

TEMPERATURE TRANSMITTER

RAIL MOUNTED

4-WIRE, ISOLATED, VOLTAGE OUTPUT

PERFORMANCE SPECIFICATIONS			
Input Accuracy.	RTD: $\pm 0.18^{\circ}\text{F}$ Thermocouple, Type E: $\pm 0.36^{\circ}\text{F}$ Thermocouple, Type J: $\pm 0.45^{\circ}\text{F}$ Thermocouple, Type K: $\pm 0.54^{\circ}\text{F}$	<u>Conformance Range</u>	-328°F to $+1562^{\circ}\text{F}$ -274°F to $+1832^{\circ}\text{F}$ -292°F to $+1400^{\circ}\text{F}$ -238°F to $+2498^{\circ}\text{F}$
Output Accuracy.	RTD and Single Point Thermocouples: $\pm 0.01\%$ of Input Span Setting + Input Accuracy Multi-Point Thermocouples: $\pm 0.01\%$ of Input Span + Input Accuracy + Averaging Circuit Accuracy Averaging Circuit Accuracy (%): $.02 \times (\text{Temp Gradient } ^{\circ}\text{F}) \times 100$ (Transmitter Span $^{\circ}\text{F}$)		
Cold Junction Reference Accuracy.	$\pm 0.81^{\circ}\text{F}$ (T/C Inputs only)		
Isolation.	1000 Vrms input to output to case (Isolated Model only). 1500 Vrms between Power and Input. 1500 Vrms between Power and Output.		
Input Over-range Protection.	$\pm 5\text{VDC}$ for Voltage.		
Input Power.	24VDC $\pm 10\%$, 117VAC $\pm 10\%$, 230VAC $\pm 10\%$.		
Power Consumption.	3W max		
Input Impedance.	(T/C) 40M ohms		
Burnout Protection.	Total Sensor Diagnostics user-selected via Windows configuration software; upscale to 24mA (std) or downscale to 3.6mA. Applies when all sensors in the temperature probe are burned out.		
Output Limiting.	-0.2V and 10.5V input over-range, -0.5V and 11.0V for input sensor failure or broken wire.		
RTD Lead Wire Resistance Maximum.	RTD Resistance + 2 times the lead wire resistance must be less than 4000 Ω . Recommend <35 Ω per wire for 3-wire RTD inputs.		
AMBIENT CONDITIONS			
Operating and Storage Range.	-40°F to $+185^{\circ}\text{F}$		
Relative Humidity.	0-95%, non-condensing.		
Effect of Ambient Temp on Accuracy.	$\pm 0.015\%$ of span per $^{\circ}\text{F}$ change, max. ($+0.001\%$ of Ω reading for RTD inputs).		
Effect of Ambient Temp on Cold Junction Compensation.	$\pm 0.005^{\circ}\text{F}$ per $^{\circ}\text{F}$ change.		
ADJUSTMENTS			
	All settings made using Windows based configuration program, then stored in non-volatile FRAM memory. Cable, software disk and instruction manual included with each transmitter.		
OPTIONS			
	Output. <input type="checkbox"/> 1-5VDC <input type="checkbox"/> 2-10VDC		
<p style="text-align: center;">WIRING DETAIL RTD</p>		<p style="text-align: center;">WIRING DETAIL 1-PT. THERMOCOUPLE</p>	