INSTRUMENT INDEX FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
00	23/09/2021	For approval	TvT	KP	LdM	

Class: 1 | Phase: P

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TAG NUMBER	SERVICE DESCRIPTION	INSTRUMENT TYPE	LOCATION	P&ID NUMBER	SYSTEM TYPE	I/O TYPE	SIGNAL TYPE	IS/NIS	CALIBRATED RANGE	ENGINEERING UNIT	STATE 0	STATE 1	SET POINT L	SET POINT LL	SET POINT H	SET POINT HH	PROCESS CONNECTION	INSTRUMENT CONNECTION	B&B	TYPE B&B	TW	ISOLATION VALVE	PROTOCOL	WIRING DRAWING NUMBER	DATASHEET NUMBER	HOOK-UP DRAWING NUMBER	MANUFACTURER & MODEL NO.	PANEL OR LOCAL MOUNTED
PDG-71101	Compressor Inlet Strainer Differential Pressure Transmitter	DIFFERENTIAL PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	-100...100	mbar	-	-	-	-	-	-	1/4"NPT-F	-	YES	5-WAY		YES	-	-	17811-12B	17811-388	TBA	LOCAL
PG-71102	Compressor Inlet Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	0...16	bar(a)	-	-	-	-	-	-	1/2"NPT-M	-	YES	2-WAY		YES	-	-	17811-12B	17811-388	TBA	LOCAL
PG-71105	Compressor Upstream After-Cooler Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	1...35	bar(a)	-	-	-	-	-	-	1/2"NPT-M	-	YES	2-WAY		YES	-	-	17811-12B	17811-388	TBA	LOCAL
PG-71106	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	0...6	bar(a)	-	-	-	-	-	-	1/2"NPT-M	-	YES	2-WAY	-	YES	-	-	17811-12B	17811-388	TBA	LOCAL
TG-71104	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-038	-	-	-	-	0...60	°C	-	-	-	-	-	-	1/2"NPT-M	-	-	-	YES	ND	-	-	17811-12B	17811-388	TBA	LOCAL
TW-71104	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300# RF	-	-	-	-	ND	-	-	17811-12B	17811-388	TBA	LOCAL
TG-71103	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-038	-	-	-	-	0...60	°C	-	-	-	-	-	-	1/2"NPT-M	-	-	-	YES	NO	-	-	17811-12B	17811-388	TBA	LOCAL
TW-71103	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300# RF	-	-	-	-	NO	-	-	17811-12B	17811-388	TBA	LOCAL
LG-71101	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	17811-038	-	-	-	-	will be stated later	mm	-	-	-	-	-	-	1/2"NPT	-	-	-	-	NO	-	-	17811-12B	17811-388	TBA	LOCAL
PIT-71103	Compressor Inlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...13,5	bar(a)	-	-	-	6,9	-	8,6	1/2"NPT-M	-	YES	3-WAY	-	YES	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
PIT-71104	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	-1...5	bar(g)	-	-	-	1,5	-	-	1/2"NPT-M	-	YES	3-WAY	-	YES	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
PIT-71107	Compressor Outlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	1...36	bar(a)	-	-	19 (load/stc	18,5	21(unload/stop)	21,5	1/2"NPT-M	-	YES	3-WAY	-	YES	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
TIT-71101	Compressor Inlet Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...80	°C	-	-	-	-	56	-	-	-	-	-	YES	ND	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
TW-71101	Compressor Inlet Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300# RF	1/2"NPT-F	-	-	-	NO	-	-	17811-12B	17811-388	TBA	LOCAL
TIT-71102	Compressor Upstream After-Cooler Air Tempetature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...200	°C	-	-	-	-	-	195	-	-	-	-	YES	ND	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
TW-71102	Compressor Upstream After-Cooler Air Tempetature Transmitter Thermowell	THERMOWELL	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300# RF	1/2"NPT-F	-	-	-	NO	-	-	17811-12B	17811-388	TBA	LOCAL
FIT-71101	Compressor Cooling Water Outlet Water Flow Transmitter	FLOW TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...5	m3/hr	-	-	2,3	-	-	-	to be advised	-	-	-	-	NO	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
VT-71101	Compressor Vibration Level Transmitter	VIBRATION TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	to be advised	mm/s	-	-	-	-	-	8	to be advised	-	-	-	-	NO	HART	17811-05B	17811-12B	17811-388	TBA	LOCAL
XY-71101	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-038	PLC	DO 24VDC	DIGITAL	NIS	-	-	Open	Closed	-	-	-	-	1/4"NPT-F	-	-	-	-	-	-	17811-05B	17811-12B	17811-388	TBA	LOCAL
XY-71102	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-038	PLC	DO 24VDC	DIGITAL	NIS	-	-	Open	Closed	-	-	-	-	1/4"NPT-F	-	-	-	-	-	-	17811-05B	17811-12B	17811-388	TBA	LOCAL
XV-71102	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1/4"NPT-F	-	-	-	-	-	-	17811-05B	17811-45B	17811-388	TBA	LOCAL
PSV-71101	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1" 300# RF	-	-	-	-	-	-	-	17811-45B	-	TBA	LOCAL
PSV-71102	Compressor Cooling Water Outlet Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1" 300# RF	-	-	-	-	-	-	-	17811-45B	-	TBA	LOCAL
HS-715-SD-1	Emergency Shutdown Command	SIGNAL TO/FROM ESD	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	ESD	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XAL-715-2	Common Alarm	SIGNAL TO/FROM ESD	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Alarm	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XS-715	Interlock Switch Stop Compressor	SIGNAL TO/FROM FCS	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Stop	Not_Stop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XCS-715	Time Synchronisation	SIGNAL TO/FROM FCS	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Motor Running	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Not_Running	Running	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Motor Fault	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Fault	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Motor Start/Stop	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DO 24VDC	DIGITAL	-	-	-	Stop	Start	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Heater ON/OFF	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DO 24VDC	DIGITAL	-	-	-	On	Off	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Heater Fault	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Fault	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Heater Running	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Not_Running	Running	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-