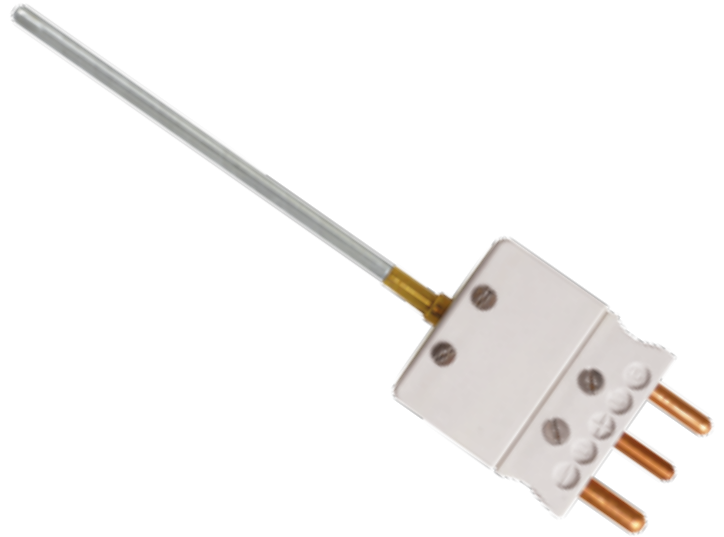


Variety of Configurations
Single and Dual Elements
Stainless Steel Case



The **RTD Probe–Plug and Jack Connector** is constructed with a Stainless Steel case. The sensing element is embedded into the tip of the sheath. With the element located in the tip of the case this is the area that needs to be in contact with the process to obtain correct temperature measurement. Fittings associated with the probe designs are related to the mounting technique required by your application. These sensors can be utilized in many different industries and applications. Probe sensors are ideal for immersion in processes.

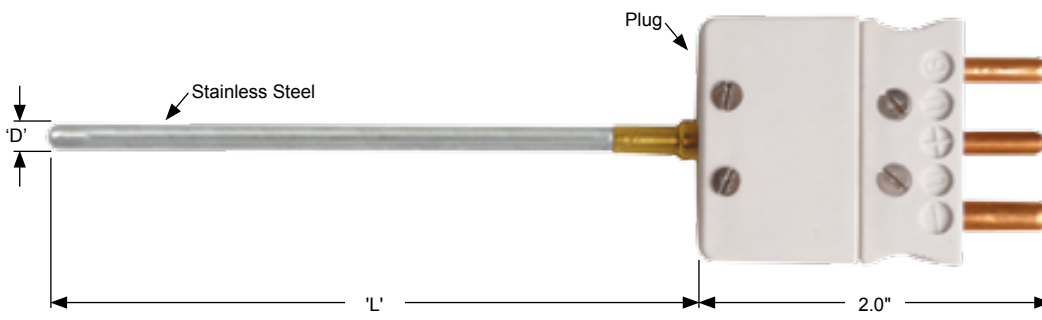
FEATURES

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

APPLICATIONS

- Process

dimensions



RTD Probe–Plug and Jack Connector

performance specifications

Repeatability:

Less than $\pm .06\%$ 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 wave shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

RTD Temperature Accuracy Specifications:

Element Material	TCR	Standard Tolerances at 0°C			
		$\pm .06\%$	$\pm .12\%$	$\pm .2\%$	$\pm .5\%$
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

RTD Probe–Plug and Jack Connector

Model	Temperature Range		
102M	Moderate: -50 to 250°C (-58 to 482°F)		
102H	High: -50 to 500°C (-58 to 932°F)		
102F	Full: -200 to 500°C (-328 to 932°F)		
Model	Element	Accuracy	Temperature Coefficient
P2A	Platinum	100 Ohm $\pm .06\%$ at 0°C	.00385
P2B	Platinum	100 Ohm $\pm .12\%$ at 0°C	.00385
P2C	Platinum	100 Ohm $\pm .5\%$ at 0°C	.00385
P6B	Platinum	1,000 Ohm $\pm .12\%$ at 0°C	.00385
G2C	Platinum	100 Ohm $\pm .5\%$ at 0°C	.00392
C1D	Copper	10 Ohm $\pm .2\%$ at 25°C	.00427 (Model 102M Only)
N3C	Nickel	120 Ohm $\pm .5\%$ at 0°C	.00672 (Model 102M Only)
Model	Leadwires, Element Configuration	Typical Color Code	
3S	Three Wire, Single	Red/Red/White	
3D	Three Wire, Dual	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	'D' Sheath Diameter		
A	.125" Diameter (Model 102M and Single Element Only)		
B	.188" Diameter (Model 102M and Single Element Only)		
C	.250" Diameter (Standard Plug and Jack Sizes Only)		
Model	Connector Options		
1	Plug		
2	Jack		
3	Plug and Jack		
4	Miniature Plug		
5	Miniature Jack		
6	Miniature Plug and Jack		
Model	Pin Style		
H	Hollow (Standard)		
S	Solid		
F	Miniature Flat Solid		

联系方式



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