RTD Probe–Compression Fitting



Variety of Configurations Single and Dual Elements Stainless Steel Case

Custom Designs Available with:

- Degree Specific Case Bends
- Fast Response Time
- Connector Options
- Special Cable or Leadwires



The RTD Probe-Compression Fitting

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.

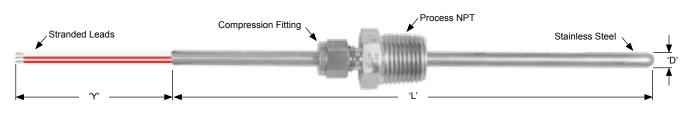
FEATURES

- 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



- 'D' = Sheath Diameter 'L' = Sheath Length 'Y' = Leadwire/Cable Length

RTD Probe-Compression 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 ± .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 Material	TCR	Standard Tolerances at 0°C			
		±.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

	be-Compression					
Model		Temperature Range				
101M		: -50 to 250°C (-58 to 482°F)				
101H		500°C (-58 to 932°F)				
101F		to 500°C (-328 to 932°F)				
Model	Element	Accuracy	Temperature Coefficient			
P2A	Platinum	100 Ohm ±.06% at 0°C	.00385			
P2B	Platinum	100 Ohm ±.12% at 0°C	.00385			
P2C	Platinum	100 Ohm ±.5% at 0°C	.00385			
P6B	Platinum	1,000 Ohm ±.12% at 0°C	.00385			
G2C	Platinum	100 Ohm ±.5% at 0°C	.00392			
C1D	Copper	10 Ohm ±.2% at 25°C	.00427 (Model 100 M Only)			
N3C	Nickel	120 Ohm ±.5% at 0°C	.00672 (Model 100 M Only)			
Model		nent Configuration	Typical Color Code			
3S	Three Wire, Single		Red/Red/White			
3D	Three Wire, Dual		Red/Red/White // Black/Green/Green			
4D	Four Wire, Dual Red/Red/White/White // Black/Black/Green/Gree					
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 (Single Element Only) (1/8" or 1/4" NPT Only)					
В	.188" Diameter (1/8" or 1/4" NPT Only)					
С	.250" Diameter					
Model	Fitting Thread Size					
1	1/8" NPT					
2	1/4" NPT					
3	3/8" NPT					
4	1/2" NPT					
5 Model	3/4" NPT					
	Compression Fitting Material 316 SS (TFE Ferrule Included)					
A B	316 SS (SS Ferrule Included)					
	Brass (Brass Ferrule Included)					
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C Model		hla Ontions				
Model N	'Y' Leadwire/Cal	ble Options nded TFE Leadwires (36.0" Standard)				

联系方式



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