

Spring Loaded RTD Probe

Variety of Configurations
 Single and Dual Elements
 Stainless Steel Case



The **Spring Loaded RTD Probe** is constructed with a stainless steel sheath and utilize a spring 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.

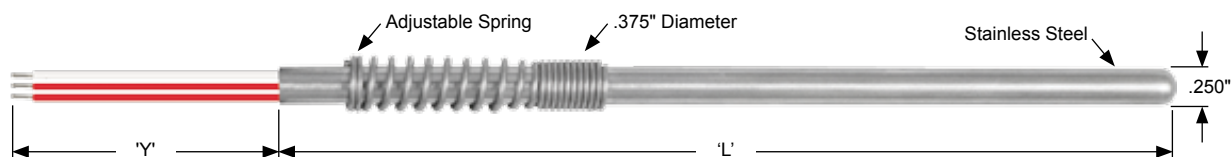
FEATURES

- 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

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

Model Temperature Range

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

Model Leadwires, Element Configuration

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 'Y' Leadwire/Cable Options

N No Options, Stranded TFE Leadwires (36.0" Standard)
W Leadwire Options

联系方式



深圳市亿为测控电子有限公司
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.

广东省深圳市南山区创业路怡海广场东座2407 邮编：518000

电话：+86 755 2641 9890 传真：+86 755 2641 9680

电子邮箱：sales@bill-well.com