Base Load Power Hub (BLPH)

INSTRUMENT AIR PACKAGE

I/O LIST

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COES

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ISSUER:

ISSUER DOCUMENT CODE :

DOCUMENT TITLE :

INPUT-OUTPUT LIST

PROJECT DESCRIPTION :

COES_DRYER

CLIENT :

CUSTOMER'S REFERENCES :

JOB
SYSTEM OR EQUIPMENT
CONTRACT
P. & ID.

Rev.	Date	Purpose of issue	Prepared by	Checked by	Approved by
0.2	05/05/2025	FOR APPROVAL	RM	RM	RM
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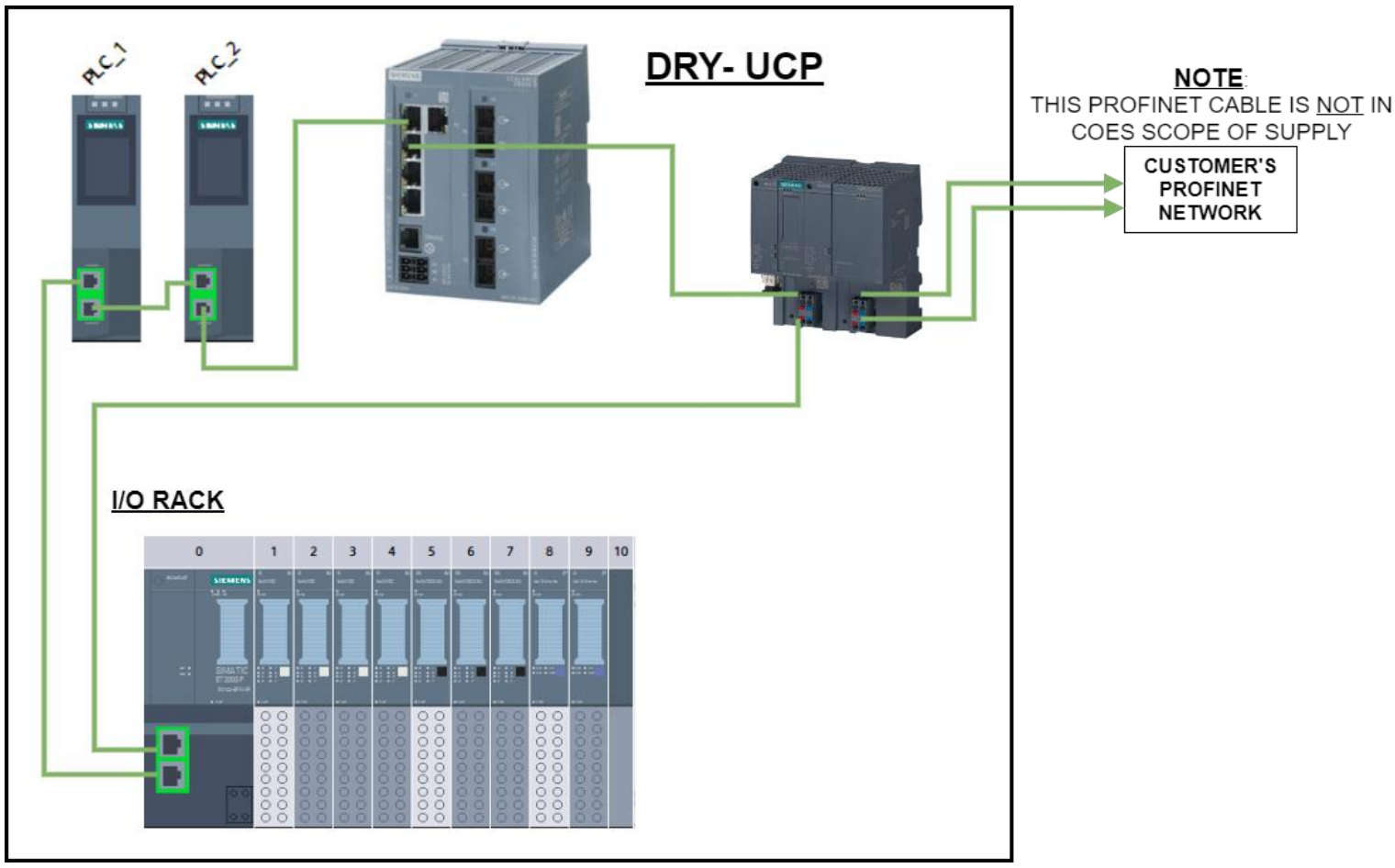
HARDWARE CONFIGURATION

N. SLOT	CODE	DESCRIPTION
IA A-63000 (DRYER LOCAL PANEL)		
CPU + ADDITIONAL COMPONENTS		
CPU_A	6ES7513-1RL00-0AB0 + 6ES7954-8LE03-0AA0	CPU 1513R-1PN SIMATIC S7-1500R, CPU 1513R-1PN, central processing unit with 300 KB work memory for program and 1.5 MB for data, 1st interface: PROFINET RT with 2-port switch +MEMORY CARD 12MB (6ES7954-8LE03-0AA0)
CPU_B	6ES7513-1RL00-0AB0 + 6ES7954-8LE03-0AA0	CPU 1513R-1PN SIMATIC S7-1500R, CPU 1513R-1PN, central processing unit with 300 KB work memory for program and 1.5 MB for data, 1st interface: PROFINET RT with 2-port switch +MEMORY CARD 12MB (6ES7954-8LE03-0AA0)
SWITCH	6GK5205-3BD00-2AB2	SCALANCE XB205-3 manageable Layer 2 IE Switch 5x porte RJ45 da 10/100 Mbit/s 3x porta MM FO SC 1x porta di console, LED di diagnostica, ridondante alimentazione di tensione; certificato IEC 62443-4-2
PN/PN Coupler	6ES7158-3AD10-0XA0	SIMATIC PN/PN Coupler for deterministic data exchange between max.4 PN-Controller per subnet, also from subnet to subnet, PROFIsafe data exchange, I/O-, MSI-, MSO- and data record communication, redundant power supply
RACK I/O		
SLOT 0	6ES7155-6AU01-0CN0 + 6ES7193-6AR00-0AA0	ET 200SP, IM155-6PN/2 HF SIMATIC ET 200SP, PROFINET, 2-port interface module IM 155-6PN/2 High Feature(6ES7155-6AU01-0CN0), 1 slot for BusAdapter, max. 64 I/O modules and 16 ET 200AL modules, S2 redundancy, multi-hotswap, 0.25 ms, isochronous mode, optional PN strain relief, including server module (6ES7193-6PA00-0AA0) + BusAdapter BA 2xRJ45 (6ES7193-6AR00-0AA0)
SLOT 1	6ES7131-6BF01-0AA0 + 6ES7193-6BP00-0DA0	ET 200SP, DI 8x 24V DC Basic, PU □ SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Basic, type 2 (IEC 61131), sink input, (PNP, P-reading) (6ES7131-6BF01-0AA0) and BaseUnit BU15-P16+A0+2D, BU type A0, push-in terminals, without aux. terminals, new load group (6ES7193-6BP00-0DA0)
SLOT 2	6ES7131-6BF01-0AA0 +6ES7193-6BP00-0BA0	ET 200SP, DI 8x 24V DC Basic, PU □ SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Basic, type 2 (IEC 61131), sink input, (PNP, P-reading) (6ES7131-6BF01-0AA0) BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, load group bridged to the left (6ES7193-6BP00-0BA0)
SLOT 3	6ES7131-6BF01-0AA0 +6ES7193-6BP00-0BA0	ET 200SP, DI 8x 24V DC Basic, PU □ SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Basic, type 2 (IEC 61131), sink input, (PNP, P-reading) (6ES7131-6BF01-0AA0) BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, load group bridged to the left (6ES7193-6BP00-0BA0)
SLOT 4	6ES7131-6BF01-0AA0 +6ES7193-6BP00-0BA0	ET 200SP, DI 8x 24V DC Basic, PU □ SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Basic, type 2 (IEC 61131), sink input, (PNP, P-reading) (6ES7131-6BF01-0AA0) BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, load group bridged to the left (6ES7193-6BP00-0BA0)
SLOT 5	6ES7132-6BF01-0AA0 + 6ES7193-6BP00-0DA0	ET 200SP, DQ 8x 24V DC/0,5A Basic, PU □ SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Basic, Source output (PNP,P-switching) (6ES7132-6BF01-0AA0) and BaseUnit BU15-P16+A0+2D, BU type A0, push-in terminals, without aux. terminals, new load group (6ES7193-6BP00-0DA0)
SLOT 6	6ES7132-6BF01-0AA0 +6ES7193-6BP00-0BA0	ET 200SP, DQ 8x 24V DC/0,5A Basic, PU □ SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Basic, Source output (PNP,P-switching) (6ES7132-6BF01-0AA0) BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, load group bridged to the left (6ES7193-6BP00-0BA0)
SLOT 7	6ES7132-6BF01-0AA0 +6ES7193-6BP00-0BA0	ET 200SP, DQ 8x 24V DC/0,5A Basic, PU □ SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Basic, Source output (PNP,P-switching) (6ES7132-6BF01-0AA0) BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, load group bridged to the left (6ES7193-6BP00-0BA0)
SLOT 8	6ES7134-6GD01-0BA1 + 6ES7193-6BP00-0DA0	ET 200SP, AI 4XI 2-/4-Wire ST, PU 1 SIMATIC ET 200SP, ANALOG INPUT MODULE, AI 4XI 2-/4-WIRE STANDARD (6ES7134-6GD01-0BA1) and BaseUnit BU15-P16+A0+2D, BU type A0, push-in terminals, without aux. terminals, new load group (6ES7193-6BP00-0DA0)
SLOT 9	6ES7134-6GD01-0BA1 +6ES7193-6BP00-0BA0	ET 200SP, AI 4XI 2-/4-Wire ST, PU 1 SIMATIC ET 200SP, ANALOG INPUT MODULE, AI 4XI 2-/4-WIRE STANDARD (6ES7134-6GD01-0BA1) BaseUnit BU15-P16+A0+2B, BU type A0, Push-in terminals, without AUX terminals, load group bridged to the left (6ES7193-6BP00-0BA0)
SLOT 10	/	Modulo Server (Incluso nella 6ES7155-6AU01-0CN0 - Slot 0)

Note: Base unit connection for each I/O Card has been indicated in I/O List sheet.

NETWORK ARCHITECTURE

NR	IP ADDRESS	COMMENT
1	192.168.9.8 / 255.255.255.0	REDUNDANCY CPUs SYSTEM ADDRESS
2	192.168.9.9 / 255.255.255.0	PLC 1 ADDRESS
3	192.168.9.10 / 255.255.255.0	PLC 2 ADDRESS
4	192.168.9.11 / 255.255.255.0	SWITCH ADDRESS
5	192.168.9.12 / 255.255.255.0	INTERFACE MODULE ADDRESS (I/O RACK)
6	192.168.9.13 / 255.255.255.0	COUPLER ADDRESS (IN THE RING)
7	192.168.9.14 / 255.255.255.0	COUPLER ADDRESS(NOT IN THE RING)



IA A-63000 (DRYER LOCAL PANEL)				
CPU RACK				
CPU_1	CPU 1513R-1PN	6ES7513-1RL00-0AB0		
CPU_2	CPU 1513R-1PN	6ES7513-1RL00-0AB0		
I/O RACK				
RACK F1 SLOT 0	ET 200SP, IM155-6PN/2 HF	6ES7155-6AU01-0CN0		
RACK F1 SLOT 1	INPUT MODULE: DI 8x 24V DC Basic	6ES7131-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0DA0 (WHITE type +A0, BU15-P16+A0+2D)
RACK F1 SLOT 1 IN 0	%I0.0	(DRYER 1) TOWER A PRESSURE SWITCH	63-PS-054	
RACK F1 SLOT 1 IN 1	%I0.1	(DRYER 1) TOWER B PRESSURE SWITCH	63-PS-056	
RACK F1 SLOT 1 IN 2	%I0.2	(DRYER 2) TOWER A PRESSURE SWITCH	63-PS-058	
RACK F1 SLOT 1 IN 3	%I0.3	(DRYER 2) TOWER B PRESSURE SWITCH	63-PS-060	
RACK F1 SLOT 1 IN 4	%I0.4	COMPRESSOR 1 RUNNING	63-CMPR-RUN-FDBCK-001	
RACK F1 SLOT 1 IN 5	%I0.5	COMPRESSOR 1 COMMON ALARM	63-CMPR-ALARM-FDBCK-001	
RACK F1 SLOT 1 IN 6	%I0.6	COMPRESSOR 2 RUNNING	63-CMPR-RUN-FDBCK-002	
RACK F1 SLOT 1 IN 7	%I0.7	COMPRESSOR 2 COMMON ALARM	63-CMPR-ALARM-FDBCK-002	
RACK F1 SLOT 2	INPUT MODULE: DI 8x 24V DC Basic	6ES7131-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0BA0 (BLACK, type A0, BU15-P16+A0+2B)
RACK F1 SLOT 2 IN 0	%I1.0	SOURGE ARRESTER 230VAC_SERVICES OK	63-20FS-12	
RACK F1 SLOT 2 IN 1	%I1.1	SOURGE ARRESTER 230VAC_UPS OK	63-21FS-12	
RACK F1 SLOT 2 IN 2	%I1.2	INTERNAL CABINET THERMOSTAT	63-TH-001	
RACK F1 SLOT 2 IN 3	%I1.3	LOCAL START PUSH BUTTON	63-HS-001	
RACK F1 SLOT 2 IN 4	%I1.4	LOCAL STOP PUSH BUTTON	63-HS-002	
RACK F1 SLOT 2 IN 5	%I1.5	LOCAL ALARM RESET	63-HS-003	
RACK F1 SLOT 2 IN 6	%I1.6	LOCAL REMOTE SELECTOR STATUS	63-HS-004	
RACK F1 SLOT 2 IN 7	%I1.7	SHUTDOWN ALARM FROM SIS - INDICATION ONLY	63-ESD-001	(processed by SIL 2 Relay) & Emergency pushbutton on 63-LP-001
RACK F1 SLOT 3	INPUT MODULE: DI 8x 24V DC Basic	6ES7131-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0BA0 (BLACK, type A0, BU15-P16+A0+2B)
RACK F1 SLOT 3 IN 0	%I2.0	VALVE 63-XV-055 OPEN LIMIT SWITCH	63-ZSH-055	
RACK F1 SLOT 3 IN 1	%I2.1	VALVE 63-XV-055 CLOSED LIMIT SWITCH	63-ZSL-055	
RACK F1 SLOT 3 IN 2	%I2.2	VALVE 63-XV-056 OPEN LIMIT SWITCH	63-ZSH-056	
RACK F1 SLOT 3 IN 3	%I2.3	VALVE 63-XV-056 CLOSED LIMIT SWITCH	63-ZSL-056	
RACK F1 SLOT 3 IN 4	%I2.4	VALVE 63-XV-057 OPEN LIMIT SWITCH	63-ZSH-057	
RACK F1 SLOT 3 IN 5	%I2.5	VALVE 63-XV-057 CLOSED LIMIT SWITCH	63-ZSL-057	
RACK F1 SLOT 3 IN 6	%I2.6	VALVE 63-XV-058 OPEN LIMIT SWITCH	63-ZSH-058	
RACK F1 SLOT 3 IN 7	%I2.7	VALVE 63-XV-058 CLOSED LIMIT SWITCH	63-ZSL-058	
RACK F1 SLOT 4	INPUT MODULE: DI 8x 24V DC Basic	6ES7131-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0BA0 (BLACK, type A0, BU15-P16+A0+2B)
RACK F1 SLOT 4 IN 0	%I3.0	VALVE 63-XV-059 OPEN LIMIT SWITCH	63-ZSH-059	
RACK F1 SLOT 4 IN 1	%I3.1	VALVE 63-XV-059 CLOSED LIMIT SWITCH	63-ZSL-059	
RACK F1 SLOT 4 IN 2	%I3.2	VALVE 63-XV-060 OPEN LIMIT SWITCH	63-ZSH-060	
RACK F1 SLOT 4 IN 3	%I3.3	VALVE 63-XV-060 CLOSED LIMIT SWITCH	63-ZSL-060	
RACK F1 SLOT 4 IN 4	%I3.4	SPARE		
RACK F1 SLOT 4 IN 5	%I3.5	SPARE		
RACK F1 SLOT 4 IN 6	%I3.6	SPARE		
RACK F1 SLOT 4 IN 7	%I3.7	SPARE		
RACK F1 SLOT 5	OUTPUT MODULE: DQ 8x 24V DC/0,5A	6ES7132-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0DA0 (WHITE type +A0, BU15-P16+A0+2D)
RACK F1 SLOT 5 OUT 0	%Q0.0	(DRYER 1) 5-WAY VALVE SOV COMMAND	63-XY-051	
RACK F1 SLOT 5 OUT 1	%Q0.1	(DRYER 1) DEPRESSURIZATION VALVE SOV COMMAND	63-XY-052	
RACK F1 SLOT 5 OUT 2	%Q0.2	(DRYER 2) 5-WAY VALVE SOV COMMAND	63-XY-053	
RACK F1 SLOT 5 OUT 3	%Q0.3	(DRYER 2) DEPRESSURIZATION VALVE SOV COMMAND	63-XY-054	
RACK F1 SLOT 5 OUT 4	%Q0.4	RUNNING STATUS LAMP	63-XL-003	
RACK F1 SLOT 5 OUT 5	%Q0.5	GENERAL ALARM LAMP	63-XA-001	
RACK F1 SLOT 5 OUT 6	%Q0.6	COMPRESSOR 1 REMOTE START/STOP	63-CMPR-START-001	
RACK F1 SLOT 5 OUT 7	%Q0.7	COMPRESSOR 2 REMOTE START/STOP	63-CMPR-START-002	
RACK F1 SLOT 6	OUTPUT MODULE: DQ 8x 24V DC/0,5A	6ES7132-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0BA0 (BLACK, type A0, BU15-P16+A0+2B)
RACK F1 SLOT 6 OUT 0	%Q1.0	DRYER 1 ALARM	63-ALARM-DRY-001	
RACK F1 SLOT 6 OUT 1	%Q1.1	DRYER 2 ALARM	63-ALARM-DRY-002	
RACK F1 SLOT 6 OUT 2	%Q1.2	VALVE 63-XV-055 COMMAND	63-XV-055	
RACK F1 SLOT 6 OUT 3	%Q1.3	VALVE 63-XV-056 COMMAND	63-XV-056	
RACK F1 SLOT 6 OUT 4	%Q1.4	VALVE 63-XV-057 COMMAND	63-XV-057	
RACK F1 SLOT 6 OUT 5	%Q1.5	VALVE 63-XV-058 COMMAND	63-XV-058	
RACK F1 SLOT 6 OUT 6	%Q1.6	VALVE 63-XV-059 COMMAND	63-XV-059	
RACK F1 SLOT 6 OUT 7	%Q1.7	VALVE 63-XV-060 COMMAND	63-XV-060	
RACK F1 SLOT 7	OUTPUT MODULE: DQ 8x 24V DC/0,5A	6ES7132-6BF01-0AA0		BASE UNIT: 6ES7193-6BP00-0BA0 (BLACK, type A0, BU15-P16+A0+2B)
RACK F1 SLOT 7 OUT 0	%Q2.0	SPARE		
RACK F1 SLOT 7 OUT 1	%Q2.1	RESET PB FORCE THE OUTPUT SIGNAL 63-XA-003 TO 1 FOR 5 SECOND	RESET_FORCED	
RACK F1 SLOT 7 OUT 2	%Q2.2	SPARE		
RACK F1 SLOT 7 OUT 3	%Q2.3	SPARE		
RACK F1 SLOT 7 OUT 4	%Q2.4	SPARE		
RACK F1 SLOT 7 OUT 5	%Q2.5	SPARE		
RACK F1 SLOT 7 OUT 6	%Q2.6	SPARE		
RACK F1 SLOT 7 OUT 7	%Q2.7	SPARE		
RACK F1 SLOT 8	AN. INPUT MODULE: AI 4xI 2/4 wire 4-20mA	6ES7134-6GD01-0BA1		BASE UNIT: 6ES7193-6BP00-0DA0 (WHITE type +A0, BU15-P16+A0+2D)
RACK F1 SLOT 8 A. IN. 0	%IW4	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER	63-PT-064	
RACK F1 SLOT 8 A. IN. 1	%IW6	TEMPERATURE TRANSMITTER INLET AIR	63-TIT-051	
RACK F1 SLOT 8 A. IN. 2	%IW8	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER	63-TIT-052	
RACK F1 SLOT 8 A. IN. 3	%IW10	DEW POINT TRANSMITTER	63-AIT-051	
RACK F1 SLOT 9	AN. INPUT MODULE: AI 4xI 2/4 wire 4-20mA	6ES7134-6GD01-0BA1		BASE UNIT: 6ES7193-6BP00-0BA0 (BLACK, type A0, BU15-P16+A0+2B)
RACK F1 SLOT 9 A. IN. 0	%IW12	FLOW TRANSMITTER OUTLET AIR	63-FIT-051	
RACK F1 SLOT 9 A. IN. 1	%IW14	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS	63-PDIT-051	
RACK F1 SLOT 9 A. IN. 2	%IW16	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS	63-PDIT-062	
RACK F1 SLOT 9 A. IN. 3	%IW18	SPARE		
RACK 1 SLOT 9	SERVER MODULE	6ES7193-6PA00-0AA0		

IA A-63000

PROFINET SIGNALS TABLE

Rev 4

N. BYTE	N. BIT	DATA TYPE	TAG	DESCRIPTION	MEANING	SCALING	OFFSET	READ/WRITE	
1000	0	BOOL	RED_FAIL	REDUNDANCY CPU FAILURE	0=ALARM, 1=OK			R	ALARMS
	1	BOOL	CPU_SWITCH	PRIMARY CPU SWITCH	0=ALARM, 1=OK			R	
	2	BOOL	IM_ERR	IM ERROR	0=ALARM, 1=OK			R	
	3	BOOL	PNPN_ERR	PNPN COUPLER ERROR	0=ALARM, 1=OK			R	
	4	BOOL	NET_ERR	NETWORK PN/IE_1 ERROR	0=ALARM, 1=OK			R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1001	0	BOOL	63-XY-055-H	VALVE 63-XY-055 ALARM	0=ALARM, 1=OK			R	
	1	BOOL	63-XY-056-H	VALVE 63-XY-056 ALARM	0=ALARM, 1=OK			R	
	2	BOOL	63-XY-057-H	VALVE 63-XY-057 ALARM	0=ALARM, 1=OK			R	
	3	BOOL	63-XY-058-H	VALVE 63-XY-058 ALARM	0=ALARM, 1=OK			R	
	4	BOOL	63-XY-059-H	VALVE 63-XY-059 ALARM	0=ALARM, 1=OK			R	
	5	BOOL	63-XY-060-H	VALVE 63-XY-060 ALARM	0=ALARM, 1=OK			R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1002	0	BOOL	63-PS-054-H	ALARM (DRYER 1) TOWER A PRESSURE SWITCH	0=ALARM, 1=OK			R	
	1	BOOL	63-PS-056-H	ALARM (DRYER 1) TOWER B PRESSURE SWITCH	0=ALARM, 1=OK			R	
	2	BOOL	63-PS-058-H	ALARM (DRYER 2) TOWER A PRESSURE SWITCH	0=ALARM, 1=OK			R	
	3	BOOL	63-PS-060-H	ALARM (DRYER 2) TOWER B PRESSURE SWITCH	0=ALARM, 1=OK			R	
	4	BOOL		SPARE				R	
	5	BOOL		SPARE				R	
	6	BOOL	63-CMPR-NO-RUN-FDBCK-001-H	COMPRESSOR 1 - NOT STARTED ALARM	0=ALARM, 1=OK			R	
	7	BOOL	63-CMPR-NO-RUN-FDBCK-002-H	COMPRESSOR 2 - NOT STARTED ALARM	0=ALARM, 1=OK			R	
1003	0	BOOL	63-CMPR-ALARM-FDBCK-001-H	COMPRESSOR 1 - GENERAL ALARM	0=ALARM, 1=OK			R	
	1	BOOL	63-CMPR-ALARM-FDBCK-002-H	COMPRESSOR 2 - GENERAL ALARM	0=ALARM, 1=OK			R	
	2	BOOL	63-20FS-12-H	SOURGE ARRESTER 230VAC_SERVICES - ALARM	0=ALARM, 1=OK			R	
	3	BOOL	63-21FS-12-H	SOURGE ARRESTER 230VAC_UPS - ALARM	0=ALARM, 1=OK			R	
	4	BOOL	63-TH-001-H	INTERNAL CABINET THERMOSTAT - ALARM	0=ALARM, 1=OK			R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1004	0	BOOL	DRYER_SWITCH	DRYER SWITCHING IN PROGRESS	1 = IN PROGRESS 0 = DONE			R	
	1	BOOL	STOP_REQUEST	STOP TAKEN WAITING UNTIL THE END OF PHASE 5	1 = IN PROGRESS 0 = DONE			R	
	2	BOOL		SPARE				R	
	3	BOOL		SPARE				R	
	4	BOOL		SPARE				R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1005	0	BOOL		SPARE				R	
	1	BOOL		SPARE				R	
	2	BOOL		SPARE				R	
	3	BOOL		SPARE				R	
	4	BOOL		SPARE				R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1006	0	BOOL	PRE_FIL_1-H	DIFFERENTIAL PRESSURE EXCEEDED FOR PRE FILTER 1	0=ALARM, 1=OK			R	
	1	BOOL	PRE_FIL_2-H	DIFFERENTIAL PRESSURE EXCEEDED FOR PRE FILTER 2	0=ALARM, 1=OK			R	
	2	BOOL	POST_FIL_1-H	DIFFERENTIAL PRESSURE EXCEEDED FOR POST FILTER 1	0=ALARM, 1=OK			R	
	3	BOOL	POST_FIL_2-H	DIFFERENTIAL PRESSURE EXCEEDED FOR POST FILTER 2	0=ALARM, 1=OK			R	
	4	BOOL	PRE_FIL-H	DIFFERENTIAL PRESSURE EXCEEDED FOR BOTH PRE FILTERS	0=ALARM, 1=OK			R	
	5	BOOL	POST_FIL-H	DIFFERENTIAL PRESSURE EXCEEDED FOR BOTH POST FILTERS	0=ALARM, 1=OK			R	
	6	BOOL	DRY-H	BOTH DRYERS WITH PRESSURE SWITCHES TRIGGERED	0=ALARM, 1=OK			R	
	7	BOOL	CMPR-H	BOTH COMPRESSOR ALARM	0=ALARM, 1=OK			R	
1007	0	BOOL	63-AIT-051-LL	DEW POINT TRANSMITTER - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	1	BOOL	63-AIT-051-L	DEW POINT TRANSMITTER - LOW ALARM (L)	0=ALARM, 1=OK			R	
	2	BOOL	63-AIT-051-H	DEW POINT TRANSMITTER - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	3	BOOL	63-AIT-051-HH	DEW POINT TRANSMITTER - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
	4	BOOL	63-PT-064-LL	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	5	BOOL	63-PT-064-L	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER - LOW ALARM (L)	0=ALARM, 1=OK			R	
	6	BOOL	63-PT-064-H	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	7	BOOL	63-PT-064-HH	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
1008	0	BOOL	63-TIT-051-LL	TEMPERATURE TRANSMITTER INLET AIR - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	1	BOOL	63-TIT-051-L	TEMPERATURE TRANSMITTER INLET AIR - LOW ALARM (L)	0=ALARM, 1=OK			R	
	2	BOOL	63-TIT-051-H	TEMPERATURE TRANSMITTER INLET AIR - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	3	BOOL	63-TIT-051-HH	TEMPERATURE TRANSMITTER INLET AIR - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
	4	BOOL	63-TIT-052-LL	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	5	BOOL	63-TIT-052-L	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER - LOW ALARM (L)	0=ALARM, 1=OK			R	
	6	BOOL	63-TIT-052-H	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	7	BOOL	63-TIT-052-HH	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
1009	0	BOOL	63-FIT-051-LL	FLOW TRANSMITTER OUTLET AIR - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	1	BOOL	63-FIT-051-L	FLOW TRANSMITTER OUTLET AIR - LOW ALARM (L)	0=ALARM, 1=OK			R	
	2	BOOL	63-FIT-051-H	FLOW TRANSMITTER OUTLET AIR - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	3	BOOL	63-FIT-051-HH	FLOW TRANSMITTER OUTLET AIR - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
	4	BOOL	63-PDIT-051-LL	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	5	BOOL	63-PDIT-051-L	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS - LOW ALARM (L)	0=ALARM, 1=OK			R	
	6	BOOL	63-PDIT-051-H	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	7	BOOL	63-PDIT-051-HH	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
1010	0	BOOL	63-PDIT-052-LL	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS - LOW LOW ALARM (LL)	0=ALARM, 1=OK			R	
	1	BOOL	63-PDIT-052-L	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS - LOW ALARM (L)	0=ALARM, 1=OK			R	
	2	BOOL	63-PDIT-052-H	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS - HIGH ALARM (H)	0=ALARM, 1=OK			R	
	3	BOOL	63-PDIT-052-HH	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS - HIGH HIGH ALARM (HH)	0=ALARM, 1=OK			R	
	4	BOOL		SPARE				R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1011	0	BOOL	63-AIT-051-BADPV	DEW POINT TRANSMITTER - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	1	BOOL	63-PT-064-BADPV	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	2	BOOL	63-TIT-051-BADPV	TEMPERATURE TRANSMITTER INLET AIR - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	3	BOOL	63-TIT-052-BADPV	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	4	BOOL	63-FIT-051-BADPV	FLOW TRANSMITTER OUTLET AIR - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	5	BOOL	63-PDIT-051-BADPV	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	6	BOOL	63-PDIT-052-BADPV	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS - BAD PROCESS VALUE	0=ALARM, 1=OK			R	
	7	BOOL		SPARE				R	PLANT STATUS
1012	0	BOOL	63-ESD-SIS-001-H	PLANT SHUTDOWN ALARM (SIS)	0=SHUTDOWN ALARM, 1=OK			R	
	1	BOOL	63-ALARM-PLANT	PLANT GENERAL ALARM	0=CUMULATIVE STANDARD ALARM, 1=OK			R	
	2	BOOL	63-PLANT-READY	PLANT READY	0=NOT READY, 1=READY TO START			R	
	3	BOOL	63-PLANT-RUNNING	PLANT RUNNING	0=STOPPED, 1=RUNNING			R	
	4	BOOL	63-PLANT-LOCA-REM	PLANT IN REMOTE MODE	0=LOCAL (PLC), 1=REMOTE (DCS)			R	
	5	BOOL	63-ALARM-DRY-001-DCS	DRYER 1 ALARM	0=ALARM, 1=OK			R	
	6	BOOL	63-ALARM-DRY-002-DCS	DRYER 2 ALARM	0=ALARM, 1=OK			R	
	7	BOOL		SPARE				R	
1013	0	BOOL	63-CMPR-START-001-DCS	COMPRESSOR 1 COMMAND	1=RUN COMMAND (ONLY FOR INFO)			R	
	1	BOOL	63-CMPR-START-002-DCS	COMPRESSOR 2 COMMAND	1=RUN COMMAND (ONLY FOR INFO)			R	
	2	BOOL		SPARE				R	
	3	BOOL		SPARE				R	
	4	BOOL	63-CMPR-RUN-FDBCK-001-DCS	COMPRESSOR 1 RUNNING	1=RUNNING STATUS RECEIVED			R	
	5	BOOL	63-CMPR-RUN-FDBCK-002-DCS	COMPRESSOR 2 RUNNING	1=RUNNING STATUS RECEIVED			R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1014	0	BOOL	63-XY-051-DCS	(DRYER 1) 5-WAY VALVE SOV OPEN COMMAND	1=OPEN COMMAND			R	
	1	BOOL	63-XY-052-DCS	(DRYER 1) DEPRESSURIZATION VALVE SOV OPEN COMMAND	1=OPEN COMMAND			R	
	2	BOOL	63-XY-053-DCS	(DRYER 2) 5-WAY VALVE SOV OPEN COMMAND	1=OPEN COMMAND			R	
	3	BOOL	63-XY-054-DCS	(DRYER 2) DEPRESSURIZATION VALVE SOV OPEN COMMAND	1=OPEN COMMAND			R	
	4	BOOL		SPARE				R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
	0	BOOL	63-XY-055	VALVE 63-XY-055 COMMAND	1 = COMMAND			R	

1015	1	BOOL	63-XY-056	VALVE 63-XY-056 COMMAND	1 = COMMAND			R	
	2	BOOL	63-XY-057	VALVE 63-XY-057 COMMAND	1 = COMMAND			R	
	3	BOOL	63-XY-058	VALVE 63-XY-058 COMMAND	1 = COMMAND			R	
	4	BOOL	63-XY-059	VALVE 63-XY-059 COMMAND	1 = COMMAND			R	
	5	BOOL	63-XY-060	VALVE 63-XY-060 COMMAND	1 = COMMAND			R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1016	0	BOOL	63-ZSH-055-DCS	VALVE 63-XY-055 OPEN	1 = OPEN			R	
	1	BOOL	63-ZSL-055-DCS	VALVE 63-XY-055 CLOSED	1 = CLOSED			R	
	2	BOOL	63-ZSH-056-DCS	VALVE 63-XY-056 OPEN	1 = OPEN			R	
	3	BOOL	63-ZSL-056-DCS	VALVE 63-XY-056 CLOSED	1 = CLOSED			R	
	4	BOOL	63-ZSH-057-DCS	VALVE 63-XY-057 OPEN	1 = OPEN			R	
	5	BOOL	63-ZSL-057-DCS	VALVE 63-XY-057 CLOSED	1 = CLOSED			R	
	6	BOOL	63-ZSH-058-DCS	VALVE 63-XY-058 OPEN	1 = OPEN			R	
	7	BOOL	63-ZSL-058-DCS	VALVE 63-XY-058 CLOSED	1 = CLOSED			R	
1017	0	BOOL	63-ZSH-059-DCS	VALVE 63-XY-059 OPEN	1 = OPEN			R	
	1	BOOL	63-ZSL-059-DCS	VALVE 63-XY-059 CLOSED	1 = CLOSED			R	
	2	BOOL	63-ZSH-060-DCS	VALVE 63-XY-060 OPEN	1 = OPEN			R	
	3	BOOL	63-ZSL-060-DCS	VALVE 63-XY-060 CLOSED	1 = CLOSED			R	
	4	BOOL		SPARE				R	
	5	BOOL		SPARE				R	
	6	BOOL		SPARE				R	
	7	BOOL		SPARE				R	
1018	/	REAL (IEEE 754)	63-AIT-051-PV	DEW POINT TRANSMITTER - PROCESS VALUE	range -100..20 °C			R	**MEASURES**
1022	/	REAL (IEEE 754)	63-PT-064-PV	PRESSURE TRANSMITTER INSTRUMENT AIR RECIEVER - PROCESS VALUE	range 0..16 barg			R	
1026	/	REAL (IEEE 754)	63-TIT-051-PV	TEMPERATURE TRANSMITTER INLET AIR - PROCESS VALUE	range 0..100 °C			R	
1030	/	REAL (IEEE 754)	63-TIT-052-PV	TEMPERATURE TRANSMITTER INSTRUMENT AIR RECIEVER - PROCESS VALUE	range 0..100 °C			R	
1034	/	REAL (IEEE 754)	63-FIT-051-PV	FLOW TRANSMITTER OUTLET AIR - PROCESS VALUE	range 0..500 Sm3/h			R	
1038	/	REAL (IEEE 754)	63-PDIT-051-PV	DIFFERENTIAL PRESSURE TRANSMITTER INLET FILTERS - PROCESS VALUE	range 0..1 bar			R	
1042	/	REAL (IEEE 754)	63-PDIT-052-PV	DIFFERENTIAL PRESSURE TRANSMITTER OUTLET FILTERS - PROCESS VALUE	range 0..1 bar			R	
1046	/	REAL (IEEE 754)	WATCHDOG_REAL	WATCHDOG_TO CHECK COMMUNICATION	INCREMENTED by 1 every second from 0 up to 32767			R	
1050	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 001				R	**PARAMETERS**
1054	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 002				R	
1058	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 003				R	
1062	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 004				R	
1066	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 005				R	
1070	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 006				R	
1074	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 007				R	
1078	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 008				R	
1082	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 009				R	
1086	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 010				R	
1090	/	INT	PRE_FILTER_IN_USE	PRE FILTER CURRENTLY IN USE (1= A , 2 = B)	(1= A , 2 = B)			R	
1092	/	INT	POST_FILTER_IN_USE	PRE FILTER CURRENTLY IN USE (1= A , 2 = B)	(1= A , 2 = B)			R	
1094	/	INT	DRYER_IN_USE	PRE FILTER CURRENTLY IN USE (1= A , 2 = B)	(1= A , 2 = B)			R	
1096	/	INT	COMPRESSOR_USE	PRE FILTER CURRENTLY IN USE (1= A , 2 = B)	(1= A , 2 = B)			R	
1098	/	INT	CURRENT_PHASE	CURRENT PHASE OF PROCESS (0,...,6)	0 = READY TO START ; 1 = INIZIALIZATION, 2 = A: ADS, B: REG ; 3 = A: ADS ,B:PRE ; 4 = A:REG, B:ADS ; 5 = A:PRE, B:ADS ; 6 = FAULT			R	
1100	/	INT		SPARE - INTEGER PARAMETER 001				R	
1102	/	INT	WATCHDOG_INT	WATCHDOG_TO CHECK COMMUNICATION	INCREMENTED by 1 every second from 0 up to 32767			R	
1104	/	INT		SPARE - INTEGER PARAMETER 002				R	
1106	/	INT		SPARE - INTEGER PARAMETER 003				R	
1108	/	INT		SPARE - INTEGER PARAMETER 004				R	
1110	/	TIME (DINT)		SPARE - TIME PARAMETER 001				R	
1114	/	TIME (DINT)		SPARE - TIME PARAMETER 002				R	
1118	/	TIME (DINT)		SPARE - TIME PARAMETER 003				R	
1122	/	TIME (DINT)		SPARE - TIME PARAMETER 004				R	
1126	/	TIME (DINT)		SPARE - TIME PARAMETER 005				R	
1130	/	TIME (DINT)		SPARE - TIME PARAMETER 006				R	
1134	/	TIME (DINT)		SPARE - TIME PARAMETER 007				R	
1138	/	TIME (DINT)		SPARE - TIME PARAMETER 008				R	
1142	/	TIME (DINT)		SPARE - TIME PARAMETER 009				R	
1146	/	TIME (DINT)		SPARE - TIME PARAMETER 010				R	

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PROFINET SIGNALS TABLE

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N. BYTE	N. BIT	DATA TYPE	TAG	DESCRIPTION	MEANING	SCALING	OFFSET	READ/WRITE	
	0	BOOL	63-START-PLANT-CMD	REMOTE START COMMAND	1 = START			W	**REMOTE COMMANDS**
	1	BOOL	63-STOP-PLANT-CMD	REMOTE STOP COMMAND	0 = STOP			W	
	2	BOOL	WATCHDOG_BIT	WATCHDOG TO VERIFY CONNECTION STATUS	1= ALWAYS AS OK CONDITION 0= FAULT			W	
	3	BOOL	63-ACK-ALARM	REMOTE ALARMS ACKNOWLEDGE (PULSE 1 SEC)	1 = ACK (PULSE 1 sec)			W	
	4	BOOL	CHANGE_COMPRESSOR	CHANGE WORKING COMPRESSOR (PULSE 1 SEC)	1 = CHANGE (PULSE 1 sec)			W	
	5	BOOL	CHANGE_PRE_FILTER	CHANGE WORKING PRE-FILTER (PULSE 1 SEC)	1 = CHANGE (PULSE 1 sec)			W	
	6	BOOL	CHANGE_POST_FILTER	CHANGE WORKING POST-FILTER(PULSE 1 SEC)	1 = CHANGE (PULSE 1 sec)			W	
1150	7	BOOL	CHANGE_DRYER	CHANGE WORKING DRYER (PULSE 1 SEC)	1 = CHANGE (PULSE 1 sec)			W	
	0	BOOL		SPARE				W	
	1	BOOL		SPARE				W	
	2	BOOL		SPARE				W	
	3	BOOL		SPARE				W	
	4	BOOL		SPARE				W	
	5	BOOL		SPARE				W	
	6	BOOL		SPARE				W	
1151	7	BOOL		SPARE				W	
1152	/	REAL		SPARE - REAL PARAMETER 001				W	**PARAMETERS**
1156	/	REAL		SPARE - REAL PARAMETER 002				W	
1160	/	REAL		SPARE - REAL PARAMETER 003				W	
1164	/	REAL		SPARE - REAL PARAMETER 004				W	
1168	/	REAL		SPARE - REAL PARAMETER 005				W	
1172	/	REAL		SPARE - REAL PARAMETER 006				W	
1176	/	REAL		SPARE - REAL PARAMETER 007				W	
1180	/	REAL		SPARE - REAL PARAMETER 008				W	
1184	/	REAL		SPARE - REAL PARAMETER 009				W	
1188	/	REAL		SPARE - REAL PARAMETER 010				W	
1192	/	INT	PHASE_DURATION_2	SET TIME DURATION PHASE 2	[s] NOT LOWER THAN 240 S			W	
1194	/	INT	PHASE_DURATION_3	SET TIME DURATION PHASE 3	[s] NOT LOWER THAN 60 S			W	
1196	/	INT	PHASE_DURATION_4	SET TIME DURATION PHASE 4	[s] NOT LOWER THAN 240 S			W	
1198	/	INT	PHASE_DURATION_5	SET TIME DURATION PHASE 5	[s] NOT LOWER THAN 60 S			W	
1200	/	INT		SPARE - INTEGER PARAMETER 001				W	
1202	/	INT		SPARE - INTEGER PARAMETER 002				W	
1204	/	INT		SPARE - INTEGER PARAMETER 003				W	
1206	/	INT		SPARE - INTEGER PARAMETER 004				W	
1208	/	INT		SPARE - INTEGER PARAMETER 005				W	
1210	/	INT		SPARE - INTEGER PARAMETER 006				W	
1212	/	TIME (DINT)		SPARE - TIME PARAMETER 001				W	
1216	/	TIME (DINT)		SPARE - TIME PARAMETER 002				W	
1220	/	TIME (DINT)		SPARE - TIME PARAMETER 003				W	
1224	/	TIME (DINT)		SPARE - TIME PARAMETER 004				W	
1228	/	TIME (DINT)		SPARE - TIME PARAMETER 005				W	
1232	/	TIME (DINT)		SPARE - TIME PARAMETER 006				W	
1236	/	TIME (DINT)		SPARE - TIME PARAMETER 007				W	
1240	/	TIME (DINT)		SPARE - TIME PARAMETER 008				W	
1244	/	TIME (DINT)		SPARE - TIME PARAMETER 010				W	