

Spring Loaded RTD Probe— Twin Threaded Fitting



Ideal for Thermowell Applications
1/2" x 1/2" NPT Threaded Fitting
Variety of Configurations
Single and Dual Elements
Stainless Steel Case

Custom Designs Available with:

- Connection Heads
- Transmitters



The **Spring Loaded RTD Probe—Twin Threaded Fitting** is constructed with a stainless steel sheath and utilize a spring loaded fitting to provide positive contact between the tip and the process. Positive contact can decrease the time response of the sensor as well as provide a more consistent temperature reading. Our crimped twin threaded hex fitting sensors are generally designed for use with thermowells, however they can be used in any application that requires the spring action. The dual threaded fitting also allows the use of a connection head.

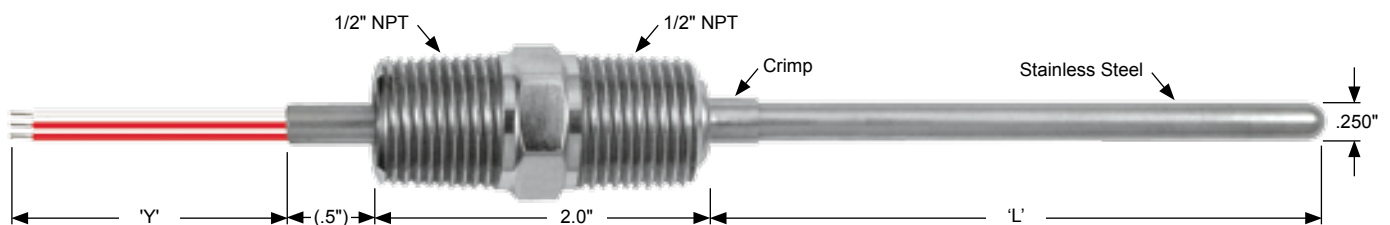
FEATURES

- Sheath Styles:
 - » Stainless Steel
- Elements, Single and Dual:
 - » Platinum, Copper, Nickel
- Sheath Diameters:
 - » 0.250"
- Leadwire/Cable Options

APPLICATIONS

- Process

dimensions



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

Spring Loaded RTD Probe—Twin Threaded Fitting

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

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 info

Spring Loaded RTD Probe—Twin Threaded Fitting

Model Temperature Range

121M Moderate: -50 to 250°C (-58 to 482°F)
 121H High: -50 to 500°C (-58 to 932°F)
 121F 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 121M Only)
 N3C Nickel 120 Ohm $\pm .5\%$ at 0°C .00672 (Model 121M 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' Sheath Length

--- Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"

Model Connection Head

N No Connection Head
 A Stainless Steel
 B Aluminum
 C Polypropylene (Model 121M Only)
 D Cast Iron
 G Small Stainless Steel

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)

T Transmitter Option

联系方式



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