

MEAS AVERAGING RTD PROBE

- Averages Temperature
- Flexible Sheath
- Three Sheath Styles Available

The Averaging RTD Probe is designed for use in and around intake manifolds and heating/cooling coils in HVAC systems. The flexible sheath has a sensitive area that is equal to its overall length. This provides an average temperature of the air as it moves through the system. Acquiring the average air temperature over a large area of airflow can provide more consistent temperature control throughout the system. This sensor also eliminates the need for multiple sensors and instrumentation. Mounting these sensors can easily be achieved by using either our fixed or adjustable fittings. Connection heads and conduit boxes are available for a seamless transition to instrumentation.

Performance Specifications

Insulation Resistance:

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

Temperature Range:

-100 to 200°C (-148 to 392°F)

Minimum Bend Radius:

Stainless Steel: 9.0" Radius

Copper: 6.0" Radius,

Aluminum: 8.0" Radius

Element Wire:

Simulated Platinum

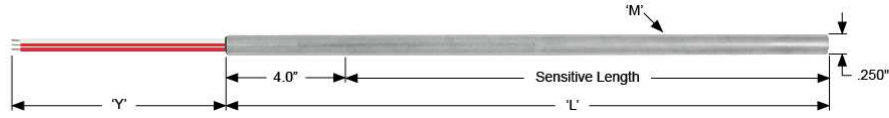
Features

- Sheath Styles:
 - » Stainless Steel, Copper, Aluminum
- Elements, Single:
 - » Platinum or Simulated Platinum
- Sheath Diameter:
 - » 0.250"

Applications

- HVACR

Dimensions



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

Ordering Information

AVERAGING RTD PROBE			
Model	Temperature Range		
510M	Moderate: -100 to 200°C (-148 to 392°F)		
Model	Element	Accuracy	Temperature Coefficient
P2B	Platinum	100 Ohm ±.12% at 0°C	.00385 (Model P2B Maximum Sheath Length 36.0")
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: (120.00 = 120.0"; 38.25 = 38.25") Maximum Length of 1,200.00"		
Model	'M' Sheath Material		
A	Stainless Steel		
B	Copper		
C	Aluminum		
Model	'Y' Leadwire/Cable Options		
N	No Options, Stranded PTFE Leadwires (36.0" Standard)		
W	Leadwire Options		

RTD TEMPERATURE ACCURACY SPECIFICATIONS:

Element Material	TCR	Standard Tolerances at 0°C	
		±.12%	±.5%
Platinum	0.00385	0.30°C, 0.12Ω	1.20°C, 0.46Ω

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