

MEAS POINT SENSING RTD PROBE

- Variety of Configurations
- Tip Sensitive
- Quick Time Response
- Single Element
- Cable or Leadwire Options

The Point Sensing RTD Probe is constructed with a rigid stainless steel sheath with an element embedded into an aluminum tip. The aluminum tip provides faster time response. These sensors are typically designed for use in plenums and ducts within HVAC systems. They can also be utilized whenever a quick time response in a non-corrosive low pressured environment is needed.

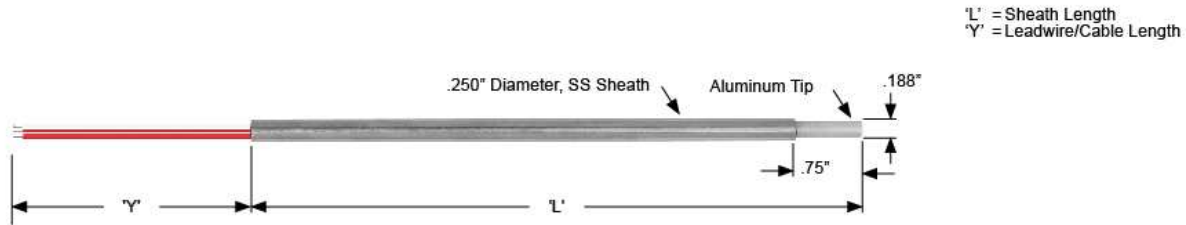
Features

- Sheath Styles:
 - » Rigid Stainless Steel
- Elements, Single:
 - » Platinum
- Sheath Diameter:
 - » Stem: .250"
 - » Tip: .188"
- Leadwire/Cable Options

Applications

- HVACR

Dimensions



Performance Specifications

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

RTD: Stainless Steel Sheath
Single Element: 2.0 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

Ordering Information

POINT SENSING RTD PROBE			
Model	Sheath Style	Temperature Range	
500M	Standard Stainless Steel with Aluminum Tip	-50 to 250°C (-58 to 482°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
Model	Leadwires, Element Configuration	Typical Color Code	
2S	Two Wire, Single	Red/White	
3S	Three Wire, Single	Red/Red/White	
4S	Four Wire, Single	Red/Red/White/White	
Model	'L' Sheath Length		
---	Define 'L' Length in Inches Example: (12.0 = 12.0"; 6.5 = 6.5")		
Model	'Y' Leadwire/Cable Options		
N	No Options, Stranded TFE Leadwires (36.0" Standard)		
W	Leadwire Options		

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