

Miniature RTD Probe

Variety of Configurations
Miniature Size
Fast Response Time



The **Miniature RTD Probe** is a small, tubular, tip sensitive sensors in which the sensing element is embedded in either an aluminum or stainless steel case. They are ideal for use in small applications, as well as a faster time response.

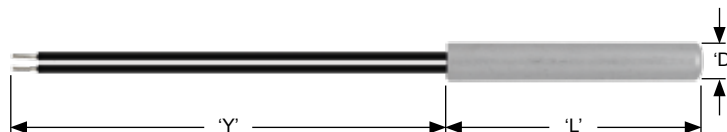
FEATURES

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

APPLICATIONS

- Process
- Hot Melt

dimensions



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

Miniature RTD Probe

performance specifications

Time Constant (typical in 3 ft/sec moving water):

RTD: Stainless Steel Sheath
Single Element: 2.0 seconds
Dual Element: 3.0 seconds

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

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
Nickel	0.00672	N/A	N/A	N/A	0.85°C, 0.68Ω

ordering info

Miniature RTD Probe

Model	Temperature Range		
620M	Moderate: -50 to 250°C (-58 to 482°F)		
Model	Element	Accuracy	Temperature Coefficient
P2B	Platinum	100 Ohm $\pm .12\%$ at 0°C	.00385
P2C	Platinum	100 Ohm $\pm .5\%$ at 0°C	.00385
N3C	Nickel	120 Ohm $\pm .5\%$ at 0°C	.00672
Model	Leadwires, Element Configuration		
2S	Two Wire, Single		
3S	Three Wire, Single		
Model	Leadwires, Typical Color Code		
BB	Black/Black		
RR	Red/Red		
RRW	Red/Red/White		
Model	'L' Sheath Length		
STD	'L' = 1.25" / 'D' = .188" / Clear Anodized Aluminum Sheath Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"		
Model	Sheath Diameter	Sheath Material	
A	.125"	Stainless Steel	
B	.188"	Stainless Steel (Exception: STD = Aluminum)	
C	.250"	Stainless Steel	
Model	'Y' Leadwire Length		
---	Define 'Y' Length in Inches (12 = 12.0")		
Model	Leadwire Size (AWG)		
22	22 AWG		
26	26 AWG		
Model	'Y' Leadwire/Cable Options		
N	No Options, Stranded PFA Leadwires (36.0" Standard)		
W	Leadwire Options		

联系方式



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