Deep Sky
Alpha DAC
Innisfail, Alberta

List
I/O List

BBA Document No. / Rev. 7990007-000000-48-ELI-0003 / R00
February 7, 2025

For Construction

Client Project No. 7990

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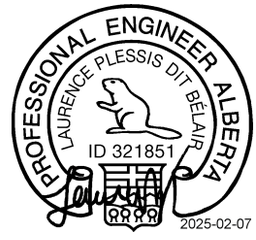
PERMIT TO PRACTICE
BBA ENGINEERING LTD.
RM SIGNATURE:
RM APEGA ID #: 177594
DATE: 2025-02-07
PERMIT NUMBER: P014425
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)



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Alpha DAC
List
I/O list

REVISION HISTORY

Revision	Document Status - Revision Description	Date
R00	For Construction	2025-02-07

Analog I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	PCP-1000	PLC-1000	AI (8ch)	00	11	00	R00S11	INT	R00S11C00	Liquid CO2	FIT_2101_FLOW	FIT-2101	LIQUID CO2 FLOW TO STORAGE TK-2601	4-20ma	0	2200000	kg/h					
00	PCP-1000	PLC-1000	AI (8ch)	00	11	01	R00S11	INT	R00S11C01	Liquid CO2	FIT_2101_DENS	FIT-2101	LIQUID CO2 DENSITY TO STORAGE TK-2601	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	11	02	R00S11	INT	R00S11C02	Liquid CO2	FIT_2102_FLOW	FIT-2102	LIQUID CO2 FLOW FROM TK-2101 TO VAN	4-20ma	0	2200000	kg/h					
00	PCP-1000	PLC-1000	AI (8ch)	00	11	03	R00S11	INT	R00S11C03	Liquid CO2	FIT_2102_DENS	FIT-2102	LIQUID CO2 DENSITY FROM TK-2101 TO VAN	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	11	04	R00S11	INT	R00S11C04	TK-3101	LT_3101	LT-3101	TK-3101 LEVEL	4-20ma	0	2	m					
00	PCP-1000	PLC-1000	AI (8ch)	00	11	05	R00S11	INT	R00S11C05	TK-3101	FIT_3101	FIT-3101	TK-3101 INPUT WATER FLOW	4-20ma	0	9600	m^3					
00	PCP-1000	PLC-1000	AI (8ch)	00	11	06	R00S11	INT	R00S11C06	RO water	LT_3102	LT-3102	TK-3102 LEVEL	4-20ma	0	3.6	m					
00	PCP-1000	PLC-1000	AI (8ch)	00	11	07	R00S11	INT	R00S11C07	PP-2101	TT_2102	TT-2102	LIQUID CO2 TEMPERATURE FROM TK-2101 TO VAN	4-20ma	-200	600	°c					
00	PCP-1000	PLC-1000	AI (8ch)	00	12	00	R00S12	INT	R00S12C00	CO2 header	PIT_2001	PIT-2001	CO2 HEADER PRESSURE	4-20ma	0	0.01	barg					
00	PCP-1000	PLC-1000	AI (8ch)	00	12	01	R00S12	INT	R00S12C01	Cooling return	PIT_3302	PIT-3302	COOLING RETURN PRESSURE	4-20ma	0	60	barg					
00	PCP-1000	PLC-1000	AI (8ch)	00	12	02	R00S12	INT	R00S12C02													
00	PCP-1000	PLC-1000	AI (8ch)	00	12	03	R00S12	INT	R00S12C03													
00	PCP-1000	PLC-1000	AI (8ch)	00	12	04	R00S12	INT	R00S12C04	TK-5101	LT_5101	LT-5101	TK-5101 LEVEL	4-20ma	0	2.2	m					
00	PCP-1000	PLC-1000	AI (8ch)	00	12	05	R00S12	INT	R00S12C05	TK-5102	LT_5102	LT-5102	TK-5102 LEVEL	4-20ma	0	2.2	m					
00	PCP-1000	PLC-1000	AI (8ch)	00	12	06	R00S12	INT	R00S12C06				SPARE AI									
00	PCP-1000	PLC-1000	AI (8ch)	00	12	07	R00S12	INT	R00S12C07				SPARE AI									
00	PCP-1000	PLC-1000	AI (8ch)	00	13	00	R00S13	INT	R00S13C00	Ambient air	AIT_2002A	AIT-2002A	INDOOR CO2 ANALYZER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	13	01	R00S13	INT	R00S13C01	Ambient air	AIT_2002B	AIT-2002B	INDOOR CO2 ANALYZER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	13	02	R00S13	INT	R00S13C02	Ambient air	AIT_2002C	AIT-2002C	INDOOR CO2 ANALYZER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	13	03	R00S13	INT	R00S13C03	Ambient air	AIT_2002D	AIT-2002D	INDOOR CO2 ANALYZER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	13	04	R00S13	INT	R00S13C04	PP-3301	PIT_3303	PIT-3303	PP-3301 DISCHARGE PRESSURE	4-20ma	0	60	barg					
00	PCP-1000	PLC-1000	AI (8ch)	00	13	05	R00S13	INT	R00S13C05	Ambient air	AIT_2002E	AIT-2002E	INDOOR CO2 ANALYZER	4-20ma								

Analog I/O																					
Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	PCP-1000	PLC-1000	AI (8ch)	00	13	06	R00S13	INT	R00S13C06	RO water	FIT_3103A	FIT-3103A	RO WATER RECIRC A FLOW	4-20ma	0	9600	m^3/h					
00	PCP-1000	PLC-1000	AI (8ch)	00	13	07	R00S13	INT	R00S13C07	RO water	FIT_3103B	FIT-3103B	RO WATER RECIRC B FLOW	4-20ma	0	9600	m^3/h					
00	PCP-1000	PLC-1000	AI (8ch)	00	14	00	R00S14	INT	R00S14C00													
00	PCP-1000	PLC-1000	AI (8ch)	00	14	01	R00S14	INT	R00S14C01	CO2 header	AIT_2001	AIT-2001	GAS ANALYSER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	14	02	R00S14	INT	R00S14C02	Liquid CO2	PIT_2102	PIT-2102	LIQUID CO2 FROM TK-2601 TO VAN	4-20ma	0	400	barg					
00	PCP-1000	PLC-1000	AI (8ch)	00	14	03	R00S14	INT	R00S14C03													
00	PCP-1000	PLC-1000	AI (8ch)	00	14	04	R00S14	INT	R00S14C04	TK-2002	LIT_2003	LIT-2003	TK-2002 LEVEL	4-20ma	0	0.65	m		0.01	0.3		
00	PCP-1000	PLC-1000	AI (8ch)	00	14	05	R00S14	INT	R00S14C05	Ambient air	AIT_2006A	AIT-2006A	INDOOR LEL ANALZER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	14	06	R00S14	INT	R00S14C06	Ambient air	AIT_2006B	AIT-2006B	INDOOR LEL ANALZER	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	14	07	R00S14	INT	R00S14C07													
00	PCP-1000	PLC-1000	AI (8ch)	00	15	00	R00S15	INT	R00S15C00	Cooling supply	FIT_2021	FIT-2021	COOLING SUPPLY FLOW FROM HX-3301 TO PM-2005.	4-20ma	0	28900	kg/h					
00	PCP-1000	PLC-1000	AI (8ch)	00	15	01	R00S15	INT	R00S15C01	Municipal water	FIT_3001	FIT-3001	MUNICIPAL WATER FLOW	4-20ma	0	9600	m^3/h					
00	PCP-1000	PLC-1000	AI (8ch)	00	15	02	R00S15	INT	R00S15C02													
00	PCP-1000	PLC-1000	AI (8ch)	00	15	03	R00S15	INT	R00S15C03	TK-2101	PIT_2101	PIT-2101	TK-2101 PRESSURE	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	15	04	R00S15	INT	R00S15C04	TK-2101	LT_2101	LT-2101	TK-2101 LEVEL	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	15	05	R00S15	INT	R00S15C05	Ambient air	AIT_4001	AIT-4001	CO2 AMBIENT DETECTOR	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	15	06	R00S15	INT	R00S15C06	PM-2002	PM_2002_PH1	PM-2002	PH ADJUSTEMENT SKIP: PM-2002 PH 1	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	15	07	R00S15	INT	R00S15C07	PM-2002	PM_2002_PH2	PM-2002	PH ADJUSTEMENT SKIP: PM-2002 PH 2	4-20ma								
00	PCP-1000	PLC-1000	AI (8ch)	00	16	00	R00S16	INT	R00S16C00													
00	PCP-1000	PLC-1000	AI (8ch)	00	16	01	R00S16	INT	R00S16C01													
00	PCP-1000	PLC-1000	AI (8ch)	00	16	02	R00S16	INT	R00S16C02													
00	PCP-1000	PLC-1000	AI (8ch)	00	16	03	R00S16	INT	R00S16C03													

Analog I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	PCP-1000	PLC-1000	AI (8ch)	00	16	04	R00S16	INT	R00S16C04													
00	PCP-1000	PLC-1000	AI (8ch)	00	16	05	R00S16	INT	R00S16C05													
00	PCP-1000	PLC-1000	AI (8ch)	00	16	06	R00S16	INT	R00S16C06													
00	PCP-1000	PLC-1000	AI (8ch)	00	16	07	R00S16	INT	R00S16C07													
00	PCP-1000	PLC-1000	AO (8ch)	00	17	00	R00S17	INT	R00S17C00	HX-3301	HX_3301_REF	HX-3301	AIR COOLER HX-3301: VFD SPEED COMMAND	4-20ma								
00	PCP-1000	PLC-1000	AO (8ch)	00	17	01	R00S17	INT	R00S17C01													
00	PCP-1000	PLC-1000	AO (8ch)	00	17	02	R00S17	INT	R00S17C02	PM-2005	PM_2005_TANK_LEVEL	PM-2005	PM-2005: TANK-2101 LEVEL (LT-2101)	4-20ma								
00	PCP-1000	PLC-1000	AO (8ch)	00	17	03	R00S17	INT	R00S17C03													
00	PCP-1000	PLC-1000	AO (8ch)	00	17	04	R00S17	INT	R00S17C04													
00	PCP-1000	PLC-1000	AO (8ch)	00	17	05	R00S17	INT	R00S17C05	RO water	FV_3103A	FV-3103A	VALVE FV_3103A: COMMAND	4-20ma								
00	PCP-1000	PLC-1000	AO (8ch)	00	17	06	R00S17	INT	R00S17C06	RO water	FV_3103B	FV-3103B	VALVE FV_3103B: COMMAND	4-20ma								
00	PCP-1000	PLC-1000	AO (8ch)	00	17	07	R00S17	INT	R00S17C07													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	00	R00S18	INT	R00S18C00													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	01	R00S18	INT	R00S18C01													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	02	R00S18	INT	R00S18C02													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	03	R00S18	INT	R00S18C03													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	04	R00S18	INT	R00S18C04													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	05	R00S18	INT	R00S18C05													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	06	R00S18	INT	R00S18C06													
00	PCP-1000	PLC-1000	AO (8ch)	00	18	07	R00S18	INT	R00S18C07													
00	RCP-1001	RIO-1001	AI (8ch)	00	06	00	R00S06	INT	R00S06C00	TK-1001	LT_1018	LT-1018	TK-1001 LEVEL	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	06	01	R00S06	INT	R00S06C01	TK-1002	LT_1028	LT-1028	TK-1002 LEVEL	4-20ma								

Analog I/O																					
Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	RCP-1001	RIO-1001	AI (8ch)	00	06	02	R00S06	INT	R00S06C02	TK-1009	LT_1098	LT-1098	TK-1009 LEVEL	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	06	03	R00S06	INT	R00S06C03	PM-1010	FIT_1103	FIT-1103	PM-1010 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	06	04	R00S06	INT	R00S06C04	PM-1010	PIT_1101	PIT-1101	PM-1010 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	06	05	R00S06	INT	R00S06C05	PM-1010	TT_1101	TT-1101	PM-1010 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	06	06	R00S06	INT	R00S06C06	PM-1010	FIT_1101	FIT-1101	PM-1010 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	06	07	R00S06	INT	R00S06C07													
00	RCP-1001	RIO-1001	AI (8ch)	00	07	00	R00S07	INT	R00S07C00	PM-1001	FIT_1011	FIT-1011	PM-1001 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	01	R00S07	INT	R00S07C01	PM-1001	FIT_1015	FIT-1015	PM-1001 INLET RO WATER FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	02	R00S07	INT	R00S07C02	PM-1001	PIT_1011	PIT-1011	PM-1001 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	03	R00S07	INT	R00S07C03	TK-1001	AIT_1017_PH	AIT-1017	TK-1001: PH	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	04	R00S07	INT	R00S07C04	TK-1001	AIT_1017_COND	AIT-1017	TK-1001: CONDUCTIVITY	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	05	R00S07	INT	R00S07C05	PM-1002	FIT_1021	FIT-1021	PM-1002 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	06	R00S07	INT	R00S07C06	PM-1002	FIT_1023	FIT-1023	PM-1002 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	07	07	R00S07	INT	R00S07C07	PM-1002	FIT_1025	FIT-1025	PM-1002 INLET RO WATER FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	00	R00S08	INT	R00S08C00	PM-1002	PIT_1021	PIT-1021	PM-1002 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	01	R00S08	INT	R00S08C01	PM-1002	TT_1021	TT-1021	PM-1002 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	02	R00S08	INT	R00S08C02	TK-1002	AIT_1027_PH	AIT-1027	TK-1002: PH	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	03	R00S08	INT	R00S08C03	TK-1002	AIT_1027_COND	AIT-1027	TK-1002: CONDUCTIVITY	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	04	R00S08	INT	R00S08C04	PM-1005	FIT_1051	FIT-1051	PM-1005 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	05	R00S08	INT	R00S08C05	PM-1005	FIT_1053	FIT-1053	PM-1005 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	06	R00S08	INT	R00S08C06	PM-1005	FIT_1055	FIT-1055	PM-1005 INLET RO WATER FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	08	07	R00S08	INT	R00S08C07	PM-1005	PIT_1051	PIT-1051	PM-1005 OUTLET CO2 GAS PRESSURE	4-20ma								

Analog I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	RCP-1001	RIO-1001	AI (8ch)	00	09	00	R00S09	INT	R00S09C00	PM-1005	TT_1051	TT-1051	PM-1005 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	09	01	R00S09	INT	R00S09C01	PM-1007	FIT_1071	FIT-1071	PM-1007 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	09	02	R00S09	INT	R00S09C02	PM-1007	FIT_1073	FIT-1073	PM-1007 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	09	03	R00S09	INT	R00S09C03	PM-1007	FIT_1075	FIT-1075	PM-1007 INLET RO WATER FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	09	04	R00S09	INT	R00S09C04	PM-1007	PIT_1071	PIT-1071	PM-1007 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	09	05	R00S09	INT	R00S09C05	PM-1007	TT_1071	TT-1071	PM-1007 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	09	06	R00S09	INT	R00S09C06													
00	RCP-1001	RIO-1001	AI (8ch)	00	09	07	R00S09	INT	R00S09C07													
00	RCP-1001	RIO-1001	AI (8ch)	00	10	00	R00S10	INT	R00S10C00	PM-1009	FIT_1091	FIT-1091	PM-1009 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	01	R00S10	INT	R00S10C01	PM-1009	FIT_1093	FIT-1093	PM-1009 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	02	R00S10	INT	R00S10C02	PM-1009	FIT_1095	FIT-1095	PM-1009 INLET RO WATER FLOW	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	03	R00S10	INT	R00S10C03	PM-1009	PIT_1091	PIT-1091	PM-1009 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	04	R00S10	INT	R00S10C04	PM-1009	TT_1091	TT-1091	PM-1009 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	05	R00S10	INT	R00S10C05	TK-1009	AIT_1097_PH	AIT-1097	TK-1009: PH	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	06	R00S10	INT	R00S10C06	TK-1009	AIT_1097_COND	AIT-1097	TK-1009: CONDUCTIVITY	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	10	07	R00S10	INT	R00S10C07	PM-1001	TT_1011	TT-1011	PM-1001 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1001	RIO-1001	AI (8ch)	00	11	00	R00S11	INT	R00S11C00													
00	RCP-1001	RIO-1001	AI (8ch)	00	11	01	R00S11	INT	R00S11C01													
00	RCP-1001	RIO-1001	AI (8ch)	00	11	02	R00S11	INT	R00S11C02													
00	RCP-1001	RIO-1001	AI (8ch)	00	11	03	R00S11	INT	R00S11C03													
00	RCP-1001	RIO-1001	AI (8ch)	00	11	04	R00S11	INT	R00S11C04													
00	RCP-1001	RIO-1001	AI (8ch)	00	11	05	R00S11	INT	R00S11C05													

Analog I/O																					
Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	RCP-1001	RIO-1001	AI (8ch)	00	11	06	R00S11	INT	R00S11C06													
00	RCP-1001	RIO-1001	AI (8ch)	00	11	07	R00S11	INT	R00S11C07													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	00	R00S12	INT	R00S12C00													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	01	R00S12	INT	R00S12C01													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	02	R00S12	INT	R00S12C02													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	03	R00S12	INT	R00S12C03													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	04	R00S12	INT	R00S12C04													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	05	R00S12	INT	R00S12C05													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	06	R00S12	INT	R00S12C06													
00	RCP-1001	RIO-1001	AO (8ch)	00	12	07	R00S12	INT	R00S12C07													
00	RCP-1002	RIO-1002	AI (8ch)	00	03	00	R00S03	INT	R00S03C00	PM-1003	FIT_1031	FIT-1031	PM-1003 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	03	01	R00S03	INT	R00S03C01	PM-1003	FIT_1033	FIT-1033	PM-1003 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	03	02	R00S03	INT	R00S03C02	PM-1003	FIT_1035	FIT-1035	PM-1003 INLET RO WATER FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	03	03	R00S03	INT	R00S03C03	PM-1003	PIT_1031	PIT-1031	PM-1003 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	03	04	R00S03	INT	R00S03C04	PM-1003	TT_1031	TT-1031	PM-1003 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	03	05	R00S03	INT	R00S03C05													
00	RCP-1002	RIO-1002	AI (8ch)	00	03	06	R00S03	INT	R00S03C06													
00	RCP-1002	RIO-1002	AI (8ch)	00	03	07	R00S03	INT	R00S03C07													
00	RCP-1002	RIO-1002	AI (8ch)	00	04	00	R00S04	INT	R00S04C00	PM-1004	FIT_1041	FIT-1041	PM-1004 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	04	01	R00S04	INT	R00S04C01	PM-1004	FIT_1043	FIT-1043	PM-1004 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	04	02	R00S04	INT	R00S04C02	PM-1004	PIT_1041	PIT-1041	PM-1004 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	04	03	R00S04	INT	R00S04C03	PM-1004	TT_1041	TT-1041	PM-1004 OUTLET CO2 GAS TEMPERATURE	4-20ma								

Analog I/O																					
Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	RCP-1002	RIO-1002	AI (8ch)	00	04	04	R00S04	INT	R00S04C04													
00	RCP-1002	RIO-1002	AI (8ch)	00	04	05	R00S04	INT	R00S04C05													
00	RCP-1002	RIO-1002	AI (8ch)	00	04	06	R00S04	INT	R00S04C06													
00	RCP-1002	RIO-1002	AI (8ch)	00	04	07	R00S04	INT	R00S04C07													
00	RCP-1002	RIO-1002	AI (8ch)	00	05	00	R00S05	INT	R00S05C00	PM-1006	FIT_1061	FIT-1061	PM-1006 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	05	01	R00S05	INT	R00S05C01	PM-1006	FIT_1063	FIT-1063	PM-1006 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	05	02	R00S05	INT	R00S05C02	PM-1006	PIT_1061	PIT-1061	PM-1006 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	05	03	R00S05	INT	R00S05C03	PM-1006	TT_1061	TT-1061	PM-1006 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	05	04	R00S05	INT	R00S05C04													
00	RCP-1002	RIO-1002	AI (8ch)	00	05	05	R00S05	INT	R00S05C05													
00	RCP-1002	RIO-1002	AI (8ch)	00	05	06	R00S05	INT	R00S05C06													
00	RCP-1002	RIO-1002	AI (8ch)	00	05	07	R00S05	INT	R00S05C07													
00	RCP-1002	RIO-1002	AI (8ch)	00	06	00	R00S06	INT	R00S06C00	PM-1008	FIT_1081	FIT-1081	PM-1008 OUTLET CO2 GAS FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	06	01	R00S06	INT	R00S06C01	PM-1008	FIT_1083	FIT-1083	PM-1008 OUTLET CLEAN WATER (ACIDIC) FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	06	02	R00S06	INT	R00S06C02	PM-1008	FIT_1085	FIT-1085	PM-1008 INLET RO WATER FLOW	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	06	03	R00S06	INT	R00S06C03	PM-1008	PIT_1081	PIT-1081	PM-1008 OUTLET CO2 GAS PRESSURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	06	04	R00S06	INT	R00S06C04	PM-1008	TT_1081	TT-1081	PM-1008 OUTLET CO2 GAS TEMPERATURE	4-20ma								
00	RCP-1002	RIO-1002	AI (8ch)	00	06	05	R00S06	INT	R00S06C05													
00	RCP-1002	RIO-1002	AI (8ch)	00	06	06	R00S06	INT	R00S06C06													
00	RCP-1002	RIO-1002	AI (8ch)	00	06	07	R00S06	INT	R00S06C07													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	00	R00S07	INT	R00S07C00													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	01	R00S07	INT	R00S07C01													

Analog I/O																					
Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Signal	Signal Range		ENG. UNITS	Alarms				
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.								MIN	MAX		LL	L	H	HH	Delay (s)
00	RCP-1002	RIO-1002	AI (8ch)	00	07	02	R00S07	INT	R00S07C02													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	03	R00S07	INT	R00S07C03													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	04	R00S07	INT	R00S07C04													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	05	R00S07	INT	R00S07C05													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	06	R00S07	INT	R00S07C06													
00	RCP-1002	RIO-1002	AI (8ch)	00	07	07	R00S07	INT	R00S07C07													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	00	R00S08	INT	R00S08C00													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	01	R00S08	INT	R00S08C01													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	02	R00S08	INT	R00S08C02													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	03	R00S08	INT	R00S08C03													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	04	R00S08	INT	R00S08C04													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	05	R00S08	INT	R00S08C05													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	06	R00S08	INT	R00S08C06													
00	RCP-1002	RIO-1002	AO (8ch)	00	08	07	R00S08	INT	R00S08C07													

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	COMM	00	01	Port 1	R00S01	SERIAL	R00S01CPort 1	AIT-2001	AIT_2001	AIT-2001	Spectrometer CO2 Gas analyser	Spectrometer CO2 Gas analyser	Comm		
00	PCP-1000	PLC-1000	COMM	00	01	Port 2	R00S01	SERIAL	R00S01CPort 2	Weather Station	WS_4001	WS-4001	Weather Station	Weather Station	Comm		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	00	R00S02	BOOL	R00S02C00	Safety showers	FSH_3201	FSH-3201	Safety showers : Inlet flow switch high	Safety showers	High		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	01	R00S02	BOOL	R00S02C01	Safety Relay LCP-1000	LCP_1000	LCP-1000	Safety Relay LCP-1000 Triggered		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	02	R00S02	BOOL	R00S02C02	Safety Relay LCP-1001	LCP_1001	LCP-1001	Safety Relay LCP-1001 Triggered		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	03	R00S02	BOOL	R00S02C03	Safety Relay LCP-1002	LCP_1002	LCP-1002	Safety Relay LCP-1002 Triggered		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	04	R00S02	BOOL	R00S02C04		SPARE_R00_S02_C04						
00	PCP-1000	PLC-1000	DI (16ch)	00	02	05	R00S02	BOOL	R00S02C05	CO2 header	ZSO_2002	XV-2002	Valve XV-2002: Open position		Open		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	06	R00S02	BOOL	R00S02C06	CO2 header	ZSC_2002	XV-2002	Valve XV-2002: Closed position		Closed		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	07	R00S02	BOOL	R00S02C07	CO2 header	ZSO_2001A	XZV-2001A	Valve XZV-2001A: Open position		Open		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	08	R00S02	BOOL	R00S02C08	CO2 header	ZSC_2001A	XZV-2001A	Valve XZV-2001A: Closed position		Closed		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	09	R00S02	BOOL	R00S02C09	CO2 header	ZSO_2001B	XZV-2001B	Valve XZV-2001B: Open position		Open		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	10	R00S02	BOOL	R00S02C10	CO2 header	ZSC_2001B	XZV-2001B	Valve XZV-2001B: Closed position		Closed		
00	PCP-1000	PLC-1000	DI (16ch)	00	02	11	R00S02	BOOL	R00S02C11								
00	PCP-1000	PLC-1000	DI (16ch)	00	02	12	R00S02	BOOL	R00S02C12								
00	PCP-1000	PLC-1000	DI (16ch)	00	02	13	R00S02	BOOL	R00S02C13								
00	PCP-1000	PLC-1000	DI (16ch)	00	02	14	R00S02	BOOL	R00S02C14								
00	PCP-1000	PLC-1000	DI (16ch)	00	02	15	R00S02	BOOL	R00S02C15								
00	PCP-1000	PLC-1000	DI (16ch)	00	03	00	R00S03	BOOL	R00S03C00		SPARE_R00_S03_C00						
00	PCP-1000	PLC-1000	DI (16ch)	00	03	01	R00S03	BOOL	R00S03C01	TK-3101	ZSO_3101	XV-3101	Valve XV-3101: Open position		Open		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DI (16ch)	00	03	02	R00S03	BOOL	R00S03C02	TK-3101	ZSC_3101	XV-3101	Valve XV-3101: Closed position		Closed		
00	PCP-1000	PLC-1000	DI (16ch)	00	03	03	R00S03	BOOL	R00S03C03	PP-2002	PP_2002_ESTOP	PP-2002	Pump PP-2002: E-stop		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	03	04	R00S03	BOOL	R00S03C04		SPARE_R00_S03_C04						
00	PCP-1000	PLC-1000	DI (16ch)	00	03	05	R00S03	BOOL	R00S03C05		SPARE_R00_S03_C05						
00	PCP-1000	PLC-1000	DI (16ch)	00	03	06	R00S03	BOOL	R00S03C06		SPARE_R00_S03_C06						
00	PCP-1000	PLC-1000	DI (16ch)	00	03	07	R00S03	BOOL	R00S03C07		SPARE_R00_S03_C07						
00	PCP-1000	PLC-1000	DI (16ch)	00	03	08	R00S03	BOOL	R00S03C08		SPARE_R00_S03_C08						
00	PCP-1000	PLC-1000	DI (16ch)	00	03	09	R00S03	BOOL	R00S03C09								
00	PCP-1000	PLC-1000	DI (16ch)	00	03	10	R00S03	BOOL	R00S03C10	VS-2001	LSHH_2002	LSHH-2002	VS-2001: Level high high switch		Ok		
00	PCP-1000	PLC-1000	DI (16ch)	00	03	11	R00S03	BOOL	R00S03C11	VS-2001	LSH_2002	LSH-2002	VS-2001: Level high switch		Ok		
00	PCP-1000	PLC-1000	DI (16ch)	00	03	12	R00S03	BOOL	R00S03C12	VS-2001	LSL_2002	LSL-2002	VS-2001: Level low switch		Ok		
00	PCP-1000	PLC-1000	DI (16ch)	00	03	13	R00S03	BOOL	R00S03C13								
00	PCP-1000	PLC-1000	DI (16ch)	00	03	14	R00S03	BOOL	R00S03C14								
00	PCP-1000	PLC-1000	DI (16ch)	00	03	15	R00S03	BOOL	R00S03C15								
00	PCP-1000	PLC-1000	DI (16ch)	00	04	00	R00S04	BOOL	R00S04C00	PM-2001	TSHH_4001	TSHH-4001	PM-2001 temperature high high switch		Too high		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	01	R00S04	BOOL	R00S04C01		SPARE_R00_S04_C01						
00	PCP-1000	PLC-1000	DI (16ch)	00	04	02	R00S04	BOOL	R00S04C02		SPARE_R00_S04_C02						
00	PCP-1000	PLC-1000	DI (16ch)	00	04	03	R00S04	BOOL	R00S04C03		SPARE_R00_S04_C03						
00	PCP-1000	PLC-1000	DI (16ch)	00	04	04	R00S04	BOOL	R00S04C04	PM-2002	PM_2002_CFLT	PM-2002	PH Adjustement Skid: PM-2002 common fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	05	R00S04	BOOL	R00S04C05								

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DI (16ch)	00	04	06	R00S04	BOOL	R00S04C06		SPARE_R00_S04_C06						
00	PCP-1000	PLC-1000	DI (16ch)	00	04	07	R00S04	BOOL	R00S04C07		SPARE_R00_S04_C07						
00	PCP-1000	PLC-1000	DI (16ch)	00	04	08	R00S04	BOOL	R00S04C08	PM-2003	PM_2003_CFLT	PM-2003	PH Adjustement Skid: PM-2003 common fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	09	R00S04	BOOL	R00S04C09	PM-2003	PM_2003_ESTPTRP	PM-2003	PH Adjustement Skid: PM-2003 E-Stop Trip		E-stop		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	10	R00S04	BOOL	R00S04C10	PM-2003	PM_2003_RUN	PM-2003	PH Adjustement Skid: PM-2003 running		Running		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	11	R00S04	BOOL	R00S04C11	PP-3102	PP_3102_ESTOP	PP-3102	Pump PP-3102: E-STOP		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	12	R00S04	BOOL	R00S04C12								
00	PCP-1000	PLC-1000	DI (16ch)	00	04	13	R00S04	BOOL	R00S04C13		SPARE_R00_S04_C13						
00	PCP-1000	PLC-1000	DI (16ch)	00	04	14	R00S04	BOOL	R00S04C14	PP-3301	PP_3301_ESTOP	PP-3301	Pump PP-3301: E-STOP		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	04	15	R00S04	BOOL	R00S04C15								
00	PCP-1000	PLC-1000	DI (16ch)	00	05	00	R00S05	BOOL	R00S05C00		SPARE_R00_S05_C00						
00	PCP-1000	PLC-1000	DI (16ch)	00	05	01	R00S05	BOOL	R00S05C01	PM-2004	PRL_101	PM-2004 -1	PM-2004: CO2 tank low pressure alarm		Low		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	02	R00S05	BOOL	R00S05C02	PM-2004	PRH_101	PM-2004 -1	PM-2004: CO2 tank high pressure alarm		High		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	03	R00S05	BOOL	R00S05C03	PM-2004	XRR_101A	PM-2004 -3	PM-2004: Local		Local		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	04	R00S05	BOOL	R00S05C04	PM-2004	XRS_101B	PM-2004 -4	PM-2004: In Remote		Remote		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	05	R00S05	BOOL	R00S05C05	PM-2004	XAR_101	PM-2004 -5	PM-2004: Pump Fail		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	06	R00S05	BOOL	R00S05C06	CO2 storage tank and transfert pump	ZSO_2004	XZV-2004	Valve XZV-2004: Open position		Open		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	07	R00S05	BOOL	R00S05C07	CO2 storage tank and transfert pump	ZSC_2004	XZV-2004	Valve XZV-2004: Closed position		Closed		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	08	R00S05	BOOL	R00S05C08	PM-2005	PM_2005_RUN	PM-2005	PM-2005: Compressor running		Running		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	09	R00S05	BOOL	R00S05C09	PM-2005	PM_2005_ALM	PM-2005	PM-2005: Common Alarm		Alarm		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DI (16ch)	00	05	10	R00S05	BOOL	R00S05C10	PM-2005	PM_2005_SHTDWN	PM-2005	PM-2005: Common Shutdown		Shutdown		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	11	R00S05	BOOL	R00S05C11	PM-3004	HX_3301_CFLT	PM-3004	PH Adjustement Skid: PM-3004 common fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	12	R00S05	BOOL	R00S05C12								
00	PCP-1000	PLC-1000	DI (16ch)	00	05	13	R00S05	BOOL	R00S05C13	PM-3004	HX_3301_RUN	PM-3004	PH Adjustement Skid: PM-3004 running		Running		
00	PCP-1000	PLC-1000	DI (16ch)	00	05	14	R00S05	BOOL	R00S05C14								
00	PCP-1000	PLC-1000	DI (16ch)	00	05	15	R00S05	BOOL	R00S05C15								
00	PCP-1000	PLC-1000	DI (16ch)	00	06	00	R00S06	BOOL	R00S06C00		SPARE_R00_S06_C00						
00	PCP-1000	PLC-1000	DI (16ch)	00	06	01	R00S06	BOOL	R00S06C01	PE-2002	PE_2002_HVACALM	PE-2002	PE-2002: HVAC Alarm		Alarm		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	02	R00S06	BOOL	R00S06C02	PE-2002	PE_2002_DETECT	PE-2002	PE-2002: Smoke/Heat Detector		Alarm		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	03	R00S06	BOOL	R00S06C03	PE-2001	PE_2001_CLSDNORM	PE-2001	PE-2001: ATS Closed on normal		Normal		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	04	R00S06	BOOL	R00S06C04	PE-2001	PE_2001_CLSDEMRG	PE-2001	PE-2001: ATS Closed on Emergency		Emergency		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	05	R00S06	BOOL	R00S06C05	PE-2001	PE_2001_SGMBS	PE-2001	PE-2001: Switchgear Main Breaker Status		Status		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	06	R00S06	BOOL	R00S06C06	PE-2004	PE_2004_GF	PE-2004	PE-2004: General Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	07	R00S06	BOOL	R00S06C07	PE-2004	PE_2004_ST	PE-2004	PE-2004: Shunt Trip		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	08	R00S06	BOOL	R00S06C08	PE-2004	PE_2004_GR	PE-2004	PE-2004: Genset Running		Running		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	09	R00S06	BOOL	R00S06C09		SPARE_R00_S06_C09						
00	PCP-1000	PLC-1000	DI (16ch)	00	06	10	R00S06	BOOL	R00S06C10		SPARE_R00_S06_C10						
00	PCP-1000	PLC-1000	DI (16ch)	00	06	11	R00S06	BOOL	R00S06C11	ECM-01	ECM_01_FLT	ECM-01	Heat Tracing Controller ECM-01: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	12	R00S06	BOOL	R00S06C12	ECM-02	ECM_02_FLT	ECM-02	Heat Tracing Controller ECM-02: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	13	R00S06	BOOL	R00S06C13	ECM-03	ECM_03_FLT	ECM-03	Heat Tracing Controller ECM-03: Fault		Fault		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DI (16ch)	00	06	14	R00S06	BOOL	R00S06C14	ECM-04	ECM_04_FLT	ECM-04	Heat Tracing Controller ECM-04: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	06	15	R00S06	BOOL	R00S06C15	ECM-05	ECM_05_FLT	ECM-05	Heat Tracing Controller ECM-05: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	00	R00S07	BOOL	R00S07C00	ECM-06	ECM_06_FLT	ECM-06	Heat Tracing Controller ECM-06: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	01	R00S07	BOOL	R00S07C01	ECM-07	ECM_07_FLT	ECM-07	Heat Tracing Controller ECM-07: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	02	R00S07	BOOL	R00S07C02	ECM-08	ECM_08_FLT	ECM-08	Heat Tracing Controller ECM-08: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	03	R00S07	BOOL	R00S07C03	ECM-09	ECM_09_FLT	ECM-09	Heat Tracing Controller ECM-09: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	04	R00S07	BOOL	R00S07C04	ECM-10	ECM_10_FLT	ECM-10	Heat Tracing Controller ECM-10: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	05	R00S07	BOOL	R00S07C05	ECM-11	ECM_11_FLT	ECM-11	Heat Tracing Controller ECM-11: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	06	R00S07	BOOL	R00S07C06	ECM-12	ECM_12_FLT	ECM-12	Heat Tracing Controller ECM-12: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	07	R00S07	BOOL	R00S07C07	ECM-13	ECM_13_FLT	ECM-13	Heat Tracing Controller ECM-13: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	08	R00S07	BOOL	R00S07C08	ECM-14	ECM_14_FLT	ECM-14	Heat Tracing Controller ECM-14: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	09	R00S07	BOOL	R00S07C09	ECM-15	ECM_15_FLT	ECM-15	Heat Tracing Controller ECM-15: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	10	R00S07	BOOL	R00S07C10	ECM-16	ECM_16_FLT	ECM-16	Heat Tracing Controller ECM-16: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	11	R00S07	BOOL	R00S07C11	ECM-17	ECM_17_FLT	ECM-17	Heat Tracing Controller ECM-17: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	12	R00S07	BOOL	R00S07C12	ECM-18	ECM_18_FLT	ECM-18	Heat Tracing Controller ECM-18: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	13	R00S07	BOOL	R00S07C13	ECM-19	ECM_19_FLT	ECM-19	Heat Tracing Controller ECM-19: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	14	R00S07	BOOL	R00S07C14	ECM-20	ECM_20_FLT	ECM-20	Heat Tracing Controller ECM-20: Fault		Fault		
00	PCP-1000	PLC-1000	DI (16ch)	00	07	15	R00S07	BOOL	R00S07C15	ECM-21	ECM_21_FLT	ECM-21	Heat Tracing Controller ECM-21: Fault		Fault		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	00	R00S08	BOOL	R00S08C00		SPARE_R00_S08_C00						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	01	R00S08	BOOL	R00S08C01		SPARE_R00_S08_C01						

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DO (16ch)	00	08	02	R00S08	BOOL	R00S08C02		SPARE_R00_S08_C02						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	03	R00S08	BOOL	R00S08C03		SPARE_R00_S08_C03						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	04	R00S08	BOOL	R00S08C04		SPARE_R00_S08_C04						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	05	R00S08	BOOL	R00S08C05		SPARE_R00_S08_C05						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	06	R00S08	BOOL	R00S08C06	PE-2001	PE_2001_ATSRSTRT	PE-2001	PE-2001: ATS Remote Start		Start		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	07	R00S08	BOOL	R00S08C07	PM-2004	XR_101	PM-2004 -2	PM-2004: Pump Start/Stop		Stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	08	R00S08	BOOL	R00S08C08	PM-2005	PM_2005_RMTSTRT	PM-2005	PM-2005: Remote start		Start		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	09	R00S08	BOOL	R00S08C09	PM-2005	PM_2005_RMTSTP	PM-2005	PM-2005: Remote stop		Stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	10	R00S08	BOOL	R00S08C10	PM-2005	PM_2005_ESTOP	PM-2005	PM-2005: Emergency Stop		E-Stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	11	R00S08	BOOL	R00S08C11	PM-2005	PM_2005_P01_STOP	PM-2005	PM-2005: Pump 145-P011 stop		Stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	12	R00S08	BOOL	R00S08C12		SPARE_R00_S08_C12						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	13	R00S08	BOOL	R00S08C13		SPARE_R00_S08_C13						
00	PCP-1000	PLC-1000	DO (16ch)	00	08	14	R00S08	BOOL	R00S08C14	PE-2004	PE_2004_RMTSTRT	PE-2004	PE-2004: Remote Start		Running		
00	PCP-1000	PLC-1000	DO (16ch)	00	08	15	R00S08	BOOL	R00S08C15	PE-2004	PE_2004_ESTOP	PE-2004	PE-2004: ECM Estop		Fault		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	00	R00S09	BOOL	R00S09C00		SPARE_R00_S09_C00						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	01	R00S09	BOOL	R00S09C01		SPARE_R00_S09_C01						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	02	R00S09	BOOL	R00S09C02	TK-3101	XV_3101	XV-3101	Valve XV_3101: Command		Open		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	03	R00S09	BOOL	R00S09C03	VS-2001	XV_2002	XV-2002	Valve XV_2002: Command		Open		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	04	R00S09	BOOL	R00S09C04		SPARE_R00_S09_C04						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	05	R00S09	BOOL	R00S09C05		SPARE_R00_S09_C05						

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DO (16ch)	00	09	06	R00S09	BOOL	R00S09C06		SPARE_R00_S09_C06						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	07	R00S09	BOOL	R00S09C07		SPARE_R00_S09_C07						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	08	R00S09	BOOL	R00S09C08	PM-2002	PM_2002_START_STOP	PM-2002	PH Adjustement Skid: PM-2002 START/STOP Signal		Start/Stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	09	R00S09	BOOL	R00S09C09		SPARE_R00_S09_C09						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	10	R00S09	BOOL	R00S09C10		SPARE_R00_S09_C10						
00	PCP-1000	PLC-1000	DO (16ch)	00	09	11	R00S09	BOOL	R00S09C11	PM-3004	HX3301_START_STOP	PM-3004	PH Adjustement Skid: PM-3004 START/STOP		Start/Stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	12	R00S09	BOOL	R00S09C12	PM-3004	HX_3301_SP2_TRIGGER	PM-3004	PH Adjustement Skid: PM-3004 Setpoint 2 Trigger		Set		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	13	R00S09	BOOL	R00S09C13	PM-3004	HX_3301_QUIET	PM-3004	PH Adjustement Skid: PM-3004 Quiet operation		Quiet		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	14	R00S09	BOOL	R00S09C14	PM-2003	PM_2003_START	PM-2003	PH Adjustement Skid: PM-2003 Remote Start		start		
00	PCP-1000	PLC-1000	DO (16ch)	00	09	15	R00S09	BOOL	R00S09C15	PM-2003	PM_2003_STOP	PM-2003	PH Adjustement Skid: PM-2003 Remote Stop		stop		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	00	R00S10	BOOL	R00S10C00	YL-2002A	YL_2002A	YL-2002A	Gaz Dectetion Alarm Light		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	01	R00S10	BOOL	R00S10C01	YB-2002A	YB_2002A	YB-2002A	Gaz Dectetion Alarm Buzzer		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	02	R00S10	BOOL	R00S10C02	YL-2002B	YL_2002B	YL-2002B	Gaz Dectetion Alarm Light		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	03	R00S10	BOOL	R00S10C03	YB-2002B	YB_2002B	YB-2002B	Gaz Dectetion Alarm Buzzer		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	04	R00S10	BOOL	R00S10C04	YL-2002C	YL_2002C	YL-2002C	Gaz Dectetion Alarm Light		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	05	R00S10	BOOL	R00S10C05	YB-2002C	YB_2002C	YB-2002C	Gaz Dectetion Alarm Buzzer		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	06	R00S10	BOOL	R00S10C06	YL-2002D	YL_2002D	YL-2002D	Gaz Dectetion Alarm Light		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	07	R00S10	BOOL	R00S10C07	YB-2002D	YB_2002D	YB-2002D	Gaz Dectetion Alarm Buzzer		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	08	R00S10	BOOL	R00S10C08	YL-2002E	YL_2002E	YL-2002E	Gaz Dectetion Alarm Light		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	09	R00S10	BOOL	R00S10C09	YB-2002E	YB_2002E	YB-2002E	Gaz Dectetion Alarm Buzzer		Alarm		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	PCP-1000	PLC-1000	DO (16ch)	00	10	10	R00S10	BOOL	R00S10C10	YL-2002F	YL_2002F	YL-2002F	Gaz Dectetion Alarm Light		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	11	R00S10	BOOL	R00S10C11	YB-2002F	YB_2002F	YB-2002F	Gaz Dectetion Alarm Buzzer		Alarm		
00	PCP-1000	PLC-1000	DO (16ch)	00	10	12	R00S10	BOOL	R00S10C12		SPARE_R00_S10_C12						
00	PCP-1000	PLC-1000	DO (16ch)	00	10	13	R00S10	BOOL	R00S10C13		SPARE_R00_S10_C13						
00	PCP-1000	PLC-1000	DO (16ch)	00	10	14	R00S10	BOOL	R00S10C14		SPARE_R00_S10_C14						
00	PCP-1000	PLC-1000	DO (16ch)	00	10	15	R00S10	BOOL	R00S10C15		SPARE_R00_S10_C15						
00	RCP-1001	RIO-1001	DI (16ch)	00	01	00	R00S01	BOOL	R00S01C00	RO water	ZSO_1015	XV-1015	Valve XV-1015: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	01	R00S01	BOOL	R00S01C01	RO water	ZSC_1015	XV-1015	Valve XV-1015: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	02	R00S01	BOOL	R00S01C02	Acid waste	ZSO_5101A	XV-5101A	Valve XV-5101A: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	03	R00S01	BOOL	R00S01C03	Acid waste	ZSC_5101A	XV-5101A	Valve XV-5101A: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	04	R00S01	BOOL	R00S01C04	Acid waste	ZSO_5101B	XV-5101B	Valve XV-5101B: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	05	R00S01	BOOL	R00S01C05	Acid waste	ZSC_5101B	XV-5101B	Valve XV-5101B: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	06	R00S01	BOOL	R00S01C06	Acid waste	ZSO_5101C	XV-5101C	Valve XV-5101C: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	07	R00S01	BOOL	R00S01C07	Acid waste	ZSC_5101C	XV-5101C	Valve XV-5101C: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	08	R00S01	BOOL	R00S01C08	PP-1001	PP_1001_ESTOP	PP-1001	Pump PP-1001: E-STOP		Fault		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	09	R00S01	BOOL	R00S01C09		SPARE_R00_S01_C09						
00	RCP-1001	RIO-1001	DI (16ch)	00	01	10	R00S01	BOOL	R00S01C10		SPARE_R00_S01_C10						
00	RCP-1001	RIO-1001	DI (16ch)	00	01	11	R00S01	BOOL	R00S01C11		SPARE_R00_S01_C11						
00	RCP-1001	RIO-1001	DI (16ch)	00	01	12	R00S01	BOOL	R00S01C12	RO water	ZSO_1055	XV-1055	Valve XV-1055: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	01	13	R00S01	BOOL	R00S01C13	RO water	ZSC_1055	XV-1055	Valve XV-1055: Closed position		Closed		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	RCP-1001	RIO-1001	DI (16ch)	00	01	14	R00S01	BOOL	R00S01C14		SPARE_R00_S01_C14						
00	RCP-1001	RIO-1001	DI (16ch)	00	01	15	R00S01	BOOL	R00S01C15		SPARE_R00_S01_C15						
00	RCP-1001	RIO-1001	DI (16ch)	00	02	00	R00S02	BOOL	R00S02C00	RO water	ZSO_1025	XV-1025	Valve XV-1025: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	01	R00S02	BOOL	R00S02C01	RO water	ZSC_1025	XV-1025	Valve XV-1025: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	02	R00S02	BOOL	R00S02C02	Acid waste	ZSO_5102A	XV-5102A	Valve XV-5102A: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	03	R00S02	BOOL	R00S02C03	Acid waste	ZSC_5102A	XV-5102A	Valve XV-5102A: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	04	R00S02	BOOL	R00S02C04	Acid waste	ZSO_5102B	XV-5102B	Valve XV-5102B: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	05	R00S02	BOOL	R00S02C05	Acid waste	ZSC_5102B	XV-5102B	Valve XV-5102B: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	06	R00S02	BOOL	R00S02C06	Acid waste	ZSO_5102C	XV-5102C	Valve XV-5102C: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	07	R00S02	BOOL	R00S02C07	Acid waste	ZSC_5102C	XV-5102C	Valve XV-5102C: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	08	R00S02	BOOL	R00S02C08	PP-1002	PP_1002_ESTOP	PP-1002	Pump PP-1002: E-STOP		Fault		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	09	R00S02	BOOL	R00S02C09								
00	RCP-1001	RIO-1001	DI (16ch)	00	02	10	R00S02	BOOL	R00S02C10								
00	RCP-1001	RIO-1001	DI (16ch)	00	02	11	R00S02	BOOL	R00S02C11								
00	RCP-1001	RIO-1001	DI (16ch)	00	02	12	R00S02	BOOL	R00S02C12	RO water	ZSO_1075	XV-1075	Valve XV-1075: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	13	R00S02	BOOL	R00S02C13	RO water	ZSC_1075	XV-1075	Valve XV-1075: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	02	14	R00S02	BOOL	R00S02C14								
00	RCP-1001	RIO-1001	DI (16ch)	00	02	15	R00S02	BOOL	R00S02C15								
00	RCP-1001	RIO-1001	DI (16ch)	00	03	00	R00S03	BOOL	R00S03C00	RO water	ZSO_1095	XV-1095	Valve XV-1095: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	01	R00S03	BOOL	R00S03C01	RO water	ZSC_1095	XV-1095	Valve XV-1095: Closed position		Closed		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	RCP-1001	RIO-1001	DI (16ch)	00	03	02	R00S03	BOOL	R00S03C02	Acid waste	ZSO_5109A	XV-5109A	Valve XV-5109A: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	03	R00S03	BOOL	R00S03C03	Acid waste	ZSC_5109A	XV-5109A	Valve XV-5109A: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	04	R00S03	BOOL	R00S03C04	Acid waste	ZSO_5109B	XV-5109B	Valve XV-5109B: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	05	R00S03	BOOL	R00S03C05	Acid waste	ZSC_5109B	XV-5109B	Valve XV-5109B: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	06	R00S03	BOOL	R00S03C06	Acid waste	ZSO_5109C	XV-5109C	Valve XV-5109C: Open position		Open		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	07	R00S03	BOOL	R00S03C07	Acid waste	ZSC_5109C	XV-5109C	Valve XV-5109C: Closed position		Closed		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	08	R00S03	BOOL	R00S03C08	PP-1009	PP_1009_ESTOP	PP-1009	Pump PP-1009: E-STOP		Fault		
00	RCP-1001	RIO-1001	DI (16ch)	00	03	09	R00S03	BOOL	R00S03C09								
00	RCP-1001	RIO-1001	DI (16ch)	00	03	10	R00S03	BOOL	R00S03C10		SPARE_R00_S03_C10						
00	RCP-1001	RIO-1001	DI (16ch)	00	03	11	R00S03	BOOL	R00S03C11		SPARE_R00_S03_C11						
00	RCP-1001	RIO-1001	DI (16ch)	00	03	12	R00S03	BOOL	R00S03C12		SPARE_R00_S03_C12						
00	RCP-1001	RIO-1001	DI (16ch)	00	03	13	R00S03	BOOL	R00S03C13								
00	RCP-1001	RIO-1001	DI (16ch)	00	03	14	R00S03	BOOL	R00S03C14								
00	RCP-1001	RIO-1001	DI (16ch)	00	03	15	R00S03	BOOL	R00S03C15								
00	RCP-1001	RIO-1001	DO (16ch)	00	04	00	R00S04	BOOL	R00S04C00	RO water	FY_1015	XV-1015	Valve XV-1015: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	01	R00S04	BOOL	R00S04C01	Acid waste	XV_5101A	XV-5101A	Valve XV-5101A: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	02	R00S04	BOOL	R00S04C02	Acid waste	XV_5101B	XV-5101B	Valve XV-5101B: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	03	R00S04	BOOL	R00S04C03	Acid waste	XV_5101C	XV-5101C	Valve XV-5101C: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	04	R00S04	BOOL	R00S04C04		SPARE_R00_S04_C04						
00	RCP-1001	RIO-1001	DO (16ch)	00	04	05	R00S04	BOOL	R00S04C05								

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	RCP-1001	RIO-1001	DO (16ch)	00	04	06	R00S04	BOOL	R00S04C06	Partner PAD PM-1001	PM_1001_EMRG	PM-1001	Partner PAD: PM-1001 Emergency power		E Power		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	07	R00S04	BOOL	R00S04C07	RO water	FY_1025	XV-1025	Valve XV-1025: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	08	R00S04	BOOL	R00S04C08	Acid waste	XV_5102A	XV-5102A	Valve XV-5102A: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	09	R00S04	BOOL	R00S04C09	Acid waste	XV_5102B	XV-5102B	Valve XV-5102B: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	10	R00S04	BOOL	R00S04C10	Acid waste	XV_5102C	XV-5102C	Valve XV-5102C: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	11	R00S04	BOOL	R00S04C11		SPARE_R00_S04_C11						
00	RCP-1001	RIO-1001	DO (16ch)	00	04	12	R00S04	BOOL	R00S04C12								
00	RCP-1001	RIO-1001	DO (16ch)	00	04	13	R00S04	BOOL	R00S04C13	Partner PAD PM-1002	PM_1002_EMRG	PM-1002	Partner PAD: PM-1002 Emergency power		E Power		
00	RCP-1001	RIO-1001	DO (16ch)	00	04	14	R00S04	BOOL	R00S04C14		SPARE_R00_S04_C14						
00	RCP-1001	RIO-1001	DO (16ch)	00	04	15	R00S04	BOOL	R00S04C15								
00	RCP-1001	RIO-1001	DO (16ch)	00	05	00	R00S05	BOOL	R00S05C00	RO water	FY_1055	XV-1055	Valve XV-1055: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	01	R00S05	BOOL	R00S05C01	Partner PAD PM-1005	PM_1005_EMRG	PM-1005	Partner PAD: PM-1005 Emergency power		E Power		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	02	R00S05	BOOL	R00S05C02	RO water	FY_1075	XV-1075	Valve XV-1075: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	03	R00S05	BOOL	R00S05C03	Partner PAD PM-1007	PM_1007_EMRG	PM-1007	Partner PAD: PM-1007 Emergency power		E Power		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	04	R00S05	BOOL	R00S05C04	RO water	FY_1095	XV-1095	Valve XV-1095: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	05	R00S05	BOOL	R00S05C05	Acid waste	XV_5109A	XV-5109A	Valve XV-5109A: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	06	R00S05	BOOL	R00S05C06	Acid waste	XV_5109B	XV-5109B	Valve XV-5109B: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	07	R00S05	BOOL	R00S05C07	Acid waste	XV_5109C	XV-5109C	Valve XV-5109C: Command		Open		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	08	R00S05	BOOL	R00S05C08		SPARE_R00_S05_C08						
00	RCP-1001	RIO-1001	DO (16ch)	00	05	09	R00S05	BOOL	R00S05C09		SPARE_R00_S05_C09						

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	RCP-1001	RIO-1001	DO (16ch)	00	05	10	R00S05	BOOL	R00S05C10	Partner PAD PM-1009	PM_1009_EMRG	PM-1009	Partner PAD: PM-1009 Emergency power		E Power		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	11	R00S05	BOOL	R00S05C11	Partner PAD PM-1010	PM_1010_EMRG	PM-1010	Partner PAD: PM-1010 Emergency power		E Power		
00	RCP-1001	RIO-1001	DO (16ch)	00	05	12	R00S05	BOOL	R00S05C12								
00	RCP-1001	RIO-1001	DO (16ch)	00	05	13	R00S05	BOOL	R00S05C13		SPARE_R00_S05_C13						
00	RCP-1001	RIO-1001	DO (16ch)	00	05	14	R00S05	BOOL	R00S05C14								
00	RCP-1001	RIO-1001	DO (16ch)	00	05	15	R00S05	BOOL	R00S05C15								
00	RCP-1002	RIO-1002	DI (16ch)	00	01	00	R00S01	BOOL	R00S01C00	RO water	ZSO_1035	XV-1035	Valve XV-1035: Open position		Open		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	01	R00S01	BOOL	R00S01C01	RO water	ZSC_1035	XV-1035	Valve XV-1035: Closed position		Closed		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	02	R00S01	BOOL	R00S01C02	RO water	ZSO_1085	XV-1085	Valve XV-1085: Open position		Open		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	03	R00S01	BOOL	R00S01C03	RO water	ZSC_1085	XV-1085	Valve XV-1085: Closed position		Closed		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	04	R00S01	BOOL	R00S01C04	ECM-22	ECM_022_FLT	ECM-22	Heat Tracing Controller ECM-22: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	05	R00S01	BOOL	R00S01C05	ECM-23	ECM_023_FLT	ECM-23	Heat Tracing Controller ECM-23: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	06	R00S01	BOOL	R00S01C06	ECM-24	ECM_024_FLT	ECM-24	Heat Tracing Controller ECM-24: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	07	R00S01	BOOL	R00S01C07	ECM-25	ECM_025_FLT	ECM-25	Heat Tracing Controller ECM-25: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	08	R00S01	BOOL	R00S01C08	ECM-26	ECM_026_FLT	ECM-26	Heat Tracing Controller ECM-26: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	09	R00S01	BOOL	R00S01C09	ECM-27	ECM_027_FLT	ECM-27	Heat Tracing Controller ECM-27: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	10	R00S01	BOOL	R00S01C10	ECM-28	ECM_028_FLT	ECM-28	Heat Tracing Controller ECM-28: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	11	R00S01	BOOL	R00S01C11	ECM-29	ECM_029_FLT	ECM-29	Heat Tracing Controller ECM-29: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	12	R00S01	BOOL	R00S01C12	ECM-30	ECM_030_FLT	ECM-30	Heat Tracing Controller ECM-30: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	13	R00S01	BOOL	R00S01C13	ECM-31	ECM_031_FLT	ECM-31	Heat Tracing Controller ECM-31: Fault		Fault		

Discrete I/O

Rev.	IO cards							Variable type	Address	Equipment / System	Tag name	Source	Description	Equipment	1 = Status?	Alarms	
	Cabinet	Controller	Signal type	Rack	Slot	Channel	TB trem.									1 or 0 = alarm?	Delay (s)
00	RCP-1002	RIO-1002	DI (16ch)	00	01	14	R00S01	BOOL	R00S01C14	ECM-32	ECM_032_FLT	ECM-32	Heat Tracing Controller ECM-32: Fault		Fault		
00	RCP-1002	RIO-1002	DI (16ch)	00	01	15	R00S01	BOOL	R00S01C15	ECM-33	ECM_033_FLT	ECM-33	Heat Tracing Controller ECM-33: Fault		Fault		
00	RCP-1002	RIO-1002	DO (16ch)	00	02	00	R00S02	BOOL	R00S02C00	RO water	XV_1035	XV-1035	Valve XV-1035: Command		Open		
00	RCP-1002	RIO-1002	DO (16ch)	00	02	01	R00S02	BOOL	R00S02C01	RO water	XV_1085	XV-1085	Valve XV-1085: Command				
00	RCP-1002	RIO-1002	DO (16ch)	00	02	02	R00S02	BOOL	R00S02C02	Partner PAD PM-1003	PM_1003_EMRG	PM-1003	Partner PAD: PM-1003 Emergency power		E Power		
00	RCP-1002	RIO-1002	DO (16ch)	00	02	03	R00S02	BOOL	R00S02C03	Partner PAD PM-1004	PM_1004_EMRG	PM-1004	Partner PAD: PM-1004 Emergency power		E Power		
00	RCP-1002	RIO-1002	DO (16ch)	00	02	04	R00S02	BOOL	R00S02C04	Partner PAD PM-1006	PM_1006_EMRG	PM-1006	Partner PAD: PM-1006 Emergency power		E Power		
00	RCP-1002	RIO-1002	DO (16ch)	00	02	05	R00S02	BOOL	R00S02C05	Partner PAD PM-1008	PM_1008_EMRG	PM-1008	Partner PAD: PM-1008 Emergency power		E Power		
00	RCP-1002	RIO-1002	DO (16ch)	00	02	06	R00S02	BOOL	R00S02C06		SPARE_R00_S02_C06						
00	RCP-1002	RIO-1002	DO (16ch)	00	02	07	R00S02	BOOL	R00S02C07		SPARE_R00_S02_C07						