Direct Immersion RTD Probe– Process Threaded Fitting



Variety of Configurations Single and Dual Elements Stainless Steel Case Oil Resistant Pressure Resistant Custom Designs Available



The Direct Immersion RTD Probe-

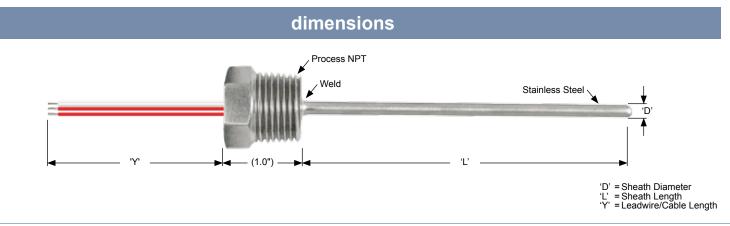
Process Threaded Fitting is constructed with a stainless steel sheath and a welded connection. The welded connection is available in 1/8" NPT, 1/4" NPT, 3/8" NPT, 1/2" NPT or 3/4" NPT. The standard connection has a single process thread hex fitting. A reverse thread option is available, with a single control thread hex fitting. The sensors are available with single or dual elements. These sensors are ideal for the process industry where immersion in the application is essential.

FEATURES

- Sheath Styles: »Stainless Steel
- Elements, Single and Dual: »Platinum, Copper, Nickel
- Sheath Diameters: »0.125", 0.188", 0.250"
- · Leadwire/Cable Options

APPLICATIONS

- Process
- Aerospace
- Flow
- Hot Melt



Direct Immersion RTD Probe– Process Threaded Fitting

performance specifications

Repeatability:

Less than ± .06% change in ice point resistance after 10 consecutive cycles between ice point and 250°C

Long Term Stability:

Less than \pm .2% ice point resistance shift after 1,000 hours at 250°C

Self Heating:

10 mW/C in water moving 3 feet/sec

Pressure Rating:

1,500 psi

Insulation Resistance:

1,000 megohms @ 500 V, leads to case

Vibration:

Withstands 5 to 500 Hz at 3 g-level peak for 3 hours. Per ASTM E 644, Sec. 10.

Shock:

Withstands 50 g-level peak sine was shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

RTD Temperature Accuracy Specifications:

Element	TCR	Standard Tolerances at 0°C			
Material		±.06%	±.12%	±.2%	±.5%
Platinum	0.00385	0.15°C, 0.06Ω	0.30°C, 0.12Ω	0.50°C, 0.19Ω	1.20°C, 0.46Ω
Platinum	0.00392	N/A	N/A	N/A	1.20°C, 0.46Ω
Copper	0.00427	N/A	N/A	0.71°C, 0.028Ω	1.49°C, 0.058Ω
Nickel	0.00672	N/A	N/A	N/A	0.85°C, 0.68Ω

ordering info

Direct Immersion RTD Probe–Process Threaded Fitting							
Model	Temperature Range						
111M 111H 111F	Moderate: -50 to 250°C (-58 to 482°F) High: -50 to 500°C (-58 to 932°F) Full: -200 to 500°C (-328 to 932°F)						
Model	Element	Accuracy	Temperature Coefficient				
P2A P2B P2C P6B G2C C1D N3C	Platinum Platinum Platinum Platinum Copper Nickel	100 Ohm ±.06% at 0°C 100 Ohm ±.12% at 0°C 100 Ohm ±.5% at 0°C 1,000 Ohm ±.12% at 0°C 100 Ohm ±.5% at 0°C 10 Ohm ±.2% at 25°C 120 Ohm ±.5% at 0°C	.00385 .00385 .00385 .00385 .00392 .00427 (Model 111M Only) .00672 (Model 111M Only)				
Model	Leadwires, Element Configuration Typical Color Code						
3S 4S 3D	Three Wire, Sing Four Wire, Sing Three Wire, Dua	e al	Red/Red/White Red/Red/White/White Red/Red/White // Black/Green/Green				
Model	'L' Sheath Length						
	Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"						
Model A B C	'D' Sheath Diameter .125" Diameter (Single Element Only) (M Only) .188" Diameter .250" Diameter						
Model	Process Threads						
1 2 3 4 5	1/8" NPT 1/4" NPT 3/8" NPT 1/2" NPT 3/4" NPT						
Model	'Y' Leadwire/Cable Options						
N W	No Options, Stranded TFE Leadwires (36.0" Standard) Leadwire Options						
Model		Additional Options (Leave Code Blank if Not Required)					
R	Reverse Thread, Control Threaded Hex						

联系方式



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