Base Load Power Hub (BLPH)

INSTRUMENT AIR PACKAGE

I/O LIST

Document Number: 1724000428-IN-LIS-00016

Document Class: 2

03	24/01/2025	Issue for Review (IFR)	GT	MC	TM
02	03/07/2024	Issue for Review (IFR)	GT	MC	TM
01	01/07/2024	Issue for Review (IFR)	GT	MC	TM
00	30/04/2024	Issue for Review (IFR)	GT	MC	TM
Rev.	Date	Description	Prepared	Reviewed	Approved

COES

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

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	11/09/2024	FOR APPROVAL	RM	RM	RM
0.1	01/07/2024	FOR APPROVAL	RM	RM	RM
0.0	21/04/2024	FOR APPROVAL	RM	RM	RM

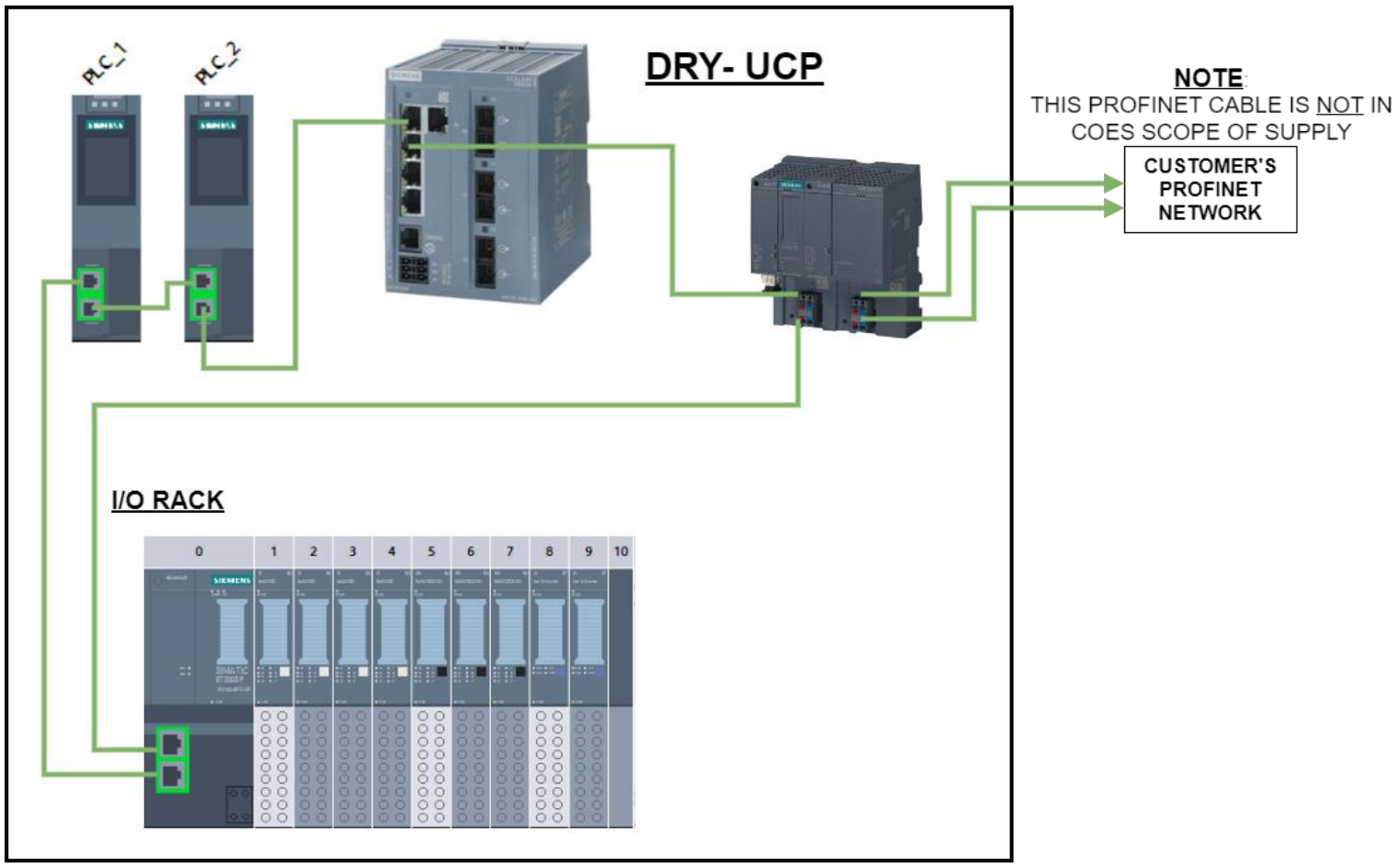
HARDWARE CONFIGURATION

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	SPARE		
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 3

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	
	0	BOOL	63-XY-051-DCS	(DRYER 1) 5-WAY VALVE SOV OPEN COMMAND	1=OPEN COMMAND			R	

1014	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	
1015	0	BOOL	63-XY-055	VALVE 63-XY-055 COMMAND	1 = COMMAND			R	
	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)		SPARE - REAL PARAMETER 001				R	
1050	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 002				R	**PARAMETERS**
1054	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 003				R	
1058	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 004				R	
1062	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 005				R	
1066	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 006				R	
1070	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 007				R	
1074	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 008				R	
1078	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 009				R	
1082	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 010				R	
1086	/	REAL (IEEE 754)		SPARE - REAL PARAMETER 011				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		SPARE - INTEGER PARAMETER 002				R	
1104	/	INT		SPARE - INTEGER PARAMETER 003				R	
1106	/	INT		SPARE - INTEGER PARAMETER 004				R	
1108	/	INT		SPARE - INTEGER PARAMETER 005				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	

IA A-63000

PROFINET SIGNALS TABLE

Rev 3

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	