC HEALTHY (ALL SWITCHBOARD)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind6	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind6	BOOL		1		MCB'S CLOSED (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind7	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind7	BOOL		1		V.T. HEALTHY CIRCUIT (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind8	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind8	BOOL		1		UPS 110VDC A SUPPLY "ON" (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind9	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind9	BOOL		1		UPS 110VDC B SUPPLY "ON" (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind10	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind10	BOOL		1		230VAC SUPPLY "ON" (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind11	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind11	BOOL		1		24VDC SUPPLY "ON" (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_A7_GVL.SG_100D1_A7_SCBIGGIO1_Ind3	Logic.Application	SG_100D1_A7_GVL		SG_100D1_A7_SCBIGGIO1_Ind3	BOOL		1		EARTHING SWITCH OPENED (FROM MEASURE UNIT A5)	SG100D1_A7_FUELL_CELL	R	IEC-61850			BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_CC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_CC_PHL1_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Main B	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40117	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_CC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_CC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Main B	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40118	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_CC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_CC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - C.B. Co	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40119	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_CBC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_CBC_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - C.B. Co	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40120	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_CBC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_CBC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - C.B. Co	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40121	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_CBC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_CBC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Cabel Co	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40122	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_MBB_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - Cabel Co	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40123	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A1_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A1_MBB_PHL3_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Cabel Co	SG100D1_A1_ELECTROLYSER FEEDER A-20000	R	MODBUS	40124	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_CC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_CC_PHL1_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Main B	SG100D1_A2_TR_200ED1	R	MODBUS	40125	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_CC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_CC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Main B	SG100D1_A2_TR_200ED1	R	MODBUS	40126	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_CC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_CC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - C.B. Co	SG100D1_A2_TR_200ED1	R	MODBUS	40127	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_CBC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_CBC_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - C.B. Co	SG100D1_A2_TR_200ED1	R	MODBUS	40128	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_CBC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_CBC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - C.B. Co	SG100D1_A2_TR_200ED1	R	MODBUS	40129	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_CBC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_CBC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Cabel Co	SG100D1_A2_TR_200ED1	R	MODBUS	40130	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_MBB_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - Cabel Co	SG100D1_A2_TR_200ED1	R	MODBUS	40131	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A2_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A2_MBB_PHL3_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Cabel Co	SG100D1_A2_TR_200ED1	R	MODBUS	40132	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_CC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_CC_PHL1_TEMP_DETECT	INT	-	1		Phase L1 - Temperature Detection - Main B	SG100D1_A3_BESS	R	MODBUS	40133	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_CC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_CC_PHL2_TEMP_DETECT	INT	-	1		Phase L3 - Temperature Detection - Main B	SG100D1_A3_BESS	R	MODBUS	40134	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_CC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_CC_PHL3_TEMP_DETECT	INT	-	1		Phase L1 - Temperature Detection - C.B. Co	SG100D1_A3_BESS	R	MODBUS	40135	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_CBC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_CBC_PHL1_TEMP_DETECT	INT	-	1		Phase L2 - Temperature Detection - C.B. Co	SG100D1_A3_BESS	R	MODBUS	40136	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_CBC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_CBC_PHL2_TEMP_DETECT	INT	-	1		Phase L3 - Temperature Detection - C.B. Co	SG100D1_A3_BESS	R	MODBUS	40137	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_CBC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_CBC_PHL3_TEMP_DETECT	INT	-	1		Phase L1 - Temperature Detection - Cabel Co	SG100D1_A3_BESS	R	MODBUS	40138	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_MBB_PHL1_TEMP_DETECT	INT	-	1		Phase L2 - Temperature Detection - Cabel Co	SG100D1_A3_BESS	R	MODBUS	40139	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A3_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A3_MBB_PHL3_TEMP_DETECT	INT	-	1		Phase L3 - Temperature Detection - Cabel Co	SG100D1_A3_BESS	R	MODBUS	40140	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_CC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_CC_PHL1_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Main B	SG100D1_A4_TR_200DE1	R	MODBUS	40141	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_CC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_CC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Main B	SG100D1_A4_TR_200DE1	R	MODBUS	40142	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_CC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_CC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - C.B. Co	SG100D1_A4_TR_200DE1	R	MODBUS	40143	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_CBC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_CBC_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - C.B. Co	SG100D1_A4_TR_200DE1	R	MODBUS	40144	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_CBC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_CBC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - C.B. Co	SG100D1_A4_TR_200DE1	R	MODBUS	40145	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_CBC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_CBC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Cabel Co	SG100D1_A4_TR_200DE1	R	MODBUS	40146	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_MBB_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - Cabel Co	SG100D1_A4_TR_200DE1	R	MODBUS	40147	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A4_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A4_MBB_PHL3_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Cabel Co	SG100D1_A4_TR_200DE1	R	MODBUS	40148	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_TVC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_TVC_PHL1_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Main B	SG100D1_A5_MEASURING BUS BAR	R	MODBUS	40109	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_TVC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_TVC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Main B	SG100D1_A5_MEASURING BUS BAR	R	MODBUS	40110	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_TVC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_TVC_PHL3_TEMP_DETECT	INT		1		Phase L1 -Temperature Detection - T.V. Comp	SG100D1_A5_MEASURING BUS BAR	R	MODBUS	40111	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_MBB_PHL1_TEMP_DETECT	INT		1		Phase L2 -Temperature Detection - T.V. Comp	SG100D1_A5_MEASURING BUS BAR	R	MODBUS	40112	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_MBB_PHL3_TEMP_DETECT	INT		1		Phase L3 -Temperature Detection - T.V. Comp	SG100D1_A5_MEASURING BUS BAR	R	MODBUS	40113	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_CC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_CC_PHL1_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Main B	SG100D1_A6_TR_100AD1	R	MODBUS	40149	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_CC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_CC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Main B	SG100D1_A6_TR_100AD1	R	MODBUS	40150	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_CC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_CC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - C.B. Co	SG100D1_A6_TR_100AD1	R	MODBUS	40151	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_CBC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_CBC_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - C.B. Co	SG100D1_A6_TR_100AD1	R	MODBUS	40152	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_CBC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_CBC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - C.B. Co	SG100D1_A6_TR_100AD1	R	MODBUS	40153	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_CBC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_CBC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Cabel Co	SG100D1_A6_TR_100AD1	R	MODBUS	40154	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_MBB_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - Cabel Co	SG100D1_A6_TR_100AD1	R	MODBUS	40155	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A6_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A6_MBB_PHL3_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Cabel Co	SG100D1_A6_TR_100AD1	R	MODBUS	40156	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_CC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_CC_PHL1_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Main B	SG100D1_A7_FUELL_CELL	R	MODBUS	40157	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_CC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_CC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Main B	SG100D1_A7_FUELL_CELL	R	MODBUS	40158	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_CC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_CC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - C.B. Co	SG100D1_A7_FUELL_CELL	R	MODBUS	40159	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_CBC_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_CBC_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - C.B. Co	SG100D1_A7_FUELL_CELL	R	MODBUS	40160	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_CBC_PHL2_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_CBC_PHL2_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - C.B. Co	SG100D1_A7_FUELL_CELL	R	MODBUS	40161	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_CBC_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_CBC_PHL3_TEMP_DETECT	INT		1		Phase L1 - Temperature Detection - Cabel Co	SG100D1_A7_FUELL_CELL	R	MODBUS	40162	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_MBB_PHL1_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_MBB_PHL1_TEMP_DETECT	INT		1		Phase L2 - Temperature Detection - Cabel Co	SG100D1_A7_FUELL_CELL	R	MODBUS	40163	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A7_MBB_PHL3_TEMP_DETECT	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A7_MBB_PHL3_TEMP_DETECT	INT		1		Phase L3 - Temperature Detection - Cabel Co	SG100D1_A7_FUELL_CELL	R	MODBUS	40164	HOLDING REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHA_PD_PRESENCE_LIKELIHOOD	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHA_PD_PRESENCE_LIKELIHOOD	INT				PDCOM measurements calculated: PD presence li	MEASURING BUS BAR	R	MODBUS	1088	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHA_PD_DISCHARGE_STRENGTH	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHA_PD_DISCHARGE_STRENGTH					PDCOM measurements calculated: Discharge strength	MEASURING BUS BAR	R	MODBUS	1089	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHA_PD_PULSE_RATE	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHA_PD_PULSE_RATE					PDCOM measurements calculated: Pulse rate (Q50 p	MEASURING BUS BAR	R	MODBUS	1090	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHA_PD_DISCHARGE_VARIABILITY	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHA_PD_DISCHARGE_VARIABILITY					PDCOM measurements calculated: Discharge va	MEASURING BUS BAR	R	MODBUS	1091	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHA_PD_DISCHARGE_INCREASE	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHA_PD_DISCHARGE_INCREASE					PDCOM measurements calculated: Discharge in	MEASURING BUS BAR	R	MODBUS	1092	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHB_PD_PRESENCE_LIKELIHOOD	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHB_PD_PRESENCE_LIKELIHOOD					PDCOM measurements calculated: PD presence li	MEASURING BUS BAR	R	MODBUS	1093	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHB_PD_DISCHARGE_STRENGTH	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHB_PD_DISCHARGE_STRENGTH					PDCOM measurements calculated: Discharge strength	MEASURING BUS BAR	R	MODBUS	1094	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHB_PD_PULSE_RATE	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHB_PD_PULSE_RATE					PDCOM measurements calculated: Pulse rate (Q50 p	MEASURING BUS BAR	R	MODBUS	1095	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHB_PD_DISCHARGE_VARIABILITY	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHB_PD_DISCHARGE_VARIABILITY					PDCOM measurements calculated: Discharge va	MEASURING BUS BAR	R	MODBUS	1096	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHB_PD_DISCHARGE_INCREASE	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHB_PD_DISCHARGE_INCREASE					PDCOM measurements calculated: Discharge in	MEASURING BUS BAR	R	MODBUS	1097	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHC_PD_PRESENCE_LIKELIHOOD	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHC_PD_PRESENCE_LIKELIHOOD					PDCOM measurements calculated: PD presence li	MEASURING BUS BAR	R	MODBUS	1098	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHC_PD_DISCHARGE_STRENGTH	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHC_PD_DISCHARGE_STRENGTH					PDCOM measurements calculated: Discharge strength	MEASURING BUS BAR	R	MODBUS	1099	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHC_PD_PULSE_RATE	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHC_PD_PULSE_RATE					PDCOM measurements calculated: Pulse rate (Q50 p	MEASURING BUS BAR	R	MODBUS	1100	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHC_PD_DISCHARGE_VARIABILITY	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHC_PD_DISCHARGE_VARIABILITY					PDCOM measurements calculated: Discharge va	MEASURING BUS BAR	R	MODBUS	1101	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_A5_PHC_PD_DISCHARGE_INCREASE	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_A5_PHC_PD_DISCHARGE_INCREASE					PDCOM measurements calculated: Discharge in	MEASURING BUS BAR	R	MODBUS	1102	INPUT REGISTER	INT
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_1_1W_FREE_TIME_WARNING	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_1_1W_FREE_TIME_WARNING					PD Warning-free time (1 week) is under warn	MEASURING BUS BAR	R	MODBUS	1958.00	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_1_1W_FREE_TIME_ALARM	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_1_1W_FREE_TIME_ALARM					PD Alarm-free time (1 week) is under alarm	MEASURING BUS BAR	R	MODBUS	1958.01	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_1_1M_FREE_TIME_WARNING	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_1_1M_FREE_TIME_WARNING					PD Warning-free time (1 month) is under warn	MEASURING BUS BAR	R	MODBUS	1958.02	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_1_1M_FREE_TIME_ALARM	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_1_1M_FREE_TIME_ALARM					PD Alarm-free time (1 month) is under alar	MEASURING BUS BAR	R	MODBUS	1958.03	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_2_1W_FREE_TIME_WARNING	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_2_1W_FREE_TIME_WARNING					PD Warning-free time (1 week) is under warn	MEASURING BUS BAR	R	MODBUS	1958.04	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_2_1W_FREE_TIME_ALARM	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_2_1W_FREE_TIME_ALARM					PD Alarm-free time (1 week) is under alarm	MEASURING BUS BAR	R	MODBUS	1958.05	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_2_1M_FREE_TIME_WARNING	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_2_1M_FREE_TIME_WARNING					PD Warning-free time (1 month) is under warn	MEASURING BUS BAR	R	MODBUS	1958.06	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_2_1M_FREE_TIME_ALARM	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_2_1M_FREE_TIME_ALARM					PD Alarm-free time (1 month) is under alar	MEASURING BUS BAR	R	MODBUS	1958.07	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_3_1W_FREE_TIME_WARNING	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_3_1W_FREE_TIME_WARNING					PD Warning-free time (1 week) is under warn	MEASURING BUS BAR	R	MODBUS	1958.08	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_3_1W_FREE_TIME_ALARM	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_3_1W_FREE_TIME_ALARM					PD Alarm-free time (1 week) is under alarm	MEASURING BUS BAR	R	MODBUS	1958.09	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_3_1M_FREE_TIME_WARNING	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_3_1M_FREE_TIME_WARNING					PD Warning-free time (1 month) is under warn	MEASURING BUS BAR	R	MODBUS	1958.10	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_3_1M_FREE_TIME_ALARM	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_3_1M_FREE_TIME_ALARM					PD Alarm-free time (1 month) is under alar	MEASURING BUS BAR	R	MODBUS	1958.11	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_1_WARNING_LEVEL_REACHED	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_1_WARNING_LEVEL_REACHED					PD has reached warning level, val	MEASURING BUS BAR	R	MODBUS	1953.14	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_1_ALARM_LEVEL_REACHED	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_1_ALARM_LEVEL_REACHED					PD has reached alarm level, valu	MEASURING BUS BAR	R	MODBUS	1953.15	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_2_WARNING_LEVEL_REACHED	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_2_WARNING_LEVEL_REACHED					PD has reached warning level, val	MEASURING BUS BAR	R	MODBUS	1954.00	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_2_ALARM_LEVEL_REACHED	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_2_ALARM_LEVEL_REACHED					PD has reached alarm level, valu	MEASURING BUS BAR	R	MODBUS	1954.01	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_3_WARNING_LEVEL_REACHED	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_3_WARNING_LEVEL_REACHED					PD has reached warning level, val	MEASURING BUS BAR	R	MODBUS	1954.02	INPUT REGISTER	BOOL
Logic.Application.SG_100D1_MDB_GVL.SG_100D1_OUT_ANTENNA_3_ALARM_LEVEL_REACHED	Logic.Application	SG_100D1_MDB_GVL		SG_100D1_OUT_ANTENNA_3_ALARM_LEVEL_REACHED					PD has reached alarm level, valu	MEASURING BUS BAR	R	MODBUS	1954.03	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_PROTECTION_TRIPPED_L	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_PROTECTION_TRIPPED_L	BOOL		1		CIRCUIT_BRAKER_PROTECTION_TRIPPED_L	DI	R	MODBUS	50.0	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_PROTECTION_TRIPPED_S	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_PROTECTION_TRIPPED_S	BOOL		1		CIRCUIT_BRAKER_PROTECTION_TRIPPED_S	DI	R	MODBUS	50.1	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_PROTECTION_TRIPPED_I	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_PROTECTION_TRIPPED_I	BOOL		1		CIRCUIT_BRAKER_PROTECTION_TRIPPED_I	DI	R	MODBUS	50.2	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_PROTECTION_TRIPPED_G_	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_PROTECTION_TRIPPED_G	BOOL		1		CIRCUIT_BRAKER_PROTECTION_TRIPPED_G	DI	R	MODBUS	50.3	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_TRIPPED_COMMON	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_TRIPPED_COMMON	BOOL		1		CIRCUIT_BRAKER_TRIPPED_COMMON	DI	R	MODBUS	40.3	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_OPEN	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_OPEN	BOOL		1		CIRCUIT_BRAKER_OPEN	DI	R	MODBUS	40.6	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_CLOSED	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_CLOSED	BOOL		1		CIRCUIT_BRAKER_CLOSED	DI	R	MODBUS	40.0	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_CONNECTED	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_CONNECTED	BOOL		1		CIRCUIT_BRAKER_CONNECTED	DI	R	MODBUS	40.1	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_ISOLATED	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_ISOLATED	BOOL		1		CIRCUIT_BRAKER_ISOLATED	DI	R	MODBUS	40.1	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_TEST	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_TEST	BOOL		1		CIRCUIT_BRAKER_TEST	DI	R	MODBUS	40.2	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.CIRCUIT_BRAKER_TRIP_UNIT_DISCONNECTED	Logic.Application	SG_200D2_GVL		CIRCUIT_BRAKER_TRIP_UNIT_DISCONNECTED	BOOL		1		CIRCUIT_BRAKER_TRIP_UNIT_DISCONNECTED	DI	R	MODBUS	40.15	INPUT REGISTER	BOOL
Logic.Application.SG_200D2_GVL.INCOMING_QB1_CIRCUIT_BRAKER_COMMAND_OPEN	Logic.Application	SG_200D2_GVL		INCOMING_QB1_CIRCUIT_BRAKER_COMMAND_OPEN	BOOL		1		INCOMING_QB1_CIRCUIT_BRAKER_COMMAND_OPEN	DO	W	MODBUS	0.8	HOLDING REGISTER	E32
Logic.Application.SG_200D2_GVL.INCOMING_QB1_CIRCUIT_BRAKER_COMMAND_CLOSE	Logic.Application	SG_200D2_GVL		INCOMING_QB1_CIRCUIT_BRAKER_COMMAND_CLOSE	BOOL		1		INCOMING_QB1_CIRCUIT_BRAKER_COMMAND_CLOSE	DO	W	MODBUS	0.7	HOLDING REGISTER	E32

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.SG_200D2_GVL.MEASURE_CURRENT_L1	Logic.Application	SG_200D2_GVL		MEASURE_CURRENT_L1	FLOAT		1		MEASURE_CURRENT_L1	AI	R	MODBUS	100-101	INPUT REGISTER	U32
Logic.Application.SG_200D2_GVL.MEASURE_CURRENT_L2	Logic.Application	SG_200D2_GVL		MEASURE_CURRENT_L2	FLOAT		1		MEASURE_CURRENT_L2	AI	R	MODBUS	102-103	INPUT REGISTER	U32
Logic.Application.SG_200D2_GVL.MEASURE_CURRENT_L3	Logic.Application	SG_200D2_GVL		MEASURE_CURRENT_L3	FLOAT		1		MEASURE_CURRENT_L3	AI	R	MODBUS	104-105	INPUT REGISTER	U32
Logic.Application.SG_200D2_GVL.MEASURE_VOLTAGE_L1_L2	Logic.Application	SG_200D2_GVL		MEASURE_VOLTAGE_L1_L2	FLOAT		1		MEASURE_VOLTAGE_L1_L2	AI	R	MODBUS	154	INPUT REGISTER	U16
Logic.Application.SG_200D2_GVL.MEASURE_VOLTAGE_L2_L3	Logic.Application	SG_200D2_GVL		MEASURE_VOLTAGE_L2_L3	FLOAT		1		MEASURE_VOLTAGE_L2_L3	AI	R	MODBUS	155	INPUT REGISTER	U16
Logic.Application.SG_200D2_GVL.MEASURE_VOLTAGE_L3_L1	Logic.Application	SG_200D2_GVL		MEASURE_VOLTAGE_L3_L1	FLOAT		1		MEASURE_VOLTAGE_L3_L1	AI	R	MODBUS	156	INPUT REGISTER	U16
Logic.Application.SG_200D2_GVL.MEASURE_FREQUENCY	Logic.Application	SG_200D2_GVL		MEASURE_FREQUENCY	FLOAT		1		MEASURE_FREQUENCY	AI	R	MODBUS	254	INPUT REGISTER	U16
Logic.Application.SG_200D2_GVL.MEASURE_APPARENT_POWER	Logic.Application	SG_200D2_GVL		MEASURE_APPARENT_POWER	FLOAT		1		MEASURE_APPARENT_POWER	AI	R	MODBUS	222-223	INPUT REGISTER	S32
Logic.Application.SG_200D2_GVL.MEASURE_REAL_POWER	Logic.Application	SG_200D2_GVL		MEASURE_REAL_POWER	FLOAT		1		MEASURE_REAL_POWER	AI	R	MODBUS	206-207	INPUT REGISTER	S32
Logic.Application.SG_200D2_GVL.MEASURE_REACTIVE_POWER	Logic.Application	SG_200D2_GVL		MEASURE_REACTIVE_POWER	FLOAT		1		MEASURE_REACTIVE_POWER	AI	R	MODBUS	214-215	INPUT REGISTER	S32
Logic.Application.SG_200D2_GVL.MEASURE_POWER_FACTOR	Logic.Application	SG_200D2_GVL		MEASURE_POWER_FACTOR	FLOAT		1		MEASURE_POWER_FACTOR	AI	R	MODBUS	253	INPUT REGISTER	S16
Logic.Application.SG_200D2_GVL.QB1_DISCONNECTED_OR_OPEN	Logic.Application	SG_200D2_GVL		QB1_DISCONNECTED_OR_OPEN	BOOL		1		QB1_DISCONNECTED_OR_OPEN	DI	R	MODBUS	1	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.QB1_CONNECTED_AND_CLOSED	Logic.Application	SG_200D2_GVL		QB1_CONNECTED_AND_CLOSED	BOOL		1		QB1_CONNECTED_AND_CLOSED	DI	R	MODBUS	2	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.QB2_DISCONNECTED_OR_OPEN	Logic.Application	SG_200D2_GVL		QB2_DISCONNECTED_OR_OPEN	BOOL		1		QB2_DISCONNECTED_OR_OPEN	DI	R	MODBUS	3	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.QB2_CONNECTED_AND_CLOSED	Logic.Application	SG_200D2_GVL		QB2_CONNECTED_AND_CLOSED	BOOL		1		QB2_CONNECTED_AND_CLOSED	DI	R	MODBUS	4	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.SA1_ON_LOCAL_POSITION	Logic.Application	SG_200D2_GVL		SA1_ON_LOCAL_POSITION	BOOL		1		SA1_ON_LOCAL_POSITION	DI	R	MODBUS	5	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.SA1_ON_REMOTE_POSITION	Logic.Application	SG_200D2_GVL		SA1_ON_REMOTE_POSITION	BOOL		1		SA1_ON_REMOTE_POSITION	DI	R	MODBUS	6	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.MCBs_ALARM	Logic.Application	SG_200D2_GVL		MCBs_ALARM	BOOL		1		MCBs_ALARM	DI	R	MODBUS	7	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.COMMON_FAILURE	Logic.Application	SG_200D2_GVL		COMMON_FAILURE	BOOL		1		COMMON_FAILURE	DI	R	MODBUS	8	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.SURGE_ARRESTER_FAULT	Logic.Application	SG_200D2_GVL		SURGE_ARRESTER_FAULT	BOOL		1		SURGE_ARRESTER_FAULT	DI	R	MODBUS	9	DISCRETE INPUTS	BOOL
Logic.Application.SG_200D2_GVL.SG_200N1_MCBs_FAILURE	Logic.Application	SG_200D2_GVL		SG_200N1_MCBs_FAILURE	BOOL		1			DI	R	MODBUS	10	DISCRETE INPUTS	BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_DPHLPTOC2_Op	Logic.Application	SG_200N1_GVL		SG_200N1_DPHLPTOC2_Op	BOOL		1		7BBRSD "50"...	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_DPHLPTOC1_Op	Logic.Application	SG_200N1_GVL		SG_200N1_DPHLPTOC1_Op	BOOL		1		7BBRSD "51"	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_XAGGIO130_Ind004	Logic.Application	SG_200N1_GVL		SG_200N1_XAGGIO130_Ind004	BOOL		1		7BBRSD "74TCS"	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_XGGIO120_Ind001	Logic.Application	SG_200N1_GVL		SG_200N1_XGGIO120_Ind001	BOOL		1		7BBRSD "86"	DI	R	IEC-61850			BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.SG_200N1_GVL.SG_200N1_MVGAPC2_SPCSO001	Logic.Application	SG_200N1_GVL		SG_200N1_MVGAPC2_SPCSO001	BOOL		1		CIRCUIT-BRAKER - READY TO CLOSE	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_MVGAPC2_SPCSO002	Logic.Application	SG_200N1_GVL		SG_200N1_MVGAPC2_SPCSO002	BOOL		1		POSITION	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_MVGAPC1_SPCSO008	Logic.Application	SG_200N1_GVL		SG_200N1_MVGAPC1_SPCSO008	BOOL		1		INSERTED	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_LPHD1_PhyHealth	Logic.Application	SG_200N1_GVL		SG_200N1_LPHD1_PhyHealth	BOOL		1		CIRCUIT-BRAKER - WATCHDOG	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_XAGGIO130_Ind001	Logic.Application	SG_200N1_GVL		SG_200N1_XAGGIO130_Ind001	BOOL		1		MCB+ ALARM	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_MVGAPC1_SPCSO006	Logic.Application	SG_200N1_GVL		SG_200N1_MVGAPC1_SPCSO006	BOOL		1		SAS ON "LOCAL" POSITION	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_MVGAPC1_SPCSO007	Logic.Application	SG_200N1_GVL		SG_200N1_MVGAPC1_SPCSO007	BOOL		1		SAS ON "REMOTE" POSITION	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_XAGGIO130_Ind002	Logic.Application	SG_200N1_GVL		SG_200N1_XAGGIO130_Ind002	BOOL		1		SA2 ON "MAINTENANCE" POSITION	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_MVGAPC1_SPCSO004	Logic.Application	SG_200N1_GVL		SG_200N1_MVGAPC1_SPCSO004	BOOL		1		INTERFIP TO MV (BKR)	DI	R	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_SPCGAPC2_SPCSO001_On	Logic.Application	SG_200N1_GVL		SG_200N1_SPCGAPC2_SPCSO001_On	BOOL		1		CIRCUIT-BRAKER - CLOSE COMMAND - On Command	DO	W	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_SPCGAPC2_SPCSO001_Off	Logic.Application	SG_200N1_GVL		SG_200N1_SPCGAPC2_SPCSO001_Off	BOOL		1		CIRCUIT-BRAKER – CLOSE COMMAND - Off Command	DO	W	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_SPCGAPC1_SPCSO002_On	Logic.Application	SG_200N1_GVL		SG_200N1_SPCGAPC1_SPCSO002_On	BOOL		1		CIRCUIT-BRAKER - OPEN COMMAND - On Command	DO	W	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_SPCGAPC1_SPCSO002_Off	Logic.Application	SG_200N1_GVL		SG_200N1_SPCGAPC1_SPCSO002_Off	BOOL		1		CIRCUIT-BRAKER - OPEN COMMAND - Off Command	DO	W	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_SPCGAPC1_SPCSO003_On	Logic.Application	SG_200N1_GVL		SG_200N1_SPCGAPC1_SPCSO003_On	BOOL		1		K86 RESET COMMAND - On Command	DO	W	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_SPCGAPC1_SPCSO003_Off	Logic.Application	SG_200N1_GVL		SG_200N1_SPCGAPC1_SPCSO003_Off	BOOL		1		K86 RESET COMMAND - Off Command	DO	W	IEC-61850			BOOL
Logic.Application.SG_200N1_GVL.SG_200N1_CMMXU1_A_phsA	Logic.Application	SG_200N1_GVL		SG_200N1_CMMXU1_A_phsA	FLOAT	A	1		MEASURE - CURRENT "L1"	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_CMMXU1_A_phsB	Logic.Application	SG_200N1_GVL		SG_200N1_CMMXU1_A_phsB	FLOAT	A	1		MEASURE - CURRENT "L2"	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_CMMXU1_A_phsC	Logic.Application	SG_200N1_GVL		SG_200N1_CMMXU1_A_phsC	FLOAT	A	1		MEASURE - CURRENT "L3"	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_VMMXU1_PPV_phsAB	Logic.Application	SG_200N1_GVL		SG_200N1_VMMXU1_PPV_phsAB	FLOAT	V	1		MEASURE - VOLTAGE "L1-L2"	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_VMMXU1_PPV_phsBC	Logic.Application	SG_200N1_GVL		SG_200N1_VMMXU1_PPV_phsBC	FLOAT	V	1		MEASURE - VOLTAGE "L2-L3"	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_VMMXU1_PPV_phsCA	Logic.Application	SG_200N1_GVL		SG_200N1_VMMXU1_PPV_phsCA	FLOAT	V	1		MEASURE - VOLTAGE "L3-L1"	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_FMMXU1_Hz	Logic.Application	SG_200N1_GVL		SG_200N1_FMMXU1_Hz	FLOAT	Hz	1		MEASURE - FREQUENCY	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_PEMMXU1_TotVA	Logic.Application	SG_200N1_GVL		SG_200N1_PEMMXU1_TotVA	FLOAT	kVA	1		MEASURE - APPARENT POWER	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_PEMMXU1_TotW	Logic.Application	SG_200N1_GVL		SG_200N1_PEMMXU1_TotW	FLOAT	kW	1		MEASURE - REAL POWER	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_PEMMXU1_TotVAr	Logic.Application	SG_200N1_GVL		SG_200N1_PEMMXU1_TotVAr	FLOAT	kVAR	1		MEASURE - REACTIVE POWER	AI	R	IEC-61850			FLOAT
Logic.Application.SG_200N1_GVL.SG_200N1_PEMMXU1_TotPF	Logic.Application	SG_200N1_GVL		SG_200N1_PEMMXU1_TotPF	FLOAT	COSfi	1		MEASURE - POWER FACTOR	AI	R	IEC-61850			FLOAT
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Available_capacity	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Available_capacity	UINT16	kW	1		InverterSystem_Available_capacity		W	MODBUS	30001	INPUT REGISTER	UINT16
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Current_curtailment_setpoint	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Current_curtailment_setpoint	UINT16	kW	1	0 : 500	InverterSystem_Current_curtailment_setpoint		W	MODBUS	30003	INPUT REGISTER	UINT16
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Current_total_power	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Current_total_power	UINT16	kW	1		InverterSystem_Current_total_power		W	MODBUS	30005	INPUT REGISTER	UINT16
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Status	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Status	BOOL		1		InverterSystem_Status		R	MODBUS	30007	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Fault	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Fault	BOOL		1		InverterSystem_Fault		R	MODBUS	30008	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Maintenance	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Maintenance	BOOL		1		InverterSystem_Maintenance		R	MODBUS	30009	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Curtailment_setpoint_CMD	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Curtailment_setpoint_CMD	UINT16	kW	1		InverterSystem_Curtailment_setpoint_CMD		W	MODBUS	40001	HOLDING REGISTER	UINT16
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Startup_CMD	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Startup_CMD	BOOL		1		InverterSystem_Startup_CMD		W	MODBUS	40003	HOLDING REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.InverterSystem_Shutdown_CMD	Logic.Application	SOLAR_FARM_GVL		InverterSystem_Shutdown_CMD	BOOL		1		InverterSystem_Shutdown_CMD		W	MODBUS	40004	HOLDING REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.Main_CB_OpenStatus	Logic.Application	SOLAR_FARM_GVL		Main_CB_OpenStatus	BOOL		1		Main_CB_OpenStatus		R	MODBUS	30101	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.Main_CB_ClosedStatus	Logic.Application	SOLAR_FARM_GVL		Main_CB_ClosedStatus	BOOL		1		Main_CB_ClosedStatus		R	MODBUS	30102	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.Main_CB_RemoteControlAvailable	Logic.Application	SOLAR_FARM_GVL		Main_CB_RemoteControlAvailable	BOOL		1		Main_CB_RemoteControlAvailable		R	MODBUS	30103	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.Main_CB_OpenRequest_CMD	Logic.Application	SOLAR_FARM_GVL		Main_CB_OpenRequest_CMD	BOOL		1		Main_CB_OpenRequest_CMD		R	MODBUS	40101	HOLDING REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.Main_CB_ClosedRequest_CMD	Logic.Application	SOLAR_FARM_GVL		Main_CB_ClosedRequest_CMD	BOOL		1		Main_CB_ClosedRequest_CMD		R	MODBUS	40102	HOLDING REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.EQMeter_A_B_line_voltage	Logic.Application	SOLAR_FARM_GVL		EQMeter_A_B_line_voltage	FLOAT	V	1		EQMeter_A_B_line_voltage		R	MODBUS	30201	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.EQMeter_B_C_line_voltage	Logic.Application	SOLAR_FARM_GVL		EQMeter_B_C_line_voltage	FLOAT	V	1		EQMeter_B_C_line_voltage		W	MODBUS	30203	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.EQMeter_C_A_line_voltage	Logic.Application	SOLAR_FARM_GVL		EQMeter_C_A_line_voltage	FLOAT	V	1		EQMeter_C_A_line_voltage		W	MODBUS	30205	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.EQMeter_Phase_A_current	Logic.Application	SOLAR_FARM_GVL		EQMeter_Phase_A_current	FLOAT	A	1		EQMeter_Phase_A_current		R	MODBUS	30207	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.EQMeter_Phase_B_current	Logic.Application	SOLAR_FARM_GVL		EQMeter_Phase_B_current	FLOAT	A	1		EQMeter_Phase_B_current		R	MODBUS	30209	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.EQMeter_Phase_C_current	Logic.Application	SOLAR_FARM_GVL		EQMeter_Phase_C_current	FLOAT	A	1		EQMeter_Phase_C_current		R	MODBUS	30211	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.EQMeter_Total_active_power	Logic.Application	SOLAR_FARM_GVL		EQMeter_Total_active_power	FLOAT	kW	1		EQMeter_Total_active_power		R	MODBUS	30213	INPUT REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_A_B_line_voltage_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_A_B_line_voltage_CMD	FLOAT	V	1		External_EQMeter_A_B_line_voltage_CMD		W	MODBUS	40301	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_B_C_line_voltage_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_B_C_line_voltage_CMD	FLOAT	V	1		External_EQMeter_B_C_line_voltage_CMD		W	MODBUS	40303	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_C_A_line_voltage_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_C_A_line_voltage_CMD	FLOAT	V	1		External_EQMeter_C_A_line_voltage_CMD		W	MODBUS	40305	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_Phase_A_current_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_Phase_A_current_CMD	FLOAT	A	1		External_EQMeter_Phase_A_current_CMD		W	MODBUS	40307	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_Phase_B_current_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_Phase_B_current_CMD	FLOAT	A	1		External_EQMeter_Phase_B_current_CMD		W	MODBUS	40309	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_Phase_C_current_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_Phase_C_current_CMD	FLOAT	A	1		External_EQMeter_Phase_C_current_CMD		W	MODBUS	40311	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_EQMeter_Total_active_power_CMD	Logic.Application	SOLAR_FARM_GVL		External_EQMeter_Total_active_power_CMD	FLOAT	kW	1		External_EQMeter_Total_active_power_CMD		W	MODBUS	40313	HOLDING REGISTER	FLOAT
Logic.Application.SOLAR_FARM_GVL.External_CB_OpenStatus_CMD	Logic.Application	SOLAR_FARM_GVL		External_CB_OpenStatus_CMD	BOOL		1		External_CB_OpenStatus_CMD		W	MODBUS	30401	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.External_CB_ClosedStatus_CMD	Logic.Application	SOLAR_FARM_GVL		External_CB_ClosedStatus_CMD	BOOL		1		External_CB_ClosedStatus_CMD		W	MODBUS	30402	INPUT REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.External_CB_OpenRequest	Logic.Application	SOLAR_FARM_GVL		External_CB_OpenRequest	BOOL		1		External_CB_OpenRequest		R	MODBUS	40401	HOLDING REGISTER	BIT
Logic.Application.SOLAR_FARM_GVL.External_CB_ClosedRequest	Logic.Application	SOLAR_FARM_GVL		External_CB_ClosedRequest	BOOL		1		External_CB_ClosedRequest		R	MODBUS	40402	HOLDING REGISTER	BIT
Logic.Application.TransformerAVR_GVL.Change_Tap_Position_Raise_On_CMD	Logic.Application	TransformerAVR_GVL		Change_Tap_Position_Raise_On_CMD	BOOL		1		Change_Tap_Position_Raise_On_CMD		W	MODBUS	0	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Change_Tap_Position_Raise_Off_CMD	Logic.Application	TransformerAVR_GVL		Change_Tap_Position_Raise_Off_CMD			1		Change_Tap_Position_Raise_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Change_Tap_Position_Lower_On_CMD	Logic.Application	TransformerAVR_GVL		Change_Tap_Position_Lower_On_CMD	BOOL		1		Change_Tap_Position_Lower_On_CMD		W	MODBUS	1	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Change_Tap_Position_Lower_Off_CMD	Logic.Application	TransformerAVR_GVL		Change_Tap_Position_Lower_Off_CMD			1		Change_Tap_Position_Lower_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Change_Voltage_Raise_On_CMD	Logic.Application	TransformerAVR_GVL		Change_Voltage_Raise_On_CMD	BOOL		1		Change_Voltage_Raise_On_CMD		W	MODBUS	2	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Change_Voltage_Raise_Off_CMD	Logic.Application	TransformerAVR_GVL		Change_Voltage_Raise_Off_CMD			1		Change_Voltage_Raise_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Change_Voltage_Lower_On_CMD	Logic.Application	TransformerAVR_GVL		Change_Voltage_Lower_On_CMD	BOOL		1		Change_Voltage_Lower_On_CMD		W	MODBUS	3	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Change_Voltage_Lower_Off_CMD	Logic.Application	TransformerAVR_GVL		Change_Voltage_Lower_Off_CMD			1		Change_Voltage_Lower_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Automatic_Manual_operation_On_CMD	Logic.Application	TransformerAVR_GVL		Automatic_Manual_operation_On_CMD	BOOL		1		Automatic_Manual_operation_On_CMD		W	MODBUS	4	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Automatic_Manual_operation_Off_CMD	Logic.Application	TransformerAVR_GVL		Automatic_Manual_operation_Off_CMD			1		Automatic_Manual_operation_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_1_active_On_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_1_active_On_CMD	BOOL		1		Band_center_voltage_1_active_On_CMD		W	MODBUS	5	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_1_active_Off_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_1_active_Off_CMD			1		Band_center_voltage_1_active_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_2_active_On_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_2_active_On_CMD	BOOL		1		Band_center_voltage_2_active_On_CMD		W	MODBUS	6	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_2_active_Off_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_2_active_Off_CMD			1		Band_center_voltage_2_active_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_3_active_On_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_3_active_On_CMD	BOOL		1		Band_center_voltage_3_active_On_CMD		W	MODBUS	7	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_3_active_Off_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_3_active_Off_CMD			1		Band_center_voltage_3_active_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Parallel_Independent_On_CMD	Logic.Application	TransformerAVR_GVL		Parallel_Independent_On_CMD	BOOL		1		Parallel_Independent_On_CMD		W	MODBUS	10	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Parallel_Independent_Off_CMD	Logic.Application	TransformerAVR_GVL		Parallel_Independent_Off_CMD			1		Parallel_Independent_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Master_mode_selection_activationparallel_control_On_CMD	Logic.Application	TransformerAVR_GVL		Master_mode_selection_activationparallel_control_On_CMD	BOOL		1		Master_mode_selection_activationparallel_control_On_CMD		W	MODBUS	11	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Master_mode_selection_activationparallel_control_Off_CMD	Logic.Application	TransformerAVR_GVL		Master_mode_selection_activationparallel_control_Off_CMD			1		Master_mode_selection_activationparallel_control_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Follower_mode_selection_activationparallel_control_On_CMD	Logic.Application	TransformerAVR_GVL		Follower_mode_selection_activationparallel_control_On_CMD	BOOL		1		Follower_mode_selection_activationparallel_control_On_CMD		W	MODBUS	12	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Follower_mode_selection_activationparallel_control_Off_CMD	Logic.Application	TransformerAVR_GVL		Follower_mode_selection_activationparallel_control_Off_CMD			1		Follower_mode_selection_activationparallel_control_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Circulating_current_selection_activation_parallel_control_On_CMD	Logic.Application	TransformerAVR_GVL		Circulating_current_selection_activation_parallel_control_On_CMD	BOOL		1		Circulating_current_selection_activation_parallel_control_On_CMD		W	MODBUS	13	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Circulating_current_selection_activation_parallel_control_Off_CMD	Logic.Application	TransformerAVR_GVL		Circulating_current_selection_activation_parallel_control_Off_CMD			1		Circulating_current_selection_activation_parallel_control_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Line_Drop_Compensation_On_CMD	Logic.Application	TransformerAVR_GVL		Line_Drop_Compensation_On_CMD	BOOL		1		Line_Drop_Compensation_On_CMD		W	MODBUS	14	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Line_Drop_Compensation_Off_CMD	Logic.Application	TransformerAVR_GVL		Line_Drop_Compensation_Off_CMD			1		Line_Drop_Compensation_Off_CMD		W	MODBUS	Internal logic		BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.TransformerAVR_GVL.Time_delay_linear_or_integral_characteristic_for_regulation_of_voltage_On_CMD	Logic.Application	TransformerAVR_GVL		Time_delay_linear_or_integral_characteristic_for_regulation_of_voltage_On_CMD	BOOL		1		Time_delay_linear_or_integral_characteristic_for_regulation_of_voltage_On_CMD		W	MODBUS	15	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Time_delay_linear_or_integral_characteristic_for_regulation_of_voltage_Off_CMD	Logic.Application	TransformerAVR_GVL		Time_delay_linear_or_integral_characteristic_for_regulation_of_voltage_Off_CMD			1		Time_delay_linear_or_integral_characteristic_for_regulation_of_voltage_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.TAPCON_dynamic_set_point_control_On_CMD	Logic.Application	TransformerAVR_GVL		TAPCON_dynamic_set_point_control_On_CMD	BOOL		1		TAPCON_dynamic_set_point_control_On_CMD		W	MODBUS	16	COILS	BOOL
Logic.Application.TransformerAVR_GVL.TAPCON_dynamic_set_point_control_Off_CMD	Logic.Application	TransformerAVR_GVL		TAPCON_dynamic_set_point_control_Off_CMD			1		TAPCON_dynamic_set_point_control_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_1_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_1_On_CMD	BOOL		1		General_Purpose_Command_1_On_CMD		W	MODBUS	113	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_1_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_1_Off_CMD			1		General_Purpose_Command_1_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_2_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_2_On_CMD	BOOL		1		General_Purpose_Command_2_On_CMD		W	MODBUS	114	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_2_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_2_Off_CMD			1		General_Purpose_Command_2_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_3_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_3_On_CMD	BOOL		1		General_Purpose_Command_3_On_CMD		W	MODBUS	115	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_3_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_3_Off_CMD			1		General_Purpose_Command_3_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_4_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_4_On_CMD	BOOL		1		General_Purpose_Command_4_On_CMD		W	MODBUS	116	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_4_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_4_Off_CMD			1		General_Purpose_Command_4_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_5_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_5_On_CMD	BOOL		1		General_Purpose_Command_5_On_CMD		W	MODBUS	117	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_5_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_5_Off_CMD			1		General_Purpose_Command_5_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_6_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_6_On_CMD	BOOL		1		General_Purpose_Command_6_On_CMD		W	MODBUS	118	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_6_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_6_Off_CMD			1		General_Purpose_Command_6_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_7_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_7_On_CMD	BOOL		1		General_Purpose_Command_7_On_CMD		W	MODBUS	119	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_7_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_7_Off_CMD			1		General_Purpose_Command_7_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_8_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_8_On_CMD	BOOL		1		General_Purpose_Command_8_On_CMD		W	MODBUS	120	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_8_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_8_Off_CMD			1		General_Purpose_Command_8_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_9_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_9_On_CMD	BOOL		1		General_Purpose_Command_9_On_CMD		W	MODBUS	121	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_9_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_9_Off_CMD			1		General_Purpose_Command_9_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_10_On_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_10_On_CMD	BOOL		1		General_Purpose_Command_10_On_CMD		W	MODBUS	122	COILS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_10_Off_CMD	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_10_Off_CMD			1		General_Purpose_Command_10_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Desired_power_factor_selection_activation_parallel_control_On_CMD	Logic.Application	TransformerAVR_GVL		Desired_power_factor_selection_activation_parallel_control_On_CMD	BOOL		1		Desired_power_factor_selection_activation_parallel_control_On_CMD		W	MODBUS	363	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Desired_power_factor_selection_activation_parallel_control_Off_CMD	Logic.Application	TransformerAVR_GVL		Desired_power_factor_selection_activation_parallel_control_Off_CMD			1		Desired_power_factor_selection_activation_parallel_control_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Desired_load_type_selection_On_CMD	Logic.Application	TransformerAVR_GVL		Desired_load_type_selection_On_CMD	BOOL		1		Desired_load_type_selection_On_CMD		W	MODBUS	364	COILS	BOOL
Logic.Application.TransformerAVR_GVL.Desired_load_type_selection_Off_CMD	Logic.Application	TransformerAVR_GVL		Desired_load_type_selection_Off_CMD			1		Desired_load_type_selection_Off_CMD		W	MODBUS	Internal logic		BOOL
Logic.Application.TransformerAVR_GVL.Automatic_Manual_operation	Logic.Application	TransformerAVR_GVL		Automatic_Manual_operation	BOOL		1		Automatic_Manual_operation		R	MODBUS	4	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_desired_value_1_active	Logic.Application	TransformerAVR_GVL		Band_center_voltage_desired_value_1_active	BOOL		1		Band_center_voltage_desired_value_1_active		R	MODBUS	5	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_desired_value_2_active	Logic.Application	TransformerAVR_GVL		Band_center_voltage_desired_value_2_active	BOOL		1		Band_center_voltage_desired_value_2_active		R	MODBUS	6	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Band_center_voltage_desired_value_3_active	Logic.Application	TransformerAVR_GVL		Band_center_voltage_desired_value_3_active	BOOL		1		Band_center_voltage_desired_value_3_active		R	MODBUS	7	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Parallel_Independent	Logic.Application	TransformerAVR_GVL		Parallel_Independent	BOOL		1		Parallel_Independent		R	MODBUS	10	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Master_mode_selection_activationparallel_control	Logic.Application	TransformerAVR_GVL		Master_mode_selection_activationparallel_control	BOOL		1		Master_mode_selection_activationparallel_control		R	MODBUS	11	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Follower_mode_selection_activationparallel_control	Logic.Application	TransformerAVR_GVL		Follower_mode_selection_activationparallel_control	BOOL		1		Follower_mode_selection_activationparallel_control		R	MODBUS	12	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Circulating_current_selection_activation_parallel_control	Logic.Application	TransformerAVR_GVL		Circulating_current_selection_activation_parallel_control	BOOL		1		Circulating_current_selection_activation_parallel_control		R	MODBUS	13	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Line_Drop_Compensation	Logic.Application	TransformerAVR_GVL		Line_Drop_Compensation	BOOL		1		Line_Drop_Compensation		R	MODBUS	14	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Time_delay_linear_or_integral_characteristic	Logic.Application	TransformerAVR_GVL		Time_delay_linear_or_integral_characteristic	BOOL		1		Time_delay_linear_or_integral_characteristic		R	MODBUS	15	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.TAPCON_dynamic_set_point_control	Logic.Application	TransformerAVR_GVL		TAPCON_dynamic_set_point_control	BOOL		1		TAPCON_dynamic_set_point_control		R	MODBUS	16	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Error_of_parallel_operation	Logic.Application	TransformerAVR_GVL		Error_of_parallel_operation	BOOL		1		Error_of_parallel_operation		R	MODBUS	25	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Tap_indication_error_eg_wrong_BCD_code	Logic.Application	TransformerAVR_GVL		Tap_indication_error_eg_wrong_BCD_code	BOOL		1		Tap_indication_error_eg_wrong_BCD_code		R	MODBUS	26	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Local_operation	Logic.Application	TransformerAVR_GVL		Local_operation	BOOL		1		Local_operation		R	MODBUS	27	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Health_AVR	Logic.Application	TransformerAVR_GVL		Health_AVR	BOOL		1		Health_AVR		R	MODBUS	28	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Function_monitoring	Logic.Application	TransformerAVR_GVL		Function_monitoring	BOOL		1		Function_monitoring		R	MODBUS	29	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Motor_drive_running	Logic.Application	TransformerAVR_GVL		Motor_drive_running	BOOL		1		Motor_drive_running		R	MODBUS	30	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.LTC_inhibit_due_to_under_voltage	Logic.Application	TransformerAVR_GVL		LTC_inhibit_due_to_under_voltage	BOOL		1		LTC_inhibit_due_to_under_voltage		R	MODBUS	31	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.LTC_inhibit_due_to_over_voltage	Logic.Application	TransformerAVR_GVL		LTC_inhibit_due_to_over_voltage	BOOL		1		LTC_inhibit_due_to_over_voltage		R	MODBUS	32	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.LTC_inhibit_due_to_over_current	Logic.Application	TransformerAVR_GVL		LTC_inhibit_due_to_over_current	BOOL		1		LTC_inhibit_due_to_over_current		R	MODBUS	33	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.End_position_raise_or_highest_allowed_tap_position_reached	Logic.Application	TransformerAVR_GVL		End_position_raise_or_highest_allowed_tap_position_reached	BOOL		1		End_position_raise_or_highest_allowed_tap_position_reached		R	MODBUS	34	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.End_position_lower_or_lowest_allowed_tap_position_reached	Logic.Application	TransformerAVR_GVL		End_position_lower_or_lowest_allowed_tap_position_reached	BOOL		1		End_position_lower_or_lowest_allowed_tap_position_reached		R	MODBUS	35	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Block_Automatic_Control	Logic.Application	TransformerAVR_GVL		Block_Automatic_Control	BOOL		1		Block_Automatic_Control		R	MODBUS	36	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Voltage_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		Voltage_high_limit_exceeded	BOOL		1		Voltage_high_limit_exceeded		R	MODBUS	37	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Voltage_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Voltage_high_limit_2_exceeded	BOOL		1		Voltage_high_limit_2_exceeded		R	MODBUS	38	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Voltage_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		Voltage_low_limit_exceeded	BOOL		1		Voltage_low_limit_exceeded		R	MODBUS	39	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Voltage_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Voltage_low_limit_2_exceeded	BOOL		1		Voltage_low_limit_2_exceeded		R	MODBUS	40	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Current_overload	Logic.Application	TransformerAVR_GVL		Current_overload	BOOL		1		Current_overload		R	MODBUS	41	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Current_overload_2	Logic.Application	TransformerAVR_GVL		Current_overload_2	BOOL		1		Current_overload_2		R	MODBUS	42	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Current_underload	Logic.Application	TransformerAVR_GVL		Current_underload	BOOL		1		Current_underload		R	MODBUS	43	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Current_underload_2	Logic.Application	TransformerAVR_GVL		Current_underload_2	BOOL		1		Current_underload_2		R	MODBUS	44	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Apparent_power_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		Apparent_power_high_limit_exceeded	BOOL		1		Apparent_power_high_limit_exceeded		R	MODBUS	45	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Apparent_power_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Apparent_power_high_limit_2_exceeded	BOOL		1		Apparent_power_high_limit_2_exceeded		R	MODBUS	46	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Apparent_power_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		Apparent_power_low_limit_exceeded	BOOL		1		Apparent_power_low_limit_exceeded		R	MODBUS	47	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Apparent_power_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Apparent_power_low_limit_2_exceeded	BOOL		1		Apparent_power_low_limit_2_exceeded		R	MODBUS	48	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Active_power_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		Active_power_high_limit_exceeded	BOOL		1		Active_power_high_limit_exceeded		R	MODBUS	49	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Active_power_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Active_power_high_limit_2_exceeded	BOOL		1		Active_power_high_limit_2_exceeded		R	MODBUS	50	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Active_power_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		Active_power_low_limit_exceeded	BOOL		1		Active_power_low_limit_exceeded		R	MODBUS	51	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Active_power_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Active_power_low_limit_2_exceeded	BOOL		1		Active_power_low_limit_2_exceeded		R	MODBUS	52	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Reactive_power_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		Reactive_power_high_limit_exceeded	BOOL		1		Reactive_power_high_limit_exceeded		R	MODBUS	53	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Reactive_power_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Reactive_power_high_limit_2_exceeded	BOOL		1		Reactive_power_high_limit_2_exceeded		R	MODBUS	54	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Reactive_power_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		Reactive_power_low_limit_exceeded	BOOL		1		Reactive_power_low_limit_exceeded		R	MODBUS	55	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Reactive_power_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Reactive_power_low_limit_2_exceeded	BOOL		1		Reactive_power_low_limit_2_exceeded		R	MODBUS	56	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Power_Factor_Cosinus_phi_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		Power_Factor_Cosinus_phi_low_limit_exceeded	BOOL		1		Power_Factor_Cosinus_phi_low_limit_exceeded		R	MODBUS	57	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Power_Factor_Cosinus_phi_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		Power_Factor_Cosinus_phi_low_limit_2_exceeded	BOOL		1		Power_Factor_Cosinus_phi_low_limit_2_exceeded		R	MODBUS	58	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Voltage_input_failure_eg_missing_connection	Logic.Application	TransformerAVR_GVL		Voltage_input_failure_eg_missing_connection	BOOL		1		Voltage_input_failure_eg_missing_connection		R	MODBUS	59	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.TAPCON_dynamic_set_point_control_failure_TDSC	Logic.Application	TransformerAVR_GVL		TAPCON_dynamic_set_point_control_failure_TDSC	BOOL		1		TAPCON_dynamic_set_point_control_failure_TDSC		R	MODBUS	112	DISCRETE INPUTS	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_1_GPC1	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_1_GPC1	BOOL		1		General_Purpose_Command_1_GPC1		R	MODBUS	113	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_2_GPC2	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_2_GPC2	BOOL		1		General_Purpose_Command_2_GPC2		R	MODBUS	114	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_3_GPC3	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_3_GPC3	BOOL		1		General_Purpose_Command_3_GPC3		R	MODBUS	115	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_4_GPC4	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_4_GPC4	BOOL		1		General_Purpose_Command_4_GPC4		R	MODBUS	116	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_5_GPC5	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_5_GPC5	BOOL		1		General_Purpose_Command_5_GPC5		R	MODBUS	117	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_6_GPC6	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_6_GPC6	BOOL		1		General_Purpose_Command_6_GPC6		R	MODBUS	118	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_7_GPC7	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_7_GPC7	BOOL		1		General_Purpose_Command_7_GPC7		R	MODBUS	119	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_8_GPC8	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_8_GPC8	BOOL		1		General_Purpose_Command_8_GPC8		R	MODBUS	120	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_9_GPC9	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_9_GPC9	BOOL		1		General_Purpose_Command_9_GPC9		R	MODBUS	121	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Command_10_GPC10	Logic.Application	TransformerAVR_GVL		General_Purpose_Command_10_GPC10	BOOL		1		General_Purpose_Command_10_GPC10		R	MODBUS	122	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_1_GPM1	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_1_GPM1	BOOL		1		General_Purpose_Message_1_GPM1		R	MODBUS	123	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_2_GPM2	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_2_GPM2	BOOL		1		General_Purpose_Message_2_GPM2		R	MODBUS	124	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_3_GPM3	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_3_GPM3	BOOL		1		General_Purpose_Message_3_GPM3		R	MODBUS	125	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_4_GPM4	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_4_GPM4	BOOL		1		General_Purpose_Message_4_GPM4		R	MODBUS	126	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_5_GPM5	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_5_GPM5	BOOL		1		General_Purpose_Message_5_GPM5		R	MODBUS	127	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_6_GPM6	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_6_GPM6	BOOL		1		General_Purpose_Message_6_GPM6		R	MODBUS	128	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_7_GPM7	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_7_GPM7	BOOL		1		General_Purpose_Message_7_GPM7		R	MODBUS	129	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_8_GPM8	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_8_GPM8	BOOL		1		General_Purpose_Message_8_GPM8		R	MODBUS	130	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_9_GPM9	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_9_GPM9	BOOL		1		General_Purpose_Message_9_GPM9		R	MODBUS	131	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_Purpose_Message_10_GPM10	Logic.Application	TransformerAVR_GVL		General_Purpose_Message_10_GPM10	BOOL		1		General_Purpose_Message_10_GPM10		R	MODBUS	132	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Desired_power_factor_selection_activation_parallel_control	Logic.Application	TransformerAVR_GVL		Desired_power_factor_selection_activation_parallel_control	BOOL		1		Desired_power_factor_selection_activation_parallel_control		R	MODBUS	363	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Desired_load_type_selection	Logic.Application	TransformerAVR_GVL		Desired_load_type_selection	BOOL		1		Desired_load_type_selection		R	MODBUS	364	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Motor_protective_switch_triggered	Logic.Application	TransformerAVR_GVL		Motor_protective_switch_triggered	BOOL		1		Motor_protective_switch_triggered		R	MODBUS	570	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Event_category_Information_active	Logic.Application	TransformerAVR_GVL		Event_category_Information_active	BOOL		1		Event_category_Information_active		R	MODBUS	572	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Event_category_Warning_active	Logic.Application	TransformerAVR_GVL		Event_category_Warning_active	BOOL		1		Event_category_Warning_active		R	MODBUS	573	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Event_category_Error_active	Logic.Application	TransformerAVR_GVL		Event_category_Error_active	BOOL		1		Event_category_Error_active		R	MODBUS	574	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_1_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_1_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_1_low_limit_2_exceeded		R	MODBUS	695	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_1_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_1_low_limit_exceeded	BOOL		1		General_purpose_analog_input_1_low_limit_exceeded		R	MODBUS	696	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_1_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_1_high_limit_exceeded	BOOL		1		General_purpose_analog_input_1_high_limit_exceeded		R	MODBUS	697	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_1_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_1_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_1_high_limit_2_exceeded		R	MODBUS	698	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_2_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_2_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_2_low_limit_2_exceeded		R	MODBUS	699	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_2_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_2_low_limit_exceeded	BOOL		1		General_purpose_analog_input_2_low_limit_exceeded		R	MODBUS	700	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_2_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_2_high_limit_exceeded	BOOL		1		General_purpose_analog_input_2_high_limit_exceeded		R	MODBUS	701	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_2_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_2_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_2_high_limit_2_exceeded		R	MODBUS	702	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_3_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_3_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_3_low_limit_2_exceeded		R	MODBUS	703	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_3_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_3_low_limit_exceeded	BOOL		1		General_purpose_analog_input_3_low_limit_exceeded		R	MODBUS	704	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_3_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_3_high_limit_exceeded	BOOL		1		General_purpose_analog_input_3_high_limit_exceeded		R	MODBUS	705	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_3_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_3_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_3_high_limit_2_exceeded		R	MODBUS	706	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_4_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_4_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_4_low_limit_2_exceeded		R	MODBUS	707	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_4_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_4_low_limit_exceeded	BOOL		1		General_purpose_analog_input_4_low_limit_exceeded		R	MODBUS	708	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_4_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_4_high_limit_exceeded	BOOL		1		General_purpose_analog_input_4_high_limit_exceeded		R	MODBUS	709	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_4_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_4_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_4_high_limit_2_exceeded		R	MODBUS	710	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_5_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_5_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_5_low_limit_2_exceeded		R	MODBUS	711	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_5_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_5_low_limit_exceeded	BOOL		1		General_purpose_analog_input_5_low_limit_exceeded		R	MODBUS	712	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_5_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_5_high_limit_exceeded	BOOL		1		General_purpose_analog_input_5_high_limit_exceeded		R	MODBUS	713	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_5_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_5_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_5_high_limit_2_exceeded		R	MODBUS	714	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_6_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_6_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_6_low_limit_2_exceeded		R	MODBUS	715	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_6_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_6_low_limit_exceeded	BOOL		1		General_purpose_analog_input_6_low_limit_exceeded		R	MODBUS	716	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_6_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_6_high_limit_exceeded	BOOL		1		General_purpose_analog_input_6_high_limit_exceeded		R	MODBUS	717	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_6_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_6_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_6_high_limit_2_exceeded		R	MODBUS	718	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_7_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_7_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_7_low_limit_2_exceeded		R	MODBUS	719	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_7_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_7_low_limit_exceeded	BOOL		1		General_purpose_analog_input_7_low_limit_exceeded		R	MODBUS	720	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_7_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_7_high_limit_exceeded	BOOL		1		General_purpose_analog_input_7_high_limit_exceeded		R	MODBUS	721	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_7_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_7_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_7_high_limit_2_exceeded		R	MODBUS	722	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_8_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_8_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_8_low_limit_2_exceeded		R	MODBUS	723	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_8_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_8_low_limit_exceeded	BOOL		1		General_purpose_analog_input_8_low_limit_exceeded		R	MODBUS	724	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_8_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_8_high_limit_exceeded	BOOL		1		General_purpose_analog_input_8_high_limit_exceeded		R	MODBUS	725	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_8_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_8_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_8_high_limit_2_exceeded		R	MODBUS	726	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_9_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_9_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_9_low_limit_2_exceeded		R	MODBUS	727	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_9_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_9_low_limit_exceeded	BOOL		1		General_purpose_analog_input_9_low_limit_exceeded		R	MODBUS	728	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_9_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_9_high_limit_exceeded	BOOL		1		General_purpose_analog_input_9_high_limit_exceeded		R	MODBUS	729	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_9_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_9_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_9_high_limit_2_exceeded		R	MODBUS	730	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_10_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_10_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_10_low_limit_2_exceeded		R	MODBUS	731	DISCRETE INPUTS	BOOL

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_10_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_10_low_limit_exceeded	BOOL		1		General_purpose_analog_input_10_low_limit_exceeded		R	MODBUS	732	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_10_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_10_high_limit_exceeded	BOOL		1		General_purpose_analog_input_10_high_limit_exceeded		R	MODBUS	733	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_10_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_10_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_10_high_limit_2_exceeded		R	MODBUS	734	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_11_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_11_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_11_low_limit_2_exceeded		R	MODBUS	735	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_11_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_11_low_limit_exceeded	BOOL		1		General_purpose_analog_input_11_low_limit_exceeded		R	MODBUS	736	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_11_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_11_high_limit_exceeded	BOOL		1		General_purpose_analog_input_11_high_limit_exceeded		R	MODBUS	737	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_11_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_11_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_11_high_limit_2_exceeded		R	MODBUS	738	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_12_low_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_12_low_limit_2_exceeded	BOOL		1		General_purpose_analog_input_12_low_limit_2_exceeded		R	MODBUS	739	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_12_low_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_12_low_limit_exceeded	BOOL		1		General_purpose_analog_input_12_low_limit_exceeded		R	MODBUS	740	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_12_high_limit_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_12_high_limit_exceeded	BOOL		1		General_purpose_analog_input_12_high_limit_exceeded		R	MODBUS	741	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_12_high_limit_2_exceeded	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_12_high_limit_2_exceeded	BOOL		1		General_purpose_analog_input_12_high_limit_2_exceeded		R	MODBUS	742	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.OLTC_position_even	Logic.Application	TransformerAVR_GVL		OLTC_position_even	BOOL		1		OLTC_position_even		R	MODBUS	834	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.OLTC_position_odd	Logic.Application	TransformerAVR_GVL		OLTC_position_odd	BOOL		1		OLTC_position_odd		R	MODBUS	835	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Tap_change_operation_incomplete	Logic.Application	TransformerAVR_GVL		Tap_change_operation_incomplete	BOOL		1		Tap_change_operation_incomplete		R	MODBUS	836	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Switching_delay_only_TC230_AVT	Logic.Application	TransformerAVR_GVL		Switching_delay_only_TC230_AVT	BOOL		1		Switching_delay_only_TC230_AVT		R	MODBUS	854	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_1_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_1_DI_16_110V_1	BOOL		1		DIO_Input_X1_1_DI_16_110V_1		R	MODBUS	2002	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_2_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_2_DI_16_110V_1	BOOL		1		DIO_Input_X1_2_DI_16_110V_1		R	MODBUS	2003	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_3_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_3_DI_16_110V_1	BOOL		1		DIO_Input_X1_3_DI_16_110V_1		R	MODBUS	2004	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_4_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_4_DI_16_110V_1	BOOL		1		DIO_Input_X1_4_DI_16_110V_1		R	MODBUS	2005	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_5_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_5_DI_16_110V_1	BOOL		1		DIO_Input_X1_5_DI_16_110V_1		R	MODBUS	2006	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_6_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_6_DI_16_110V_1	BOOL		1		DIO_Input_X1_6_DI_16_110V_1		R	MODBUS	2007	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_7_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_7_DI_16_110V_1	BOOL		1		DIO_Input_X1_7_DI_16_110V_1		R	MODBUS	2008	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X1_8_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X1_8_DI_16_110V_1	BOOL		1		DIO_Input_X1_8_DI_16_110V_1		R	MODBUS	2009	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_1_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_1_DI_16_110V_1	BOOL		1		DIO_Input_X2_1_DI_16_110V_1		R	MODBUS	2010	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_2_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_2_DI_16_110V_1	BOOL		1		DIO_Input_X2_2_DI_16_110V_1		R	MODBUS	2011	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_3_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_3_DI_16_110V_1	BOOL		1		DIO_Input_X2_3_DI_16_110V_1		R	MODBUS	2012	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_4_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_4_DI_16_110V_1	BOOL		1		DIO_Input_X2_4_DI_16_110V_1		R	MODBUS	2013	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_5_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_5_DI_16_110V_1	BOOL		1		DIO_Input_X2_5_DI_16_110V_1		R	MODBUS	2014	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_6_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_6_DI_16_110V_1	BOOL		1		DIO_Input_X2_6_DI_16_110V_1		R	MODBUS	2015	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_7_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_7_DI_16_110V_1	BOOL		1		DIO_Input_X2_7_DI_16_110V_1		R	MODBUS	2016	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.DIO_Input_X2_8_DI_16_110V_1	Logic.Application	TransformerAVR_GVL		DIO_Input_X2_8_DI_16_110V_1	BOOL		1		DIO_Input_X2_8_DI_16_110V_1		R	MODBUS	2017	DISCRETE INPUTS	BOOL
Logic.Application.TransformerAVR_GVL.Band_width_voltage	Logic.Application	TransformerAVR_GVL		Band_width_voltage	FLOAT		1		Band_width_voltage		R	MODBUS	0	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_intentional_time_delay_for_regulation_of_voltage	Logic.Application	TransformerAVR_GVL		Control_intentional_time_delay_for_regulation_of_voltage	FLOAT		1		Control_intentional_time_delay_for_regulation_of_voltage		R	MODBUS	1	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Line_drop_voltage_due_to_line_resistance_component	Logic.Application	TransformerAVR_GVL		Line_drop_voltage_due_to_line_resistance_component	FLOAT		1		Line_drop_voltage_due_to_line_resistance_component		R	MODBUS	2	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Line_drop_voltage_due_to_line_reactance_component	Logic.Application	TransformerAVR_GVL		Line_drop_voltage_due_to_line_reactance_component	FLOAT		1		Line_drop_voltage_due_to_line_reactance_component		R	MODBUS	3	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_voltage_below_which_auto_Lower_commands_blocked	Logic.Application	TransformerAVR_GVL		Control_voltage_below_which_auto_Lower_commands_blocked	FLOAT		1		Control_voltage_below_which_auto_Lower_commands_blocked		R	MODBUS	4	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Limit_Load_Current	Logic.Application	TransformerAVR_GVL		Limit_Load_Current	FLOAT		1		Limit_Load_Current		R	MODBUS	5	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Line_drop_voltage_due_to_line_total_impedance	Logic.Application	TransformerAVR_GVL		Line_drop_voltage_due_to_line_total_impedance	FLOAT		1		Line_drop_voltage_due_to_line_total_impedance		R	MODBUS	6	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Tap_position_of_Load_Tap_Changer_where_automatic_Raise_commands_are_blocked	Logic.Application	TransformerAVR_GVL		Tap_position_of_Load_Tap_Changer_where_automatic_Raise_commands_are_blocked	FLOAT		1		Tap_position_of_Load_Tap_Changer_where_automatic_Raise_commands_are_blocked		R	MODBUS	7	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Tap_position_of_Load_Tap_Changer_where_automatic_Lower_commands_are_blocked	Logic.Application	TransformerAVR_GVL		Tap_position_of_Load_Tap_Changer_where_automatic_Lower_commands_are_blocked	FLOAT		1		Tap_position_of_Load_Tap_Changer_where_automatic_Lower_commands_are_blocked		R	MODBUS	8	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_1_1	Logic.Application	TransformerAVR_GVL		Band_center_voltage_1_1	FLOAT		1		Band_center_voltage_1_1		R	MODBUS	9	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_2_1	Logic.Application	TransformerAVR_GVL		Band_center_voltage_2_1	FLOAT		1		Band_center_voltage_2_1		R	MODBUS	10	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_3_1	Logic.Application	TransformerAVR_GVL		Band_center_voltage_3_1	FLOAT		1		Band_center_voltage_3_1		R	MODBUS	11	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minumum_voltage_value_for_dynamic_setpoint_control_1	Logic.Application	TransformerAVR_GVL		Minumum_voltage_value_for_dynamic_setpoint_control_1	FLOAT		1		Minumum_voltage_value_for_dynamic_setpoint_control_1		R	MODBUS	14	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_voltage_value_for_dynamic_setpoint_control_1	Logic.Application	TransformerAVR_GVL		Maximum_voltage_value_for_dynamic_setpoint_control_1	FLOAT		1		Maximum_voltage_value_for_dynamic_setpoint_control_1		R	MODBUS	15	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_1	Logic.Application	TransformerAVR_GVL		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_1	FLOAT		1		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_1		R	MODBUS	16	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minumum_active_power_value_for_dynamic_setpoint_control_1	Logic.Application	TransformerAVR_GVL		Minumum_active_power_value_for_dynamic_setpoint_control_1	FLOAT		1		Minumum_active_power_value_for_dynamic_setpoint_control_1		R	MODBUS	17	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_active_power_value_for_dynamic_setpoint_control_1	Logic.Application	TransformerAVR_GVL		Maximum_active_power_value_for_dynamic_setpoint_control_1	FLOAT		1		Maximum_active_power_value_for_dynamic_setpoint_control_1		R	MODBUS	18	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_4	Logic.Application	TransformerAVR_GVL		Band_center_voltage_4	FLOAT		1		Band_center_voltage_4		R	MODBUS	25	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_Voltage_1	Logic.Application	TransformerAVR_GVL		Control_Voltage_1	FLOAT		1		Control_Voltage_1		R	MODBUS	26	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_Voltage_Deviation	Logic.Application	TransformerAVR_GVL		Control_Voltage_Deviation	FLOAT		1		Control_Voltage_Deviation		R	MODBUS	27	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Load_Current	Logic.Application	TransformerAVR_GVL		Load_Current	FLOAT		1		Load_Current		R	MODBUS	28	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_Angle_of_LodA_relative_to_CtlV	Logic.Application	TransformerAVR_GVL		Phase_Angle_of_LodA_relative_to_CtlV	FLOAT		1		Phase_Angle_of_LodA_relative_to_CtlV		R	MODBUS	29	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Circulating_Current_reactive	Logic.Application	TransformerAVR_GVL		Circulating_Current_reactive	FLOAT		1		Circulating_Current_reactive		R	MODBUS	30	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Total_active_power_total_P_1	Logic.Application	TransformerAVR_GVL		Total_active_power_total_P_1	FLOAT		1		Total_active_power_total_P_1		R	MODBUS	31	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Total_reactive_power_total_Q_1	Logic.Application	TransformerAVR_GVL		Total_reactive_power_total_Q_1	FLOAT		1		Total_reactive_power_total_Q_1		R	MODBUS	32	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Total_apparent_power_total_S_1	Logic.Application	TransformerAVR_GVL		Total_apparent_power_total_S_1	FLOAT		1		Total_apparent_power_total_S_1		R	MODBUS	33	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Average_power_factor_total_PF	Logic.Application	TransformerAVR_GVL		Average_power_factor_total_PF	FLOAT		1		Average_power_factor_total_PF		R	MODBUS	34	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Frequency	Logic.Application	TransformerAVR_GVL		Frequency	FLOAT		1		Frequency		R	MODBUS	35	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_phase_voltage_L1L2_1	Logic.Application	TransformerAVR_GVL		Phase_to_phase_voltage_L1L2_1	FLOAT		1		Phase_to_phase_voltage_L1L2_1		R	MODBUS	36	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_phase_voltage_L2L3_1	Logic.Application	TransformerAVR_GVL		Phase_to_phase_voltage_L2L3_1	FLOAT		1		Phase_to_phase_voltage_L2L3_1		R	MODBUS	37	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_phase_voltage_L3L1_1	Logic.Application	TransformerAVR_GVL		Phase_to_phase_voltage_L3L1_1	FLOAT		1		Phase_to_phase_voltage_L3L1_1		R	MODBUS	38	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_neutral_voltage_L1_1	Logic.Application	TransformerAVR_GVL		Phase_to_neutral_voltage_L1_1	FLOAT		1		Phase_to_neutral_voltage_L1_1		R	MODBUS	39	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_neutral_voltage_L2_1	Logic.Application	TransformerAVR_GVL		Phase_to_neutral_voltage_L2_1	FLOAT		1		Phase_to_neutral_voltage_L2_1		R	MODBUS	40	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_neutral_voltage_L3_1	Logic.Application	TransformerAVR_GVL		Phase_to_neutral_voltage_L3_1	FLOAT		1		Phase_to_neutral_voltage_L3_1		R	MODBUS	41	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_current_L1	Logic.Application	TransformerAVR_GVL		Phase_current_L1	FLOAT		1		Phase_current_L1		R	MODBUS	42	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_current_L2	Logic.Application	TransformerAVR_GVL		Phase_current_L2	FLOAT		1		Phase_current_L2		R	MODBUS	43	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_current_L3	Logic.Application	TransformerAVR_GVL		Phase_current_L3	FLOAT		1		Phase_current_L3		R	MODBUS	44	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_current_N	Logic.Application	TransformerAVR_GVL		Phase_current_N	FLOAT		1		Phase_current_N		R	MODBUS	45	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_active_power_P_L1_1	Logic.Application	TransformerAVR_GVL		Phase_active_power_P_L1_1	FLOAT		1		Phase_active_power_P_L1_1		R	MODBUS	46	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_active_power_P_L2_1	Logic.Application	TransformerAVR_GVL		Phase_active_power_P_L2_1	FLOAT		1		Phase_active_power_P_L2_1		R	MODBUS	47	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_active_power_P_L3_1	Logic.Application	TransformerAVR_GVL		Phase_active_power_P_L3_1	FLOAT		1		Phase_active_power_P_L3_1		R	MODBUS	48	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_reactive_power_Q_L1_1	Logic.Application	TransformerAVR_GVL		Phase_reactive_power_Q_L1_1	FLOAT		1		Phase_reactive_power_Q_L1_1		R	MODBUS	49	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_reactive_power_Q_L2_1	Logic.Application	TransformerAVR_GVL		Phase_reactive_power_Q_L2_1	FLOAT		1		Phase_reactive_power_Q_L2_1		R	MODBUS	50	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_reactive_power_Q_L3_1	Logic.Application	TransformerAVR_GVL		Phase_reactive_power_Q_L3_1	FLOAT		1		Phase_reactive_power_Q_L3_1		R	MODBUS	51	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_apparent_power_S_L1_1	Logic.Application	TransformerAVR_GVL		Phase_apparent_power_S_L1_1	FLOAT		1		Phase_apparent_power_S_L1_1		R	MODBUS	52	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_apparent_power_S_L2_1	Logic.Application	TransformerAVR_GVL		Phase_apparent_power_S_L2_1	FLOAT		1		Phase_apparent_power_S_L2_1		R	MODBUS	53	INPUT REGISTER	FLOAT

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OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.TransformerAVR_GVL.Phase_apparent_power_S_L3_1	Logic.Application	TransformerAVR_GVL		Phase_apparent_power_S_L3_1	FLOAT		1		Phase_apparent_power_S_L3_1		R	MODBUS	54	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_power_factor_L1	Logic.Application	TransformerAVR_GVL		Phase_power_factor_L1	FLOAT		1		Phase_power_factor_L1		R	MODBUS	55	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_power_factor_L2	Logic.Application	TransformerAVR_GVL		Phase_power_factor_L2	FLOAT		1		Phase_power_factor_L2		R	MODBUS	56	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_power_factor_L3	Logic.Application	TransformerAVR_GVL		Phase_power_factor_L3	FLOAT		1		Phase_power_factor_L3		R	MODBUS	57	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_Angle_U1l1	Logic.Application	TransformerAVR_GVL		Phase_Angle_U1l1	FLOAT		1		Phase_Angle_U1l1		R	MODBUS	58	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_Angle_U2l2	Logic.Application	TransformerAVR_GVL		Phase_Angle_U2l2	FLOAT		1		Phase_Angle_U2l2		R	MODBUS	59	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_Angle_U3l3	Logic.Application	TransformerAVR_GVL		Phase_Angle_U3l3	FLOAT		1		Phase_Angle_U3l3		R	MODBUS	60	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Tap_Position	Logic.Application	TransformerAVR_GVL		Tap_Position	FLOAT		1		Tap_Position		R	MODBUS	61	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Operation_counter_LSB_MSB	Logic.Application	TransformerAVR_GVL		Operation_counter_LSB_MSB	FLOAT		1		Operation_counter_LSB_MSB		R	MODBUS	174	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Operation_counter_MSB	Logic.Application	TransformerAVR_GVL		Operation_counter_MSB	FLOAT		1		Operation_counter_MSB		R	MODBUS	175	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Desired_power_factor	Logic.Application	TransformerAVR_GVL		Desired_power_factor	FLOAT		1		Desired_power_factor		R	MODBUS	184	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_1	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_1	FLOAT		1		General_purpose_analog_input_1		R	MODBUS	480	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_2	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_2	FLOAT		1		General_purpose_analog_input_2		R	MODBUS	481	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_3	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_3	FLOAT		1		General_purpose_analog_input_3		R	MODBUS	482	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_4	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_4	FLOAT		1		General_purpose_analog_input_4		R	MODBUS	483	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_5	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_5	FLOAT		1		General_purpose_analog_input_5		R	MODBUS	484	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_6	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_6	FLOAT		1		General_purpose_analog_input_6		R	MODBUS	485	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_7	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_7	FLOAT		1		General_purpose_analog_input_7		R	MODBUS	486	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_8	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_8	FLOAT		1		General_purpose_analog_input_8		R	MODBUS	487	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_9	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_9	FLOAT		1		General_purpose_analog_input_9		R	MODBUS	488	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_10	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_10	FLOAT		1		General_purpose_analog_input_10		R	MODBUS	489	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_11	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_11	FLOAT		1		General_purpose_analog_input_11		R	MODBUS	490	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.General_purpose_analog_input_12	Logic.Application	TransformerAVR_GVL		General_purpose_analog_input_12	FLOAT		1		General_purpose_analog_input_12		R	MODBUS	491	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_1	Logic.Application	TransformerAVR_GVL		Band_center_voltage_1	FLOAT		1		Band_center_voltage_1		R	MODBUS	516	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_2	Logic.Application	TransformerAVR_GVL		Band_center_voltage_2	FLOAT		1		Band_center_voltage_2		R	MODBUS	517	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_3	Logic.Application	TransformerAVR_GVL		Band_center_voltage_3	FLOAT		1		Band_center_voltage_3		R	MODBUS	518	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage	Logic.Application	TransformerAVR_GVL		Band_center_voltage	FLOAT		1		Band_center_voltage		R	MODBUS	521	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_Voltage	Logic.Application	TransformerAVR_GVL		Control_Voltage	FLOAT		1		Control_Voltage		R	MODBUS	522	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Total_active_power_total_P	Logic.Application	TransformerAVR_GVL		Total_active_power_total_P	FLOAT		1		Total_active_power_total_P		R	MODBUS	523	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Total_reactive_power_total_Q	Logic.Application	TransformerAVR_GVL		Total_reactive_power_total_Q	FLOAT		1		Total_reactive_power_total_Q		R	MODBUS	524	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Total_apparent_power_total_S	Logic.Application	TransformerAVR_GVL		Total_apparent_power_total_S	FLOAT		1		Total_apparent_power_total_S		R	MODBUS	525	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_phase_voltage_L1L2	Logic.Application	TransformerAVR_GVL		Phase_to_phase_voltage_L1L2	FLOAT		1		Phase_to_phase_voltage_L1L2		R	MODBUS	526	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_phase_voltage_L2L3	Logic.Application	TransformerAVR_GVL		Phase_to_phase_voltage_L2L3	FLOAT		1		Phase_to_phase_voltage_L2L3		R	MODBUS	527	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_phase_voltage_L3L1	Logic.Application	TransformerAVR_GVL		Phase_to_phase_voltage_L3L1	FLOAT		1		Phase_to_phase_voltage_L3L1		R	MODBUS	528	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_neutral_voltage_L1	Logic.Application	TransformerAVR_GVL		Phase_to_neutral_voltage_L1	FLOAT		1		Phase_to_neutral_voltage_L1		R	MODBUS	529	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_neutral_voltage_L2	Logic.Application	TransformerAVR_GVL		Phase_to_neutral_voltage_L2	FLOAT		1		Phase_to_neutral_voltage_L2		R	MODBUS	530	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_to_neutral_voltage_L3	Logic.Application	TransformerAVR_GVL		Phase_to_neutral_voltage_L3	FLOAT		1		Phase_to_neutral_voltage_L3		R	MODBUS	531	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_active_power_P_L1	Logic.Application	TransformerAVR_GVL		Phase_active_power_P_L1	FLOAT		1		Phase_active_power_P_L1		R	MODBUS	532	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_active_power_P_L2	Logic.Application	TransformerAVR_GVL		Phase_active_power_P_L2	FLOAT		1		Phase_active_power_P_L2		R	MODBUS	533	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_active_power_P_L3	Logic.Application	TransformerAVR_GVL		Phase_active_power_P_L3	FLOAT		1		Phase_active_power_P_L3		R	MODBUS	534	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_reactive_power_Q_L1	Logic.Application	TransformerAVR_GVL		Phase_reactive_power_Q_L1	FLOAT		1		Phase_reactive_power_Q_L1		R	MODBUS	535	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_reactive_power_Q_L2	Logic.Application	TransformerAVR_GVL		Phase_reactive_power_Q_L2	FLOAT		1		Phase_reactive_power_Q_L2		R	MODBUS	536	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_reactive_power_Q_L3	Logic.Application	TransformerAVR_GVL		Phase_reactive_power_Q_L3	FLOAT		1		Phase_reactive_power_Q_L3		R	MODBUS	537	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_apparent_power_S_L1	Logic.Application	TransformerAVR_GVL		Phase_apparent_power_S_L1	FLOAT		1		Phase_apparent_power_S_L1		R	MODBUS	538	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_apparent_power_S_L2	Logic.Application	TransformerAVR_GVL		Phase_apparent_power_S_L2	FLOAT		1		Phase_apparent_power_S_L2		R	MODBUS	539	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Phase_apparent_power_S_L3	Logic.Application	TransformerAVR_GVL		Phase_apparent_power_S_L3	FLOAT		1		Phase_apparent_power_S_L3		R	MODBUS	540	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minumum_voltage_value_for_dynamic_setpoint_control	Logic.Application	TransformerAVR_GVL		Minumum_voltage_value_for_dynamic_setpoint_control	FLOAT		1		Minumum_voltage_value_for_dynamic_setpoint_control		R	MODBUS	541	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_voltage_value_for_dynamic_setpoint_control	Logic.Application	TransformerAVR_GVL		Maximum_voltage_value_for_dynamic_setpoint_control	FLOAT		1		Maximum_voltage_value_for_dynamic_setpoint_control		R	MODBUS	542	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W	Logic.Application	TransformerAVR_GVL		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W	FLOAT		1		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W		R	MODBUS	543	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minumum_active_power_value_for_dynamic_setpoint_control	Logic.Application	TransformerAVR_GVL		Minumum_active_power_value_for_dynamic_setpoint_control	FLOAT		1		Minumum_active_power_value_for_dynamic_setpoint_control		R	MODBUS	544	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_active_power_value_for_dynamic_setpoint_control	Logic.Application	TransformerAVR_GVL		Maximum_active_power_value_for_dynamic_setpoint_control	FLOAT		1		Maximum_active_power_value_for_dynamic_setpoint_control		R	MODBUS	545	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Target_tap_position	Logic.Application	TransformerAVR_GVL		Target_tap_position	FLOAT		1		Target_tap_position		R	MODBUS	551	INPUT REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_width_voltage_CMD	Logic.Application	TransformerAVR_GVL		Band_width_voltage_CMD	FLOAT		1		Band_width_voltage_CMD		W	MODBUS	0	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_intentional_time_delay_for_regulation_of_voltage_CMD	Logic.Application	TransformerAVR_GVL		Control_intentional_time_delay_for_regulation_of_voltage_CMD	FLOAT		1		Control_intentional_time_delay_for_regulation_of_voltage_CMD		W	MODBUS	1	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Line_drop_voltage_due_to_line_resistance_component_CMD	Logic.Application	TransformerAVR_GVL		Line_drop_voltage_due_to_line_resistance_component_CMD	FLOAT		1		Line_drop_voltage_due_to_line_resistance_component_CMD		W	MODBUS	2	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Line_drop_voltage_due_to_line_reactance_component_CMD	Logic.Application	TransformerAVR_GVL		Line_drop_voltage_due_to_line_reactance_component_CMD	FLOAT		1		Line_drop_voltage_due_to_line_reactance_component_CMD		W	MODBUS	3	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Control_voltage_below_which_auto_Lower_commands_blocked_CMD	Logic.Application	TransformerAVR_GVL		Control_voltage_below_which_auto_Lower_commands_blocked_CMD	FLOAT		1		Control_voltage_below_which_auto_Lower_commands_blocked_CMD		W	MODBUS	4	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Limit_Load_Current_CMD	Logic.Application	TransformerAVR_GVL		Limit_Load_Current_CMD	FLOAT		1		Limit_Load_Current_CMD		W	MODBUS	5	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Line_drop_voltage_due_to_line_total_impedance_CMD	Logic.Application	TransformerAVR_GVL		Line_drop_voltage_due_to_line_total_impedance_CMD	FLOAT		1		Line_drop_voltage_due_to_line_total_impedance_CMD		W	MODBUS	6	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Tap_position_of_Load_Tap_Changer_where_automatic_Raise_commands_are_blocked_CMD	Logic.Application	TransformerAVR_GVL		Tap_position_of_Load_Tap_Changer_where_automatic_Raise_commands_are_blocked_CMD	FLOAT		1		Tap_position_of_Load_Tap_Changer_where_automatic_Raise_commands_are_blocked_CMD		W	MODBUS	7	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Tap_position_of_Load_Tap_Changer_where_automatic_Lower_commands_are_blocked_CMD	Logic.Application	TransformerAVR_GVL		Tap_position_of_Load_Tap_Changer_where_automatic_Lower_commands_are_blocked_CMD	FLOAT		1		Tap_position_of_Load_Tap_Changer_where_automatic_Lower_commands_are_blocked_CMD		W	MODBUS	8	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_1_1_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_1_1_CMD	FLOAT		1		Band_center_voltage_1_1_CMD		W	MODBUS	9	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_2_1_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_2_1_CMD	FLOAT		1		Band_center_voltage_2_1_CMD		W	MODBUS	10	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_3_1_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_3_1_CMD	FLOAT		1		Band_center_voltage_3_1_CMD		W	MODBUS	11	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minumum_voltage_value_for_dynamic_setpoint_control_1_CMD	Logic.Application	TransformerAVR_GVL		Minumum_voltage_value_for_dynamic_setpoint_control_1_CMD	FLOAT		1		Minumum_voltage_value_for_dynamic_setpoint_control_1_CMD		W	MODBUS	14	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_voltage_value_for_dynamic_setpoint_control_1_CMD	Logic.Application	TransformerAVR_GVL		Maximum_voltage_value_for_dynamic_setpoint_control_1_CMD	FLOAT		1		Maximum_voltage_value_for_dynamic_setpoint_control_1_CMD		W	MODBUS	15	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_1_CMD	Logic.Application	TransformerAVR_GVL		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_1_CMD	FLOAT		1		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_1_CMD		W	MODBUS	16	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minimum_active_power_value_for_dynamic_setpoint_control_1_CMD	Logic.Application	TransformerAVR_GVL		Minimum_active_power_value_for_dynamic_setpoint_control_1_CMD	FLOAT		1		Minimum_active_power_value_for_dynamic_setpoint_control_1_CMD		W	MODBUS	17	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_active_power_value_for_dynamic_setpoint_control_1_CMD	Logic.Application	TransformerAVR_GVL		Maximum_active_power_value_for_dynamic_setpoint_control_1_CMD	FLOAT		1		Maximum_active_power_value_for_dynamic_setpoint_control_1_CMD		W	MODBUS	18	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Desired_power_factor_CMD	Logic.Application	TransformerAVR_GVL		Desired_power_factor_CMD	FLOAT		1		Desired_power_factor_CMD		W	MODBUS	184	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_1_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_1_CMD	FLOAT		1		Band_center_voltage_1_CMD		W	MODBUS	516	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_2_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_2_CMD	FLOAT		1		Band_center_voltage_2_CMD		W	MODBUS	517	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Band_center_voltage_3_CMD	Logic.Application	TransformerAVR_GVL		Band_center_voltage_3_CMD	FLOAT		1		Band_center_voltage_3_CMD		W	MODBUS	518	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minumum_voltage_value_for_dynamic_setpoint_control_CMD	Logic.Application	TransformerAVR_GVL		Minumum_voltage_value_for_dynamic_setpoint_control_CMD	FLOAT		1		Minumum_voltage_value_for_dynamic_setpoint_control_CMD		W	MODBUS	541	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_voltage_value_for_dynamic_setpoint_control_CMD	Logic.Application	TransformerAVR_GVL		Maximum_voltage_value_for_dynamic_setpoint_control_CMD	FLOAT		1		Maximum_voltage_value_for_dynamic_setpoint_control_CMD		W	MODBUS	542	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_CMD	Logic.Application	TransformerAVR_GVL		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_CMD	FLOAT		1		Voltage_value_for_dynamic_setpoint_control_at_active_power_of_0_W_CMD		W	MODBUS	543	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Minimum_active_power_value_for_dynamic_setpoint_control_CMD	Logic.Application	TransformerAVR_GVL		Minimum_active_power_value_for_dynamic_setpoint_control_CMD	FLOAT		1		Minimum_active_power_value_for_dynamic_setpoint_control_CMD		W	MODBUS	544	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Maximum_active_power_value_for_dynamic_setpoint_control_CMD	Logic.Application	TransformerAVR_GVL		Maximum_active_power_value_for_dynamic_setpoint_control_CMD	FLOAT		1		Maximum_active_power_value_for_dynamic_setpoint_control_CMD		W	MODBUS	545	HOLDING REGISTER	FLOAT
Logic.Application.TransformerAVR_GVL.Target_tap_position_CMD	Logic.Application	TransformerAVR_GVL		Target_tap_position_CMD	FLOAT		1		Target_tap_position_CMD		W	MODBUS	551	HOLDING REGISTER	FLOAT
Logic.Application.EMCS_StatusMachine.MODE_MAINTENANCE_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_MAINTENANCE_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_NONE_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_NONE_STATUS.PreconditionsActive	BOOL		1				R	Internal logic			BOOL
Logic.Application.Wind_Farm_GVL.HNAS_AFA70_ActivePower	Logic.Application	Wind_Farm_GVL	HNAS_AFA70	ActivePower	DOUBLE	MW	1		Active Power Production		R	OPC-UA			DOUBLE
Logic.Application.EMCS_StatusMachine.MODE_NONE_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_NONE_STATUS.IsActive	BOOL		1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_NONE_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_NONE_STATUS.ActivationTime	Float		1				R	Internal logic			Float

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EMCS Address Space (OPC-UA)

OPC-UA Path	Prefix	Component	Sub Component	Tag Name	Type	Unit	Scale Factor	Range	Comment	Note	Access R/W	Original Protocol	Original Address Part 1	Original Address Part 2	Original Data Type
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Current_L1	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Current_L1	DOUBLE	A	1		Current Phase U		R	OPC-UA			DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Current_L2	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Current_L2	DOUBLE	A	1		Current Phase V		R	OPC-UA			DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Current_L3	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Current_L3	DOUBLE	A	1		Current Phase W		R	OPC-UA			DOUBLE
Logic.Application.EMCS_StatusMachine.MODE_NONE_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_NONE_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_NONE_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_NONE_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_POWER_OUT_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_POWER_OUT_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_POWER_OUT_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_POWER_OUT_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_POWER_OUT_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_POWER_OUT_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_POWER_OUT_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_POWER_OUT_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.EMCS_StatusMachine.MODE_POWER_OUT_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_POWER_OUT_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_ReactivePower	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	ReactivePower	DOUBLE		1		Reactive Power Production		R	OPC-UA			DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Voltage_L1	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Voltage_L1	DOUBLE		1		Voltage Phase U		R	OPC-UA			DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Voltage_L2	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Voltage_L2	DOUBLE		1		Voltage Phase V		R	OPC-UA			DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_Voltage_L3	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	Voltage_L3	DOUBLE		1		Voltage Phase W		R	OPC-UA			DOUBLE
Logic.Application.Wind_Farm_GVL.HNA5_AFA70_StatusCode	Logic.Application	Wind_Farm_GVL	HNA5_AFA70	StatusCode	INT32		1		Reflects turbine state 0= Operating on Grid 1= Operating- waiting for converter cut-in 2= Operating- waiting for release 3= Operating- waiting for wind/ acceleration 4= Stopped - pitch exercising/lubrication 5= Stopped - untwisting cables 6= Stopped - Wind Speed too high *7= Stopped - Grid Error *8= Stopped - Error with auto reset (only applicable for WTC3) *9= Stopped - manual alarm reset required *10 = Safety Stop (only applicable for WTC3) *11= Remote Stop	The * prefix indicates that the status lead to a Wind Tuerbine fault	R	OPC-UA			INT32
Logic.Application.EMCS_StatusMachine.MODE_RESEARCH_STATUS_PreconditionsActive	Logic.Application	EMCS_StatusMachine		MODE_RESEARCH_STATUS.PreconditionsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_RESEARCH_STATUS_IsActive	Logic.Application	EMCS_StatusMachine		MODE_RESEARCH_STATUS.IsActive	BOOL	-	1				R	Internal logic			BOOL
Logic.Application.EMCS_StatusMachine.MODE_RESEARCH_STATUS_ActivationTime	Logic.Application	EMCS_StatusMachine		MODE_RESEARCH_STATUS.ActivationTime	Float		1				R	Internal logic			Float
Logic.Application.EMCS_StatusMachine.MODE_RESEARCH_STATUS_ExecutorStatus	Logic.Application	EMCS_StatusMachine		MODE_RESEARCH_STATUS.ExecutorStatus	Int16		1		Enumeration 0:Idle 1:Init 2:Running 3:Stopping		R	Internal logic			Int16
Logic.Application.Wind_Farm_GVL.HNA5_QA1_Status	Logic.Application	Wind_Farm_GVL	HNA5_QA1	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_CBQA1/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_QZ91_Status	Logic.Application	Wind_Farm_GVL	HNA5_QZ91	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_DSQZ91/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_QZ92_Status	Logic.Application	Wind_Farm_GVL	HNA5_QZ92	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_DSQZ92/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_QZ93_Status	Logic.Application	Wind_Farm_GVL	HNA5_QZ93	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_DSQZ93/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_EQZ91_Status	Logic.Application	Wind_Farm_GVL	HNA5_EQZ91	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_ESQZ91/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_EQZ92_Status	Logic.Application	Wind_Farm_GVL	HNA5_EQZ92	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_ESQZ92/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_EQZ93_Status	Logic.Application	Wind_Farm_GVL	HNA5_EQZ93	Status	UDINT		1		0: Opened 1: Closed 2: Intermediate 3: Disturbed		R	OPC-UA	HNA5_ESQZ93/CSWI1/Pos/stVal[ST]		UDINT
Logic.Application.Wind_Farm_GVL.HNA5_Signals_Auto_reclose_disabled	Logic.Application	Wind_Farm_GVL	HNA5_Signals	Auto_reclose_disabled	BOOL		1		0: Enabled, 1: Disabled		R	OPC-UA	HNA5_Signals/USER1/AROFF/stVal[ST]		BOOL
Logic.Application.Wind_Farm_GVL.HNA5_Signals_SWG_Tripped_Lockout	Logic.Application	Wind_Farm_GVL	HNA5_Signals	SWG_Tripped_Lockout	BOOL		1		0:Healthy, 1:Tripped and Lockout		R	OPC-UA	HNA5_Signals/USER1/Lockout/stVal[ST]		BOOL
Logic.Application.Wind_Farm_GVL.HNA5_Signals_NoGridVoltage	Logic.Application	Wind_Farm_GVL	HNA5_Signals	NoGridVoltage	BOOL		1		0:Grid Voltage, 1:No Grid Voltage		R	OPC-UA	HNA5_Signals/USER1/NoGridV/stVal[ST]		BOOL
Logic.Application.Wind_Farm_GVL.HNA5_Signals_Switchgear_Remote_Mode	Logic.Application	Wind_Farm_GVL	HNA5_Signals	Switchgear_Remote_Mode	BOOL		1		0:Local, 1:Remote		R	OPC-UA	HNA5_Signals/USER1/SWGRemote/stVal[ST]		BOOL
Logic.Application.Wind_Farm_GVL.HNA5_Vt3p1_Current_phase_A	Logic.Application	Wind_Farm_GVL	HNA5_Vt3p1	Current_phase_A	REAL	A	1				R	OPC-UA	HNA5_Vt3p1_OperationalValues/RPRE_MMXU1!A.phsA/cVal.mag.f[MX]		REAL
Logic.Application.Wind_Farm_GVL.HNA5_Vt3p1_Current_phase_B	Logic.Application	Wind_Farm_GVL	HNA5_Vt3p1	Current_phase_B	REAL	A	1				R	OPC-UA	HNA5_Vt3p1_OperationalValues/RPRE_MMXU1!A.phsB/cVal.mag.f[MX]		REAL
Logic.Application.Wind_Farm_GVL.HNA5_Vt3p1_Current_phase_C	Logic.Application	Wind_Farm_GVL	HNA5_Vt3p1	Current_phase_C	REAL	A	1				R	OPC-UA	HNA5_Vt3p1_OperationalValues/RPRE_MMXU1!A.phsC/cVal.mag.f[MX]		REAL
Logic.Application.Wind_Farm_GVL.HNA5_Vt3p1_Current_Neutral_point_measuried	Logic.Application	Wind_Farm_GVL	HNA5_Vt3p1	Current_Neutral_point_measuried	REAL	A	1				R	OPC-UA			REAL
Logic.Application.Wind_Farm_GVL.HNA5_QA1_ReadyToClose	Logic.Application	Wind_Farm_GVL	HNA5_QA1	ReadyToClose			1			Still missing in the source I/O list	R	OPC-UA			
Logic.Application.EMCS_StatusMachine.MODE_RESEARCH_STATUS_Inertia	Logic.Application	EMCS_StatusMachine		MODE_RESEARCH_STATUS.Inertia	Int16		1				R	Internal logic			Int16
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SPARE1_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SPARE1_1	BOOL	-	1		spare		R	PROFINET	130 (Bit Reference 14)	INPUT REGISTER	BOOL
Logic.Application.ELECTROLYZER_GVL.InterlockProcessFaultWarning_SPARE2_1	Logic.Application	ELECTROLYZER_GVL	InterlockProcessFaultWarning	SPARE2_1	BOOL	-	1		spare		R	PROFINET	130 (Bit Reference 15)	INPUT REGISTER	BOOL
Logic.Application.IO_CARD_GVL.INPUT_012	Logic.Application	IO_CARD_GVL		INPUT_012	BOOL	-	1			Hardwired signal	R				BOOL
Logic.Application.IO_CARD_GVL.INPUT_022	Logic.Application	IO_CARD_GVL		INPUT_022	BOOL	-	1			Hardwired signal	R				BOOL
Logic.Application.IO_CARD_GVL.INPUT_023	Logic.Application	IO_CARD_GVL		INPUT_023	BOOL	-	1			Hardwired signal	R				BOOL
Logic.Application.IO_CARD_GVL.INPUT_024	Logic.Application	IO_CARD_GVL		INPUT_024	BOOL	-	1			Hardwired signal	R				BOOL

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EMCS Address Space (MODBUS)

Tag	Function Type	Register Address	Data Type	Unit	Description	Notes
PCS.EMCS.PermToStartFC	Coil	02	BOOL	-	Permissive to start Fuel Cell sent by PCS	Permissive to start the Fuel Cell
PCS.EMCS.PermToStartEL	Coil	03	BOOL	-	Permissive to start Electrolyzer sent by PCS	Permissive to start the Electrolyzer
PCS.EMCS.ProcessFullyCharged	Coil	04	BOOL	-	PCS indicates if the Fuel Tanks are full	Flag indicating when the Hydrogen Storage is full
PCS.EMCS.BESSFault	Coil	05	BOOL	-	Sent by PCS. 1: fault; 0: OK. When 1 the BESS must be immediately stopped	
PCS.EMCS.ESD-1D	Coil	06	BOOL	-	PCS commands the EMCS to go in Power Out mode	
PCS.CmdToLoadShedStage1	DiscreteInput	01	BOOL	-	Request sent from EMCS to PCS to activate the Load Shedding of EMERGENCY MODE	The load shedding of the devices belonging to the first list is performed
PCS.CmdToLoadShedStage2	DiscreteInput	02	BOOL	-	Request sent from EMCS to PCS to activate the Load Shedding of LOW BESS LEVEL	The load shedding of the devices belonging to the second list is performed
PCS.EntertMode	InputRegister	01	UINT16	-	EMCS Mode Enumeration 0:NONE 1:IDLE 3:IMPORT_ABLE_TO_CHARGE 4:IMPORT_ NOT_ABLE_ TO CHARGE 5:HOT_STANDBY 6:EXPORT 7:COLD_STANDBY 8:EMERGENCY 9:POWER_OUT 10:MAINTENANCE 11:RESEARCH	Request sent by the EMCS to the PCS to enter in a specific mode. The PCS monitor the value change to capture the mode request. POWER OUT mode is a special condition. The EMCS move to the POWER OUT mode without waiting the PCS permission.
PCS.CurrentMode	InputRegister	02	UINT16	-	EMCS Mode Enumeration 0:NONE 1:IDLE 3:IMPORT_ABLE_TO_CHARGE 4:IMPORT_ NOT_ABLE_ TO CHARGE 5:HOT_STANDBY 6:EXPORT 7:COLD_STANDBY 8:EMERGENCY 9:POWER_OUT 10:MAINTENANCE 11:RESEARCH	EMCS communicates through this register which is its current MODE. The PCS listen for the mode change. If the POWER OUT MODE is reached, the PCS takes the predefined actions (trip everything)

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EMCS Address Space (MODBUS)

Tag	Function Type	Register Address	Data Type	Unit	Description	Notes
FuelCellOperatingStatus	InputRegister	03	UINT16		6: Initialization (Initialize) 10: Sleep (Sleep) 14: Wakeup (StartupContainerVentilation) 17: Wakeup (FCwaveWakeup) 19: Wakeup (HydrogenHeaterStartup) 20: Standby (Standby) 30: Startup (BatteryStartup) 40: Startup (NanogridStartup) 50: Startup (LTCoolantStartup) 60: Startup (MicrogridStartup) 100:Running (Running) 105:Rampdown (RampDownPower) 110:Rampdown (MicrogridShutdown) 120:Rampdown (ChargeBattery) 130:Rampdown (ShutdownFCwaves) 140:Aftercool (Aftercool) 160:Shutdown (ShutdownNanogrid) 172:Shutdown (ShutdownHydorgenHeater) 180:Shutdown (PutFCwavesToSleep) 190:Shutdown (ShutdownVentilation) 200:Error (Error)	
ElectrolyzerOperatingStatus	InputRegister	04	UINT16		LOCAL MODE 0 : MISE POWER ON (POWER ON) 1 : MODE STOP (STOP) 2 : MODE IDLE (IDLE) 3 : MODE STAND BY 4 : MODE PRODUCTION 5 : MODE MANUEL 6 : MODE Stop in progress 7. MODE Start in progress 8. MODE IDLE in progress 9. STAND BY in progress 10. Standby DISTANT MODE 11 : MISE POWER ON (POWER ON) 12 : MODE STOP (STOP) 13 : MODE IDLE (IDLE) 14 : MODE STANDY BY (STANDY BY) 15 : MODE PRODUCTION 16 : MODE Stop in progress 17. MODE Start in progress 18. MODE IDLE in progress 19. STAND BY in progress	
FuelCell_FC1_State	InputRegister	05	UINT16		Reading FC1 state from FC	Reading from FC States
FuelCell_FC2_State	InputRegister	06	UINT16		Reading FC2 state from FC	
FuelCell_FC3_State	InputRegister	07	UINT16		Reading FC3 state from FC	
FuelCell_FC4_State	InputRegister	08	UINT16		Reading FC4 state from FC	
FuelCell_FC5_State	InputRegister	09	UINT16		Reading FC5 state from FC	
FuelCell_FC6_State	InputRegister	10	UINT16		Reading FC6 state from FC	
Water_request	InputRegister	11	BOOL		WTP Signal Reading from Electrolyzer	

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EMCS Address Space (MODBUS)

Tag	Function Type	Register Address	Data Type	Unit	Description	Notes
PCS.EMCS.PermToEnterMode	HoldingRegister	01	UINT16	-	EMCS Mode Enmeration 0:NONE 1:IDLE 3:IMPORT_ABLE_TO_CHARGE 4:IMPORT_ NOT_ABLE_ TO CHARGE 5:HOT_STANDBY 6:EXPORT 7:COLD_STANDBY 8:EMERGENCY 9:POWER_OUT 10:MAINTENANCE 11:RESEARCH	Permissive to enter in the mode indicated by the register value.
PCS.EMCS.HydrogenLevel	HoldingRegister	02	UINT16	Kg	Hydrogen level in Kg. PCS communicates the level periodically to the EMCS.	
Spare	HoldingRegister	03	INT16			
PCS.PermissiveModeTimeout	HoldingRegister	04	UINT16	s	Default 3 sec	
PCS.WTP.PH	HoldingRegister	05-06	FLOAT	pH	Fresh water outlet pH	Most Significant Register First
PCS.WTP.Temperature	HoldingRegister	07-08	FLOAT	°C	Fresh water outlet temperature	Most Significant Register First
PCS.WTP.Hardness	HoldingRegister	09-10	FLOAT	ppm CaCO3	Fresh water outlet total hardness	Most Significant Register First
PCS.WTP.Conductivity	HoldingRegister	11-12	FLOAT	uS/cm	Fresh water conductivity from A-50007A/B	Most Significant Register First
PCS_Spare_1	HoldingRegister	13-14	FLOAT		SPARE	
PCS_Spare_2	HoldingRegister	15-16	FLOAT		SPARE	
PCS_Spare_3	HoldingRegister	17-18	FLOAT		SPARE	
PCS_Spare_4	HoldingRegister	19-20	FLOAT		SPARE	
PCS.BESS_ActivePowerSetPointCmd	HoldingRegister	21-22	FLOAT	kW	BESS Active Power Set Point [-1000, 1000]	Most Significant Register First
PCS.BESS_OperatingStatusCmd	HoldingRegister	23	INT16	-	BitMask Dec 0: Stop; 0 1:Reset; 1 13: Start 8192	

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CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-I-WP4-2023-05	ROSETTI MARINO
Document Title:	EMCS_IO_List	Date: 11/06/2025 Rev. 02

EMCS HW I/O

Tag	From Equipment	From Device	To Equipment	To Device	COMM Interf.	Signal Type	Remark	Address	OPC UA Path
GRID FORMING MODE	EMCS	AXION DO Module	BESS	BESS	HW I/O	DO	cable 85002-CEC	0	
VENTILATION FAILURE	EMCS	AXION DI Module	EMCS PANEL	EMCS PANEL	HW I/O	DI	cable 85002-CEC	12	Logic.Application.IO_CARD_GVL.INPUT_012
POWER SUPPLY FAILURE	EMCS	AXION DI Module	EMCS PANEL	EMCS PANEL	HW I/O	DI	cable 85002-CEC	22	Logic.Application.IO_CARD_GVL.INPUT_022
BREAKER FAILURE	EMCS	AXION DI Module	EMCS PANEL	EMCS PANEL	HW I/O	DI	cable 85002-CEC	23	Logic.Application.IO_CARD_GVL.INPUT_023
HIGH TEMPERATURE	EMCS	AXION DI Module	EMCS PANEL	EMCS PANEL	HW I/O	DI	cable 85002-CEC	24	Logic.Application.IO_CARD_GVL.INPUT_024

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