



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



I/O List

Document No. 17735-06

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM I/O List (K020)**

code-2
M. Vakili

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	02-02-2024	Issued for Approval	T.T.	S.K.	J.J.
01	10-11-2023	Issued for Approval	T.T.	S.K.	J.J.

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All signals that cause trip Status should be considered redundant

Discrepancy with PID

Redundancy column should be added

TAG NUMBER	LINE NUMBER	SERVICE DESCRIPTION	INSTRUMENT TYPE	LOCATION	R&ID NUMBER	SYSTEM TYPE	I/O TYPE	SIGNAL TYPE	CALIBRATED ENGINEERING		STATE 0	STATE 1	SET POINT			FROM	TO	PROTOCOL	IS/NIS	NO/NC	DCS/ESD
									RANGE	UNIT			SET POINT L	SET POINT LL	SET POINT H						
320PT-8201	1"-IA-320-01-D42-N	Pressure transmitter package inlet	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	bar(g)			7.5	12	IDAN-820	DCS	HART	NIS		DCS	
320TT-8201	1"-IA-320-01-D42-N	Temperature transmitter package inlet	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	°C			40	50	IDAN-820	DCS	HART			DCS	
320TT-8202	3/4"-IA-320-03-F42-H	Temperature transmitter 1st stage discharge	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	°C			145	165	IDAN-820	DCS	HART			DCS	
320PT-8202	3/4"-IA-320-05-F42-H	Pressure transmitter 2nd stage suction	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	bar(g)			23	24	IDAN-820	DCS	HART			DCS	
320TT-8203	3/4"-IA-320-05-F42-H	Temperature transmitter 2nd stage suction	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	°C			65	70	IDAN-820	DCS	HART			DCS	
320TT-8204	3/4"-IA-320-06-F42-H	Temperature transmitter 2nd stage discharge	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	°C			105	125	IDAN-820	DCS	HART			DCS	
320TT-8205	4"-IA-320-08-D42-N	Temperature transmitter package outlet	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	°C					IDAN-820	DCS	HART			DCS	
320PT-8203	3/4"-IA-320-09-D42-N	Pressure transmitter package outlet	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	bar(g)			25		IDAN-820	DCS	HART			DCS	
320PT-8204	Oil system	Pressure transmitter oil system	TRANSMITTER	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AI	4-20 mA	TBD	bar(g)					IDAN-820	DCS	HART			DCS	
320PCV-8201		Pressure Control Valve Bypass	CONTROL VALVE	FIELD	N-278-VD-6019-PR-PID-0002-01	COMPRESSOR	AO	4-20 mA	TBD	bar(g)					DCS	IDAN-820				DCS	
320-XL-8201		Running Light	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DO	24 VDC	NA/NA		Stopped	Running	-	-	-	-	DCS	300LP-820		DCS	
320-XL-8202		Operational Light	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DO	24 VDC	NA/NA		Operational		-	-	-	-	DCS			DCS	
320-XL-8203		Fault Light	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DO	24 VDC	NA/NA		Healthy	Fault	-	-	-	-	DCS			DCS	
320-XL-8204		Emergency Trip Light	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DO	24 VDC	NA/NA		Healthy	Eme trip	-	-	-	-	DCS			DCS	
320-HS-8201		Start Pushbutton	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DI	24 VDC	NA/NA			Start	-	-	-	-	DCS			NO	
320-HS-8202		Stop Pushbutton	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DI	24 VDC	NA/NA		Stop		-	-	-	-	DCS	300LP-820		NC	
320-HS-8203		Emergency Stop Pushbutton	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DI	24 VDC	NA/NA		ESD	Healthy	-	-	-	-	DCS			NC	
320-HS-8204		Local / Remote Switch	SIGNAL	FIELD	N-278-VD-6019-PR-PID-0002-01	DCS	DI	24 VDC	NA/NA		Local	Remote	-	-	-	-	DCS			NO	

Notes: