



 Gachsaran Polymer Industries Company PIDMCO	Gachsaran Polymer Industries Company HDPE Plant I/O list for Refrigerator Package		
			
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Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
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 EIED Energy Industries Engineering & Design co.	Date: April. 08, 2026 Dept.: MA Signature: F.HAmooni

03	15-Feb-26	IFR	A.M	F.T	A.M
02	4-Jan-26	IFR	A.M	F.T	A.M
01	3-Nov-25	IFR	A.M	F.T	A.M
00	8-Jul-25	IFR	A.M	F.T	A.M
Rev.	DATE	PURPOSE OF ISSUE	PREPARED	CHECKED	APPROVED



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IN-01. Please clarify that why panel internal signals have been deleted?

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TAG	SERVICE	PID DWG No.	TYPE	FROM	TO	DESCRIPTION	Engineering units	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL	CONTACT TYPE	POWER SUPPLY	TYPE	SERIAL	IS/NIS	RACK	SLOT	CHANNEL	STATES		
																					STATE S'0'	STATE S'1'
Card Type: Digital IN/ 16																						
XA-61199	Propylene	VD-GPIC-MA-3029-3029-0045						UCP-6104	UCP-6104	DI	24VDC	-	PW400	H		NIS	2	2	0	OFF	ON	
XA-61198	Propylene	VD-GPIC-MA-3029-3029-0045						UCP-6104	UCP-6104	DI	24VDC	-	PW400	H		NIS	2	2	4	OFF	ON	
XA-61190	Propylene	VD-GPIC-MA-3029-3029-0015						UCP-6101	UCP-6101	DI	24VDC	-	PW400	H		NIS	2	2	2	OFF	ON	
XA-61191	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	PLC	LOGIC POWER SUPPLY # 2 OK		UCP-6101	UCP-6101	DI	24VDC	-	PW400	H		NIS	2	2	3	OFF	ON	
XA-61192	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	PLC	I/O POWER SUPPLY # 1 OK		UCP-6101	UCP-6101	DI	24VDC	-	PW400	H		NIS	2	2	4	OFF	ON	
XA-61193	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	PLC	I/O POWER SUPPLY # 2 OK		UCP-6101	UCP-6101	DI	24VDC	-	PW400	H		NIS	2	2	5	OFF	ON	
HS-61161	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	PLC	ESD		UCP-6101	UCP-6101	DI	24VDC	-	PW400	H		NIS	2	2	6			
						SPARE											2	2	7			
HS-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	EMERGENCY STOP PB.		COMP A SKID	LCP-6101A	DI	24VDC	NC	PW400	H		NIS	2	2	8	OFF	ON	
HST-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	COMPRESSOR -A- LOCAL START PB		COMP A SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	2	9	OFF	ON	
HSP-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	COMPRESSOR -A- LOCAL STOP PB		COMP A SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	2	10	OFF	ON	
						SPARE											2	2	11			
HST-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101B	UCP-6101	COMPRESSOR -B- LOCAL START PB		COMP -B- SKID	LCP-6101B	DI	24VDC	NO	PW400	H		NIS	2	2	12	OFF	ON	
HSP-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101B	UCP-6101	COMPRESSOR -B- LOCAL STOP PB		COMP -B- SKID	LCP-6101B	DI	24VDC	NO	PW400	H		NIS	2	2	13	OFF	ON	
ESD-61010	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	ESD	PLC	ESD		ESD	UCP-6101	DI	24VDC	NC	PW400	H		NIS	2	2	14	OFF	ON	
						SPARE											2	2	15			
Card Type: Digital IN/ 16																						
TAG	SERVICE	PID DWG No.	TYPE	FROM	TO	DESCRIPTION	Engineering units	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL	RELAY OUTPUT	POWER SUPPLY	TYPE	SERIAL	IS/NIS	RACK	SLOT	CHANNEL	STATE S'0'	STATE S'1'	
HSLR-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	COMPRESSOR -A- LOCAL -REMOTE SELECTOR		COMP -A- SKID	LCP-6101A	DI	24VDC	-	PW400	H		NIS	2	3	0	OFF	ON	
HSLR-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101B	UCP-6101	COMPRESSOR -B- LOCAL -REMOTE SELECTOR		COMP -B- SKID	LCP-6101B	DI	24VDC	-	PW400	H		NIS	2	3	1	OFF	ON	
HS-C6101AL	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	LAMP TEST ON LCPA		COMP -A- SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	3	2	OFF	ON	
HS-C6101BL	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101B	UCP-6101	LAMP TEST ON LCPB		COMP -B- SKID	LCP-6101B	DI	24VDC	NO	PW400	H		NIS	2	3	3	OFF	ON	
						SPARE				DI	24VDC		PW400				2	3	4			
						SPARE				DI	24VDC		PW400				2	3	5			

Vendor Reply (14-Apr): Please be informed that based on hardware design, the power supply protection considered by tag number XA-61190 and XA-61191. These two tag numbers will be detect all the issues regarding to power supply and incoming voltage line.



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						SPARE				DI	24VDC		PW400				2	3	6		
						SPARE				DI	24VDC		PW400				2	3	7		
ZSH-61111	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	FIELD	UCP-6101	COMPRESSOR -A- SLIDE VALVE 100%		COMP -A- SKID	JB-UIA-61111	DI	24VDC	NO	PW400	H		IS	2	3	8	OFF	ON
ZSL-61111	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	FIELD	UCP-6101	COMPRESSOR -A- SLIDE VALVE 0%		COMP -A- SKID	JB-UIA-61111	DI	24VDC	NO	PW400	H		IS	2	3	9	OFF	ON
ZSH-61121	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	FIELD	UCP-6101	COMPRESSOR -B- SLIDE VALVE 100%		COMP -B- SKID	JB-UIA-61121	DI	24VDC	NO	PW400	H		IS	2	3	10	OFF	ON
ZSL-61121	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	FIELD	UCP-6101	COMPRESSOR -B- SLIDE VALVE 0%		COMP -B- SKID	JB-UIA-61121	DI	24VDC	NO	PW400	H		IS	2	3	11	OFF	ON
						SPARE				DI	24VDC		PW400				2	3	12		
YSLH-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	COMPRESSOR -B- RUNNING		MCC	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	3	13	OFF	ON
YSLF-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	COMPRESSOR -B- FAULT		MCC	UCP-6101	DI	24VDC	NC	PW400	H		NIS	2	3	14	OFF	ON
						SPARE				DI	24VDC		PW400				2	3	15		

Card Type: Digital IN/ 16

TAG						DESCRIPTION		LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY			RACK	SLOT	CHANNEL			
YSLH-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	COMPRESSOR -A- RUNNING		MCC	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	4	0	OFF	ON
YSLF-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	COMPRESSOR -A- FAULT		MCC	UCP-6101	DI	24VDC	NC	PW400	H		NIS	2	4	1	OFF	ON
YSLH-EH6101	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	OIL HEATER RUNNING		MCC	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	4	2	OFF	ON
YSLF-EH6101	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6102	OIL HEATER - FAULT		MCC	UCP-6101	DI	24VDC	NC	PW400	H		NIS	2	4	3	OFF	ON
YSLH-P6111A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	PUMP A RUNNING		MCC	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	4	4	OFF	ON
YSLF-P6111A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	PUMP A - FAULT		MCC	UCP-6101	DI	24VDC	NC	PW400	H		NIS	2	4	5	OFF	ON
YSLH-P6111B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	PUMP B RUNNING		MCC	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	4	6	OFF	ON
YSLF-P6111B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	MCC	UCP-6101	PUMP B - FAULT		MCC	UCP-6101	DI	24VDC	NC	PW400	H		NIS	2	4	7	OFF	ON
						SPARE				DI	24VDC		PW400	H		NIS	2	4	8		
						SPARE				DI	24VDC	-	PW400				2	4	9		
						SPARE				DI	24VDC		PW400				2	4	10		
HS-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101B	UCP-6101	EMERGENCY STOP PB.		COMP -B- SKID	LCP-6101B	DI	24VDC	NC	PW400	H		NIS	2	4	11	OFF	ON
YLH-P6111A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101A	PUMP A RUNNING		COMP -A- SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	4	12	OFF	ON
YL-P6111A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101A	PUMP A - FAULT		COMP -A- SKID	LCP-6101A	DI	24VDC	NC	PW400	H		NIS	2	4	13	OFF	ON
YLH-P6111B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101A	PUMP B RUNNING		COMP -A- SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	4	14	OFF	ON
YL-P6111B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101A	PUMP B - FAULT		COMP -A- SKID	LCP-6101A	DI	24VDC	NC	PW400	H		NIS	2	4	15	OFF	ON



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Card Type: Digital IN/ 16

TAG	SERVICE	PID DWG No.	TYPE	FROM	TO	DESCRIPTION	Engineering units	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY	TYPE	SERIAL	IS/NIS	RACK	SLOT	CHANNEL	STATE S'0'	STATE S'1'
HS-P6111A/B-A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	LEAD/LAG - PUMP A - SELECTOR		COMP -A- SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	5	0	OFF	ON
HS-P6111A/B-B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	LEAD/LAG - PUMP B - SELECTOR		COMP -A- SKID	LCP-6101A	DI	24VDC	NO	PW400	H		NIS	2	5	1	OFF	ON
HSLR-P6111A-1	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	HOA-HAND - PUMP A		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	2	OFF	ON
HSLR-P6111A-2	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6102	HOA-OFF - PUMP A		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	3	OFF	ON
HSLR-P6111A-3	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	HOA-AUTO - PUMP A		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	4	OFF	ON
HST-P6111A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	PUMP A LOCAL START PB		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	5	OFF	ON
HSP-P6111A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	PUMP A LOCAL STOP PB		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	6	OFF	ON
						SPARE				DI	24VDC	-	PW400				2	5	7		
HSLR-P6111B-1	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	HOA-HAND - PUMP B		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	8	OFF	ON
HSLR-P6111B-2	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6102	HOA-OFF - PUMP B		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	9	OFF	ON
HSLR-P6111B-3	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	HOA-AUTO - PUMP B		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	10	OFF	ON
HST-P6111B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	PUMP B LOCAL START PB		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	11	OFF	ON
HSP-P6111B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	LCP-6101A	UCP-6101	PUMP B LOCAL STOP PB		COMP -A- SKID	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	12	OFF	ON
TS-6101	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	DCS	UCP-6101	TIME SYNCHRONIZATION		DCS	UCP-6101	DI	24VDC	NO	PW400	H		NIS	2	5	13		
						SPARE				DI	24VDC		PW400				2	5	14		
						SPARE				DI	24VDC		PW400				2	5	15		

STATES

TAG	SERVICE	PID DWG No.	TYPE	FROM	TO	DESCRIPTION	Engineering units	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY	TYPE	SERIAL	IS/NIS	RACK	SLOT	CHANNEL	STATE S'0'	STATE S'1'
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Card Type: Digital OUT/ 16

TAG	SERVICE	PID DWG No.	TYPE	FROM	TO	DESCRIPTION	Engineering units	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY	TYPE	SERIAL	IS/NIS	RACK	SLOT	CHANNEL	STATE S'0'	STATE S'1'
YLH-6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101A	COMPRESSOR -A- RUNNING		COMP SKID	LCP-6101A	DO	24VDC	NDE	PW400	H		NIS	2	6	0	OFF	ON
YL-6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101A	COMPRESSOR -A- AVAILABLE/FAULT		COMP SKID	LCP-6101A	DO	24VDC	NDE	PW400	H		NIS	2	6	1	OFF	ON
YLH-6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101B	COMPRESSOR -B- RUNNING		COMP SKID	LCP-6101A	DO	24VDC	NDE	PW400	H		NIS	2	6	2	OFF	ON
YL-6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	LCP-6101B	COMPRESSOR -B- AVAILABLE/FAULT		COMP SKID	LCP-6101A	DO	24VDC	NDE	PW400	H		NIS	2	6	3	OFF	ON
						SPARE				DO	24VDC		PW400				2	6	4		



IN-01. Please clarify that why panel internal signals have been deleted?

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Vendor Reply (14-Apr): please be informed that fan will be automatically activated by temperature changes in project design criteria and no need to have command from PLC.

TAG	Material	VD-GPIC-MA-3029-3029-0015	Signal Type	UCP-6101	MCC	DESCRIPTION	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY	RACK	SLOT	CHANNEL	OFF	ON
XA-61195	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	COMP.A. START COMMAND TO MCC	COMP SKID	JB-UEV-612	DO	24VDC	NE	PW400	2	7	0	OFF	ON
HSL-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	COMP.A. STOP COMMAND TO MCC	COMP SKID	JB-UEV-612	DO	24VDC	NE	PW400	2	7	1	OFF	ON
HSB-C6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	COMP.B. START COMMAND TO MCC	COMP SKID	JB-UEV-622	DO	24VDC	NE	PW400	2	7	2	OFF	ON
HSL-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	COMP.B. STOP COMMAND TO MCC	COMP SKID	JB-UEV-622	DO	24VDC	NE	PW400	2	7	3	OFF	ON
HSB-C6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	PUMP.A. START COMMAND TO MCC	VESSLS SKID	JB-UEV-652	DO	24VDC	NE	PW400	2	7	0	OFF	ON
HSL-P6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	PUMP.A. STOP COMMAND TO MCC	VESSLS SKID	JB-UEV-652	DO	24VDC	NE	PW400	2	7	1	OFF	ON
HSB-P6101A	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	PUMP.B. START COMMAND TO MCC	VESSLS SKID	JB-UEV-652	DO	24VDC	NE	PW400	2	7	2	OFF	ON
HSL-P6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	PUMP.B. STOP COMMAND TO MCC	VESSLS SKID	JB-UEV-652	DO	24VDC	NE	PW400	2	7	3	OFF	ON
HSB-P6101B	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	ELEC.HEATER. START COMMAND TO MCC	VESSLS SKID	JB-UEV-652	DO	24VDC	NE	PW400	2	7	4	OFF	ON
HSL-EH6101	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	ELEC.HEATER. STOP COMMAND TO MCC	VESSLS SKID	JB-UEV-652	DO	24VDC	NE	PW400	2	7	5	OFF	ON
HSB-EH6101	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	MCC	SPARE			DO	24VDC		PW400	2	7	6	OFF	ON
						SPARE			DO	24VDC		PW400	2	7	7	OFF	ON
						SPARE			DO	24VDC		PW400	2	7	8	OFF	ON
						SPARE			DO	24VDC		PW400	2	7	9	OFF	ON
XA-61101	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	DCS	COMPRESSOR -A- ALRM COMPRESSOR	UCP-6101	UCP-6101	DO	24VDC	NDE	PW400	2	7	6	OFF	ON
XA-61102	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	DCS	COMMON -A- TRIP COMPRESSOR	UCP-6101	UCP-6101	DO	24VDC	NDE	PW400	2	7	7	OFF	ON
XA-61103	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	DCS	COMPRESSOR -B- TRIP COMPRESSOR	UCP-6101	UCP-6101	DO	24VDC	NDE	PW400	2	7	8	OFF	ON
XA-61104	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	DCS	COMMON -B- ALRM COMPRESSOR	UCP-6101	UCP-6101	DO	24VDC	NDE	PW400	2	7	9	OFF	ON
UA-61199	Propylene	VD-GPIC-MA-3029-3029-0015	BOOL	UCP-6101	DCS	INTERLOCK ACTIVATED FOR COMP. B	UCP-6101	UCP-6101	DO	24VDC	NDE	PW400	2	7	10	OFF	ON

 															Gachsaran Polymer Industries Company HDPE Plant I/O list for Refrigerator Package										 																																																																																														
PO No. GPIC-PT-MA-PO-000-3029															VD-GPIC-MA-3029-3029-0045										Rev. 03																																																																																														
UA-61144															Propylene										VD-GPIC-MA-3029-3029-0045					BOOL					UCP-6104					DCS					INTERLOCK ACTIVATED FOR COMP. A					UCP-6104					UCP-6104					DO					24VDC					CONTACT					PW400					H					S					NIS					2					7					44					OFF PULS E					ON PULS E				
TAG	SERVICE	PID DWG No.	TYPE	FROM	TO	DESCRIPTION	Engineering units	LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL	RELAY OUTPUT	POWER SUPPLY	TYPE	SERIAL	IS/NIS	RACK	SLOT	CHANNEL	STATE S'0'	STATE S'1'																																																																																																		
Card Type: Digital IN/ 16																																																																																																																							
Card Type/: Analog IN/ 8																																																																																																																							
PT-61111	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6104	COMPRESSOR -A- SUCTION PRESSURE	Bar	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	8	0																																																																																																				
PT-61113	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -A- OIL SUPPLY PRESSURE	Bar	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	8	1																																																																																																				
TT-61111	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -A-SUCTION TEMPERATURE	C	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	8	2																																																																																																				
VT-61111	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6104	COMPRESSOR -A- CASING VIBRATION	G	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	8	3																																																																																																				
ZT-61111	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -A- SLIDE VALVE POSITION	%	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	8	4																																																																																																				
						SPARE				AI	4-20mA	-					2	8	5																																																																																																				
TE/TT-61127	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR MOTOR -B- BEARING TEMP DE (Note 1)	C	COMP -B- SKID	MOTOR JB	AI	4-20mA	-	PW400	H	S	IS	2	8	6																																																																																																				
TE/TT-61128	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR MOTOR -B- BEARING TEMP NDE (Note 1)	C	COMP -B- SKID	MOTOR JB	AI	4-20mA	-	PW400	H	S	IS	2	8	7																																																																																																				
Card Type/: Analog IN/ 8																																																																																																																							
PT-61121	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6104	COMPRESSOR -B- SUCTION PRESSURE	Bar	COMP SKID	JB-UIA-621	AI	4-20mA	-	PW400	H	S	IS	2	9	0																																																																																																				
PT-61123	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -B- OIL SUPPLY PRESSURE	Bar	COMP SKID	JB-UIA-621	AI	4-20mA	-	PW400	H	S	IS	2	9	1																																																																																																				
TT-61121	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -B-SUCTION TEMPERATURE	C	COMP SKID	JB-UIA-621	AI	4-20mA	-	PW400	H	S	IS	2	9	2																																																																																																				
VT-61124	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6104	COMPRESSOR -B- CASING VIBRATION	G	COMP SKID	JB-UIA-61124	AI	4-20mA	-	PW400	H	S	IS	2	9	3																																																																																																				
ZT-61121	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -B- SLIDE VALVE POSITION	%	COMP SKID	JB-UIA-621	AI	4-20mA	-	PW400	H	S	IS	2	9	4																																																																																																				
						SPARE				AI	4-20mA	-					2	9	5																																																																																																				
TE/TT-61117	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR MOTOR -A- BEARING TEMP DE (Note 1)	C	COMP -A- SKID	MOTOR JB	AI	4-20mA	-	PW400	H	S	IS	2	9	6																																																																																																				
TE/TT-61118	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR MOTOR -A- BEARING TEMP NDE (Note 1)	C	COMP -A- SKID	MOTOR JB	AI	4-20mA	-	PW400	H	S	IS	2	9	7																																																																																																				
Card Type/: Analog IN/ 8																																																																																																																							
PT-61131	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMMON DISCHARGE PRESSURE	Bar	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	0																																																																																																				
PT-61132	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COALESCER ELEMENT OUTLET PRESSURE	Bar	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	1																																																																																																				



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PT-61133	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	OIL FILTER SUPPLY PRESSURE	Bar	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	2		
PT-61134	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	OIL SUPPLY PRESSURE	Bar	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	3		
TT-61131	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	OIL SEPARATOR TEMPERATURE	C	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	4		
TT-61132	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	OIL SUPPLY TEMPERATURE	C	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	5		
LT-61134	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	OIL SEPARATOR LEVEL	%	COMP SKID	JB-UIA-611	AI	4-20mA	-	PW400	H	S	IS	2	10	6		
						SPARE				AI	4-20mA	-					2	10	7		

Card Type/: Analog IN/ 8

TAG		DESCRIPTION			LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY			RACK	SLOT	CHANNEL						
TIC-61101	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	DCS	UCP-6101	CHILLER TUBE OUTLET TEMPERATURE	C	VESSLS SKID	JB-UIA-61141	AI	4-20mA	-	PW400	H	S	IS	2	11	0		
LT-61151	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	CHILLER LEVEL	%	VESSLS SKID	JB-UIA-641	AI	4-20mA	-	PW400	H	S	IS	2	11	1		
						SPARE				AI	4-20mA	-	PW400				2	11	2		
PT-61141	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	ECONOMIZER TUBESIDE PRESSURE	Bar	COMP SKID	JB-UIA-641	AI	4-20mA	-	PW400	H	S	IS	2	11	3		
TT-61141	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	ECONOMIZER TUBESIDE TEMPERATURE	Bar	COMP SKID	JB-UIA-641	AI	4-20mA	-	PW400	H	S	IS	2	11	4		
TT-61190	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	UCP-6101	UCP-6101	UNIT CONTROL PANEL TEMPERATURE	C	UCP-6101	UCP-6101	AI	4-20mA	-	PW400	H	S	NIS	2	11	5		
IT-61111	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	MCC	UCP-6101				UCP-6101	AI	4-20mA	-	PW400	H	S	NIS	2	11	6		
IT-61121	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	MCC	UCP-6101				UCP-6101	AI	4-20mA	-	PW400	H	S	NIS	2	11	7		





IN-01. Please clarify that why panel internal signals have been deleted?

Vendor Reply (14-Apr): According to design thermostat considered directly connected to fan and no need to extra temperature transmitter. this design is customized for UCP outdoor units while this project is different UCP location is indoor.

TAG		DESCRIPTION			LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY			RACK	SLOT	CHANNEL						
PT-61111	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -A- SUCTION PRESSURE	Bar	COMP SKID	JB-UIA-611	AIR	4-20mA	-	PW400	H	S	IS	2	12,13	0		
PT-61121	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	COMPRESSOR -B- SUCTION PRESSURE	Bar	COMP SKID	JB-UIA-621	AIR	4-20mA	-	PW400	H	S	IS	2	12,13	1		
LT-61131	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	OIL SEPARATOR LEVEL	%	COMP SKID	JB-UIA-611	AIR	4-20mA	-	PW400	H	S	IS	2	12,13	2		
LT-61151	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	FIELD	UCP-6101	CHILLER LEVEL	%	VESSLS SKID	JB-UIA-641	AIR	4-20mA	-	PW400	H	S	IS	2	12,13	3		
						SPARE											2	12,13	4		
						SPARE											2	12,13	5		
						SPARE											2	12,13	6		
						SPARE											2	12,13	7		

Card Type: Analog OUT 4

TAG		DESCRIPTION			LOCATION	JB No.	SIGNAL CATEGORY	SIGNAL TYPE	RELAY OUTPUT	POWER SUPPLY			RACK	SLOT	CHANNEL		
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PV-61151	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	UCP-6101	FIELD	HOT GAS BYPASS CONTROL VALVE	%	VESSELS SKID	JB-UIA-641	AOR	4-20 mA	-	-	H	S	IS	2	14,15	0		
LV-61151	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	UCP-6101	FIELD	CHILLER LEVEL CONTROL VALVE	%	VESSELS SKID	JB-UIA-641	AOR	4-20 mA	-	-	H	S	IS	2	14,15	1		
TV-61141	Propylene	VD-GPIC-MA-3029-3029-0015	FLOAT/REAL	UCP-6102	FIELD	ECONOMIZER TEMPERATURE CONTROL VALVE	%	VESSELS SKID	JB-UIA-641	AOR	4-20 mA	-	-	H	S	IS	2	14,15	2		
						SPARE				AOR	4-20 mA		-				2	14,15	3		
<p>Note (1)- Barrier converter installed in UCP to convert PT100 Signal to 4-20mA signal</p> <p>ULT003 - PLC I/O LIST COUNT IS PER UNIT</p> <p>AI : Analog Input AO : Analog Input H : Hardwire S : Serial DI: Digital Input DO: Digital Output DCS : Data Control Center MCC : Motor Control Center UCP-6101 : Unit Control Panel LCP : Local Control Station PLC : Programmable Logic Controller PW400 : POWER SUPPLY 400 W This IO List is a document containing list of instrumentation which serve as input or output of control system.</p> <p>AIR: Analog Input Redundancy AOR: Analog Output Redundancy DIR: Digital Input Redundancy DOR: Digital Output Redundancy NO: Normally Open NC: Normally Close NDE: Normally De- Energize NE: Normally Energize</p>																					

IN-02. RTD signals of motors shall be added to IO list if they are not connected to MCC.

Vendor Reply (14-Apr): Please kindly be informed that as per always MAYEKAWA design, Bearing RTD temp. have been already considered in IO list. please be informed that winding RTDs will be monitored in MCC and signals are connected to MCC.