SUBMITTAL SHEET

TEMPERATURE TRANSMITTER
2-WIRE, LOOP POWER, 4-20mA

PERFORMANCE SPECIFICATIONS

				Conformance Range
Input Accuracy.	RTD:	±0.04%	@ 77ºF	–328ºF to +1562ºF
	Thermocouple, Type E:	±0.022%	of Conformance Range	–274ºF to +1832ºF
	Thermocouple, Type J:	±0.03%	of Conformance Range	–292ºF to +1418ºF
	Thermocouple, Type K:	±0.02%	of Conformance Range	–238ºF to +2502ºF

Output Accuracy. RTD and Single Point Thermocouples: ±0.03% of Input Span Setting + Input Accuracy
Multi-Point Thermocouples: ±0.03% of Input Span + Input Accuracy + Averaging Circuit Accuracy
Averaging Circuit Accuracy (%): $\frac{.02 \times (\text{Temp Gradient ºF})}{(\text{Transmitter Span ºF})} \times 100$

Cold Junction Reference Accuracy. ±0.045%

Isolation. 1500 Vrms input to output to case (Isolated Model only).

Linearity. 0.1% of span, within rated ranges.

Over-Voltage Protection. 4V max (Input), 48V max (Output and Reverse Polarity protection on Output).

Load Capability. 500Ω @ 24V, typical.
Non-Isolated Model: $\frac{\text{Supply Voltage - 7V}}{.024A} = \Omega$ Isolated Model: $\frac{\text{Supply Voltage - 10V}}{.024A} = \Omega$

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 Current Limiting. 21.4mA for input over-range; 23.6mA for sensor failure or broken wire.

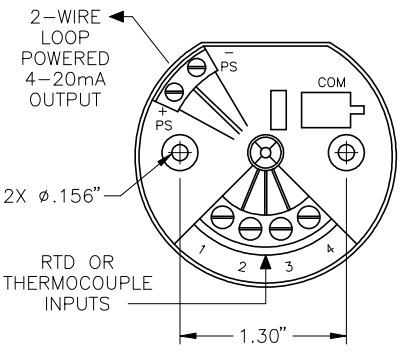
RTD Lead Wire Resistance Maximum. RTD Resistance + 2 times the lead wire resistance must be less than 4000Ω. Recommend <35Ω per wire for 3-wire RTD inputs.

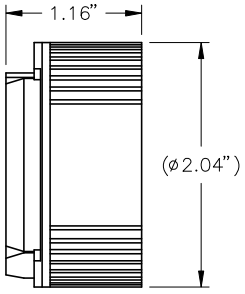
AMBIENT CONDITIONS

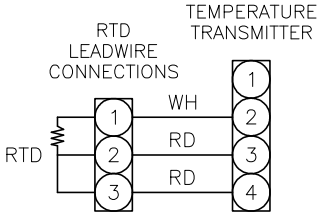
Operating and Storage Range.	–40ºF to +185ºF
Relative Humidity.	0-95%, non-condensing.
Effect of Ambient Temp on Accuracy.	±0.015% of span per ºF change, max. (+0.001% of Ω reading for RTD inputs).
Effect of Ambient Temp on Cold Junction Compensation.	±0.015ºF per ºF change.

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.

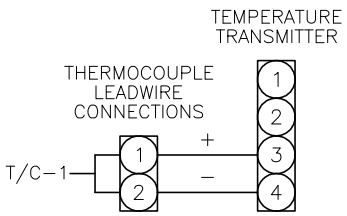
OPTIONS **Transmitter Type.** ❑ Non-Isolated (standard) ❑ Optically Isolated







WIRING DETAIL
RTD



WIRING DETAIL
1–PT. THERMOCOUPLE

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