



Toase-eh Park Sanati Gohar Ofogh
Petrochemical Co.
**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Instrument Cable List

Document No.:

Rev. R0

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STYRENE PARK OFFSITE

Document Title: Instrument Cable List

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REVISION RECORD SHEET

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COMPRESSOR RU0001A/B-C-01

No.	Service	Tag No.	Content of signal	SIGNAL Type	IS/NIS	Cable type	Cable size	Gland size	Cable Tag.	From	To	Length (Meter)	Remarks
26	Hot gas solenoid valve	SOV-RU0001A-03	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001A-03	SOV-RU0001A-03	JBD-A-RU0001A-04	10	
27	Evaporator oil drain line.	SOV-RU0001A-02	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001A-02	SOV-RU0001A-02	JBD-A-RU0001A-04	10	
28	Air Cooler motor 2 vibration switch	VS-RU0001A-01A	24Vdc / **D	Digital	NIS	Type 2	01Px2.5mm ²	M20	VS-RU0001A-01A	VS-RU0001A-01A	JBD-A-RU0001A-04	10	
29	Air Cooler motor 3 vibration switch	VS-RU0001A-01B	24Vdc / **D	Digital	NIS	Type 2	01Px2.5mm ²	M20	VS-RU0001A-01B	VS-RU0001A-01B	JBD-A-RU0001A-04	10	
30	Multi cable for JBD-A-RU0001A-04		24Vdc / **D**W	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	12x2.5 mm ²	M32	JBD-A-RU0001A-04-UCP	JBD-A-RU0001A-04	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
31	Oil heater temp. control switch	TS-RU0001A-01A	24Vdc / **D	Digital	NIS								
32	Oil heater Surface and box temp. control switch	TS-RU0001A-01B	24Vdc / **D	Digital	NIS								
33	Multi cable for TS-RU0001A-01		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	04Cx1.5mm ²	M20	TS-RU0001A-01-UCP	RU0001A-H-01	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
34	LCP Switches		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	12Cx1.5 mm ²	M25	RU0001A-LCP-01-UCP	RU0001A-LCP-01	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
35	LCP Switches		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	12Cx1.5 mm ²	M25	RU0001A-LCP-01-UCP	RU0001A-LCP-01	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
36	LCP Switches		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	12Cx1.5 mm ²	M25	RU0001A-LCP-01-UCP	RU0001A-LCP-01	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
37	LCP Lamps		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	12Cx2.5 mm ²	M32	RU0001A-LCP-01-UCP	RU0001A-LCP-01	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
38	UCP to MCC (UCP Digital Output Command signals for main motor,oil pump, condenser :STT,STP, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	15x2x1 mm ²	M32	Hold	RU0001A	MCC	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
39	MCC to UCP (UCP Digital Input Status signals for main motor,oil pump, condenser : Running,Fault, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	15x2x1 mm ²	M32	Hold	MCC	RU0001A	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
40	UCP to MCC (UCP Digital Output Command signals for VFD condenser :STT,STP, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	10x2x1 mm ²	M25	Hold	RU0001A	MCC	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
41	MCC to UCP (UCP Digital Input Status signals for VFD condenser : Running,Fault, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	10x2x1 mm ²	M25	Hold	MCC	RU0001A	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
42	UCP to MCC (Analog signals for VFD condenser, Main motor current)		4 to 20mA / 2-wire	Analogue	NIS	(CU/XLPE/PVC/SW A/PVC) Gray	02Px1 mm ²	M20	Hold	RU0001A	MCC	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
43	Communication with DCS			serial		Ethernet cable			Hold	UCP	DCS	400 m	
44	ESD TRIP Signal	RU0001A-ESD-01	24Vdc / **D	Digital	NIS		01Px2.5mm ²		Hold	RU0001A-ESD-01	UCP	400 m	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
45	UPS Power			Power cable		CU/XLPE/PVC (600/1000) Black	02Cx4mm ²		UPS-RU0001A-1	Instrument PDP	UCP	400 m	By Customer
46	Non-UPS Power			Power cable		CU/XLPE/PVC (600/1000) Black	02Cx4mm ²		NUPS-RU0001A-1	Instrument PDP	UCP	400 m	By Customer



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COMPRESSOR RU0001B-C-01

No.	Service	Tag No.	Content of signal	SIGNAL Type	IS/NIS	Cable type	Cable size	Gland size	Cable Tag.	From	To	Length (Meter)	Remarks
1	Compressor Suction pressure transmitter	PIT-RU0001B-01	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	PIT-RU0001B-01	PIT-RU0001B-01	JBD-A-RU0001B-01	10	
2	Discharge pressure transmitter	PIT-RU0001B-03	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	PIT-RU0001B-03	PIT-RU0001B-03	JBD-A-RU0001B-01	10	
3	Oil header Compressor pressure transmitter	PIT-RU0001B-02	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	PIT-RU0001B-02	PIT-RU0001B-02	JBD-A-RU0001B-01	10	
4	Upstream oil filter pressure transmitter	PIT-RU0001B-05	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	PIT-RU0001B-05	PIT-RU0001B-05	JBD-A-RU0001B-01	10	
5	Downstream oil filter pressure transmitter	PIT-RU0001B-06	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	PIT-RU0001B-06	PIT-RU0001B-06	JBD-A-RU0001B-01	10	
6	Pressure transmitter oil separator	PIT-RU0001B-04	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	PIT-RU0001B-04	PIT-RU0001B-04	JBD-A-RU0001B-01	10	
7	Compressor Suction temperature transmitter	TIT-RU0001B-01	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	TIT-RU0001B-01	TIT-RU0001B-01	JBD-A-RU0001B-01	10	
8	Oil Separator temperature transmitter	TIT-RU0001B-03	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	TIT-RU0001B-03	TIT-RU0001B-03	JBD-A-RU0001B-01	10	
9	Oil header compressor temperature transmitter	TIT-RU0001B-02	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	TIT-RU0001B-02	TIT-RU0001B-02	JBD-A-RU0001B-01	10	
10	Compressor slide valve position sensor	ZE-RU0001B-01	3-wire	Analogue	IS	(CU/XLPE/PVC/SWA/PVC) Blue	01Tx1.5mm ²	M20	ZE-RU0001B-01	ZE-RU0001B-01	JBD-A-RU0001B-01	10	
11	Multi cable for JBD-A-RU0001B-01				IS	(CU/XLPE/PVC/SWA/PVC) Blue	15x2x1 mm ²	M32	JBD-A-RU0001B-01-UCP	JBD-A-RU0001B-01	UCP-RU0001	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
12	Chiller level transmitter	LIT-RU0001B-01	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	LIT-RU0001B-01	LIT-RU0001B-01	JBD-A-RU0001B-03	10	
13	Chiller level control valve	LV-RU0001B-01	4 to 20mA / 2-wire	Analogue	IS	Type 1	01Px1.5mm ²	M20	LV-RU0001B-01	LV-RU0001B-01	JBD-A-RU0001B-03	10	
14	Multi cable for JBD-A-RU0001B-03				IS	(CU/XLPE/PVC/SWA/PVC) Blue	10x2x1 mm ²	M25	JBD-A-RU0001B-03-UCP	JBD-A-RU0001B-03	UCP-RU0001	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
15	Motor Winding U1 temperature element	PTC-RU0001B-13	PTC / 2 wire	PTC									
16	Motor Winding U2 temperature element	PTC-RU0001B-14	PTC / 2 wire	PTC									
17	Motor Winding V1 temperature element	PTC-RU0001B-15	PTC / 2 wire	PTC									
18	Multi cable for COMP A. MAIN MOTOR PTC					(CU/XLPE/PVC/SWA/PVC) Gray	3x2x1.5 mm ²	M20	RU0001B-M-01-MCC	RU0001B-M-01	MCC	200	1-Cable and Gland will be supplied By Customer 2-Selected Cable shall be suitable for M20 Gland 3-Cable size shall be checked and confirmed by Customer
19	Oil separator level switch	LS-RU0001B-01	24Vdc / **W	Digital	NIS	Type3	02Px1.5mm ²	M20	LS-RU0001B-01	LS-RU0001B-01	JBD-A-RU0001B-02	10	
20	Compressor capacity load Return solenoid valve	SOV-RU0001B-01D	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001B-01D	SOV-RU0001B-01D	JBD-A-RU0001B-02	10	
21	Compressor capacity unload supply solenoid valve	SOV-RU0001B-01A	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001B-01A	SOV-RU0001B-01A	JBD-A-RU0001B-02	10	
22	Compressor capacity load supply solenoid valve	SOV-RU0001B-01C	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001B-01C	SOV-RU0001B-01C	JBD-A-RU0001B-02	10	
23	Compressor capacity unload Return solenoid valve	SOV-RU0001B-01E	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001B-01E	SOV-RU0001B-01E	JBD-A-RU0001B-02	10	
24	Multi cable for JBD-A-RU0001B-02		24Vdc / **W	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	12x2.5 mm ²	M32	JBD-A-RU0001B-02-UCP	JBD-A-RU0001B-02	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer



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COMPRESSOR RU0001B-C-01

No.	Service	Tag No.	Content of signal	SIGNAL Type	IS/NIS	Cable type	Cable size	Gland size	Cable Tag.	From	To	Length (Meter)	Remarks
25													
26	Hot gas solenoid valve	SOV-RU0001B-03	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001B-03	SOV-RU0001B-03	JBD-A-RU0001B-04	10	
27	Evaporator oil drain line.	SOV-RU0001B-02	24Vdc / **W	Digital	NIS	Type 2	01Px2.5mm ²	M20	SOV-RU0001B-02	SOV-RU0001B-02	JBD-A-RU0001B-04	10	
28	Air Cooler motor 2 vibration switch	VS-RU0001B-01A	24Vdc / **D	Digital	NIS	Type 2	01Px2.5mm ²	M20	VS-RU0001B-01A	VS-RU0001B-01A	JBD-A-RU0001B-04	10	
29	Air Cooler motor 3 vibration switch	VS-RU0001B-01B	24Vdc / **D	Digital	NIS	Type 2	01Px2.5mm ²	M20	VS-RU0001B-01B	VS-RU0001B-01B	JBD-A-RU0001B-04	10	
30	Multi cable for JBD-A-RU0001B-04		24Vdc / **D**W	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	12x2.5 mm ²	M32	JBD-A-RU0001B-04-UCP	JBD-A-RU0001B-04	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
31	Oil heater temp. control switch	TS-RU0001B-01A	24Vdc / **D	Digital	NIS								
32	Oil heater Surface and box temp. control switch	TS-RU0001B-01B	24Vdc / **D	Digital	NIS								
33	Multi cable for TS-RU0001B-01		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	04Cx1.5mm ²	M20	TS-RU0001B-01-UCP	RU0001B-H-01	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
34	LCP Switches		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	12Cx1.5 mm ²	M25	RU0001B-LCP-01-UCP	RU0001B-LCP-01	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
35	LCP Switches		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	12Cx1.5 mm ²	M25	RU0001B-LCP-01-UCP	RU0001B-LCP-01	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
36	LCP Switches		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	12Cx1.5 mm ²	M25	RU0001B-LCP-01-UCP	RU0001B-LCP-01	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
37	LCP Lamps		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	12Cx2.5 mm ²	M32	RU0001B-LCP-01-UCP	RU0001B-LCP-01	UCP	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
38	UCP to MCC (UCP Digital Output Command signals for main motor,oil pump, condenser :STT,STP, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	15x2x1 mm ²	M32	Hold	RU0001B	MCC	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
39	MCC to UCP (UCP Digital Input Status signals for main motor,oil pump, condenser : Running,Fault, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	15x2x1 mm ²	M32	Hold	MCC	RU0001B	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
40	UCP to MCC (UCP Digital Output Command signals for VFD condenser :STT,STP, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	10x2x1 mm ²	M25	Hold	RU0001B	MCC	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
41	MCC to UCP (UCP Digital Input Status signals for VFD condenser : Running,Fault, ETC)		24Vdc / **D	Digital	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	10x2x1 mm ²	M25	Hold	MCC	RU0001B	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer
42	UCP to MCC (Analog signals for VFD condenser, Main motor current)		4 to 20mA / 2-wire	Analogue	NIS	(CU/XLPE/PVC/SWA/PVC) Gray	02Px1 mm ²	M20	Hold	RU0001B	MCC	400	1-Cable and Gland will be supplied By Customer 2-Cable size shall be checked and confirmed by Customer



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2	DUTY	2 Wire Transmitter,	
3	INSTALLATION LOCATION	OUTDOOR	
4	INSTALLATION METHOD	-	
5	AMBIENT TEMP MIN / MAX	-20 °C / 48 °C	
6	CABLE TECHNICAL DATA		
7	MAKE	LATER	
8	TYPE	As per EN50288-7	
9	CONDUCTORS	Stranded Copper - IEC 60228 class 2	
10	INSULATION	XLPE	
11	CORE / PAIR / TRIAD	Twisted Pair	
12	IDENTIFICATION	Black - white	
13	SCREENING	Collective Aluminium/Maylar tape + tinned copper drain wire	
14	BEDDING	PVC	
15	ARMOUR	Galvanised Steel Wire Armour (SWA)	
16	OUTER JACKET	PVC	
17	OUTER SHEATH COLOUR	Light Blue	
18	CROSS SECTION	1.5 mm ²	
19	NUMBER OF CORES / PARE / TRIADS	1 Pair	
20	MAX. OPERATING VOLTAGE	300 / 500 Volt	
21	MIN. OPERATING TEMPERATURE	-20 °C	
22	MAX. OPERATING TEMPERATURE	+60 °C	
23	CONDUCTOR MAXIMUM TEMPERATURE	+90 °C	
24			
25	INNER SHEATH DIAMETER	Later	
26	OUTER SHEATH DIAMETER	Later	
27			
28	FLAME RETARDANT	IEC60332-1-2 / IEC 60332-3-24 (cat.C)	
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32			
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1	Item			2		
2	DUTY			SOLENOID VALVE		
3	INSTALLATION LOCATION			OUTDOOR		
4	INSTALLATION METHOD			-		
5	AMBIENT TEMP MIN / MAX			-20 °C / 48 °C		
6	CABLE TECHNICAL DATA					
7	MAKE			LATER		
8	TYPE			As per EN50288-7		
9	CONDUCTORS			Stranded Copper - IEC 60228 class 2		
10	INSULATION			XLPE		
11	CORE / PAIR / TRIAD			Pair		
12	IDENTIFICATION			Black - white		
13	SCREENING			NA		
14	BEDDING			PVC		
15	ARMOUR			Galvanised Steel Wire Armour (SWA)		
16	OUTER JACKET			PVC		
17	OUTER SHEATH COLOUR			Gray		
18	CROSS SECTION			2.5 mm ²		
19	NUMBER OF CORES / PARE / TRIADS			1 Pair		
20	MAX. OPERATING VOLTAGE			300 / 500 Volt		
21	MIN. OPERATING TEMPERATURE			-20 °C		
22	MAX. OPERATING TEMPERATURE			+60 °C		
23	CONDUCTOR MAXIMUM TEMPERATURE			+90 °C		
24						
25	INNER SHEATH DIAMETER			Later		
26	OUTER SHEATH DIAMETER			Later		
27						
28	FLAME RETARDANT			IEC60332-1-2 / IEC 60332-3-24 (cat.C)		
29						
30						
31						
32						



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1	Item	3		
2	DUTY	Level Switches		
3	INSTALLATION LOCATION	OUTDOOR		
4	INSTALLATION METHOD	-		
5	AMBIENT TEMP MIN / MAX	-20 °C / 48 °C		
6	CABLE TECHNICAL DATA			
7	MAKE	LATER		
8	TYPE	As per EN50288-7		
9	CONDUCTORS	Stranded Copper - IEC 60228 class 2		
10	INSULATION	XLPE		
11	CORE / PAIR / TRIAD	Twisted Pair		
12	IDENTIFICATION	Black - white		
13	SCREENING	Collective Aluminium/Maylar tape + tinned copper drain wire		
14	BEDDING	PVC		
15	ARMOUR	Galvanised Steel Wire Armour (SWA)		
16	OUTER JACKET	PVC		
17	OUTER SHEATH COLOUR	Gray		
18	CROSS SECTION	1.5 mm ²		
19	NUMBER OF CORES / PARE / TRIADS	2 Pair		
20	MAX. OPERATING VOLTAGE	300 / 500 Volt		
21	MIN. OPERATING TEMPERATURE	-20 °C		
22	MAX. OPERATING TEMPERATURE	+60 °C		
23	CONDUCTOR MAXIMUM TEMPERATURE	+90 °C		
24				
25	INNER SHEATH DIAMETER	Later		
26	OUTER SHEATH DIAMETER	Later		
27				
28	FLAME RETARDANT	IEC60332-1-2 / IEC 60332-3-24 (cat.C)		
29				
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32				