



MEAS SPRING LOADED RTD PROBE-BAYONET

- Spring Action Bayonet Fitting
- Variety of Configurations
- Single or Dual Element
- Stainless Steel Case

The Spring Loaded RTD Probe–Bayonet is constructed with a stainless steel sheath and a bayonet fitting. Bayonet mounting provides a simple and inexpensive spring loaded option for installing probes where a fluid seal is not required. We also offer a 1/8" NPT mounting adaptor to assist with locking the sensor in position.

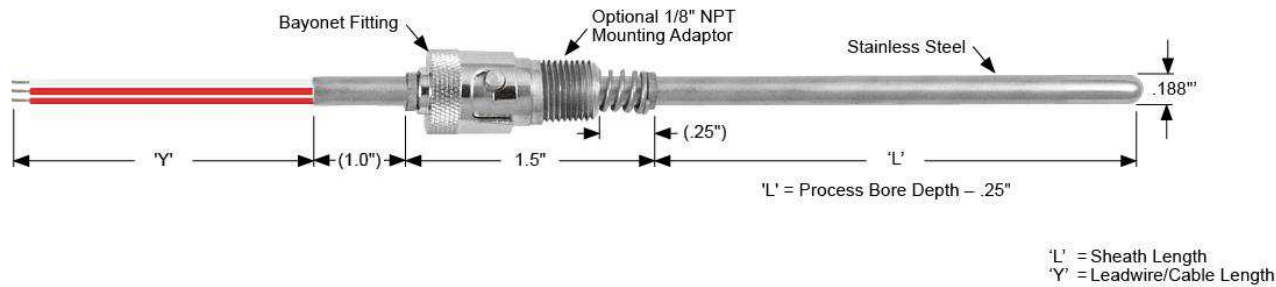
Features

- Sheath Styles:
 - » Stainless Steel
- Elements:
 - » Platinum, Copper, Nickel
- Sheath Diameter:
 - » 0.188"
- Leadwire/Cable Options

Applications

- Process

Dimensions



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 (sheath tip only)

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 Information

SPRING LOADED RTD PROBE-BAYONET			
Model	Temperature Range		
122M	Moderate: -50 to 250°C (-58 to 482°F)		
122H	High: -50 to 500°C (-58 to 932°F)		
122F	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 122M Only)
N3C	Nickel	120 Ohm $\pm$.5% at 0°C	.00672 (Model 122M 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
4D	Four Wire, Dual		Red/Red/White/White // Black/Black/Green/Green
Model	'L' Immersion Length		
---	Define 'L' Length in Inches Note: Minimum 1.5" / Maximum 36.0" Example: (12.0 = 12.0"; 6.75 = 6.75")		
Model	'Y' Leadwire/Cable Options		
N	No Options, Stranded TFE Leadwires (36.0" Standard)		
W	Leadwire Options		
Model	Additional Options (Leave Code Blank if Not Required)		
A	1/8" NPT Mounting Adaptor Option		

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