

Point Sensing RTD Probe— Process Threaded Fitting



Variety of Configurations

1/2" NPT Fitting

Tip Sensitive

Quick Time Response

Single Element

Optional Reverse/Control Thread

Cable or Leadwire Options



The **Point Sensing RTD Probe—Process Threaded Fitting** 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.

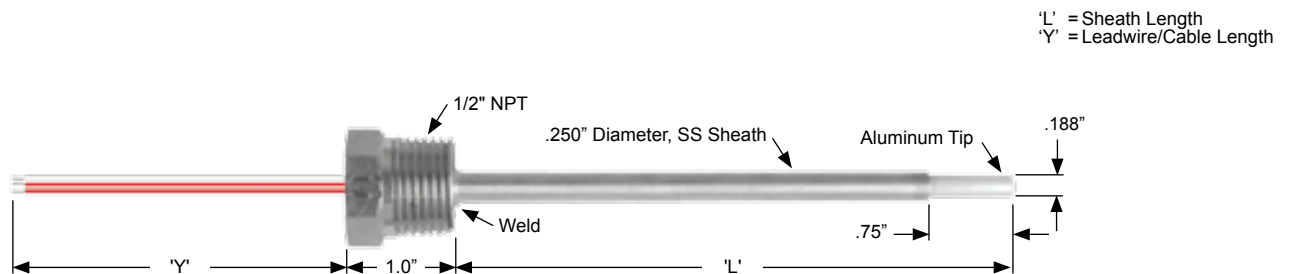
FEATURES

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

APPLICATIONS

- HVAC

dimensions



Point Sensing RTD Probe— Process Threaded Fitting

performance specifications

Insulation Resistance:

Single Element:
1,000 megohms @ 500 VDC, leads to case

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

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

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 info

Point Sensing RTD Probe—Process Threaded Fitting			
Model	Sheath Style		Temperature Range
503M	Standard Stainless Steel with Aluminum Tip		-50 to 250°C (-58 to 482°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
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 (12 = 12.0")		
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)		
R	Reverse Thread, Control Threaded Hex		

联系方式



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