


Turbines Mechanical & Instrument Part List

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MODIFICATIONS RECORDING

ISSUE OF MODIF	DATE	WRITTEN BY	CHECKED BY	EVOLUTION OF THE DOCUMENT (Updated pages)	JUSTIFICATION OF THE MODIFICATION
(0)	08-18-16	D. Guillet	G. Flavien	Initial Issue (FDR)	

Turbines T1, T2, & T3 Electrical/Instrumentation

Instrument Tag	Sheet #	Sheet Location	Device Type	Description:	Process range	Manufacturer	Model	Quantity	Power [hp]	Voltage [volts]	Phase #	Current [amps]	Speed [rpm]	Frame [nema]	Component Rating			Displayed
															Range	Accuracy [+/-%fs]	p [psig]	T [F]

Pressure Transducers

PT 224x3 / PT 224x4 / 224x8 / PT 223x2 / PT 221x5 / PT 224x5 / PT 224x6	14 15 16		In-line pressure transmitter			<u>ROSEMOUNT</u>	<u>2051TG3A2B21A5B</u> <u>4M5D4P1Q408</u>	2	0.00136	10.5 to 42.4 Vdc		0.200			-14.7 to 800 psig	0.065	1,600 psi max	-22 to 250	
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Temperature Sensors

TP 224x8 / TP 224x6	14 15 16		Temperature Transmitter			<u>ROSEMOUNT</u>	644HANAJ6M5Q4	2	0.00136	12 to 42.4 Vdc		0.200			-328 to 1562 F	0.03	N/A	-40 to 185	
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Speed sensor

ST 224x3	14 15 16		Speed control sensor		30 to 3000Hz	TIPPKEMPER	PSD-LTD-GD	1	0.00177	24Vdc (30 max)		0.050			100 to 10000 Hz	N/A	N/A	32 to 122	
ST 224x3	14 15 16		F-I converter		30 to 3000Hz	TURCK BANNER	IM21-14-CDTRI	1	0.00408	24 to 250Vdc					100 to 10000 Hz	N/A	N/A	-13 to 140	

Turbine T4 Electrical/Instrumentation

Instrument Tag	Sheet #	Sheet Location	Device Type	Description:	Process range	Manufacturer	Model	Quantity	Power [hp]	Voltage [volts]	Phase #	Current [amps]	Speed [rpm]	Frame [nema]	Component Rating			Displayed
															Range	Accuracy [+/-%fs]	p [psig]	T [F]

Pressure Transducers

1	PT 22483 / PT 22484 / 22488 / PT 22382 / PT 22185 / PT 22485 / PT 22486	17	In-line pressure transmitter			ROSEMOUNT	2051TG3A2B21AS5B4M5D4P1Q4Q8	7	0.00136	10.5 to 42.4 Vdc		0.200			-14.7 to 800 psig	0.065	1,600 psi max	-22 to 250	
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Temperature Sensors

1	TP 22488 / TP 22486	17	Temperature Transmitter DIN A Head Mount - Single Sensor Input 4-20 mA with digital signal based on HART protocol			ROSEMOUNT	644HANAJ6M5Q4	2	0.00136	12 to 42.4 Vdc		0.200			-328 to 1562 F	0.03	N/A	-40 to 185	
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Speed sensor

1	ST 22483	17	Speed control sensor		30 to 3000Hz	TIPPKEMPER	PSD-LTD-GD	1	0.00177	24Vdc (30 max)		0.050			100 to 10000 Hz	N/A	N/A	32 to 122	
2	ST 22483	17	F-I converter		30 to 3000Hz	TURCK BANNER	IM21-14-CDTRI	1	0.00408	24 to 250Vdc					100 to 10000 Hz	N/A	N/A	-13 to 140	