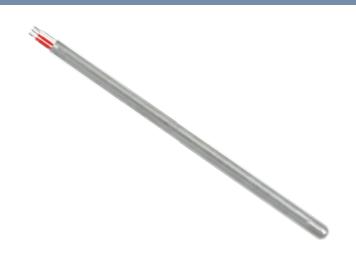
RTD Probe



Variety of Configurations Single and Dual Elements Stainless Steel Case

Custom Designs Available with:

- Degree Specific Case Bends
- Fast Response Time
- Cut-to-length Cases
- Connector Options
- Special Cable or Leadwires



The RTD Probe 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
- Aerospace
- Defense
- Hot Melt

dimensions



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

RTD Probe

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

RTD Probe							
Model	Temperature Range						
100M	Moderate:	te: -50 to 250°C (-58 to 482°F)					
100H	High:	-50 to 500°C (-58 to 932°F)					
100F	Full:	-200 to 500°C (-3	28 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	Leadwires, Element Configuration			Typical Color Code			
3S	Three Wire			Red/Red/White			
3D	Three Wire			Red/Red/White // Black/Green/Green			
4D	Four Wire,			Red/Red/White/White // Black/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 (Single Element Only)						
В	.188" Diameter						
С	.250" Diameter						
Model	'Y' Leadwire/Cable Options						
N		No Options, Stranded TFE Leadwires (36.0" Standard)					
W	Leadwire Options						

联系方式



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