



MEAS TIP SENSITIVE BEARING RTD PROBE- BAYONET

- Variety of Configurations
- Fast Response
- Tip Sensitive
- Single and Dual Elements
- Custom Designs

The Tip Sensitive Bearing RTD–Bayonet consists of a bearing probe and bayonet holder. Bayonet mounting provides a simple and inexpensive spring loaded option for installing probes where a fluid seal is not required. We also offer a 1/8" NPT mounting adaptor to assist with locking the sensor in position.

Bearing sensors in which the sensing element is encased in a Copper alloy tip. This allows for increased accuracy and sensitivity to temperature changes at the point of contact in bearings. Inserted at an opening on the bearing housing, they are used in electric motors and generators for continuous sensing of the bearing temperature.

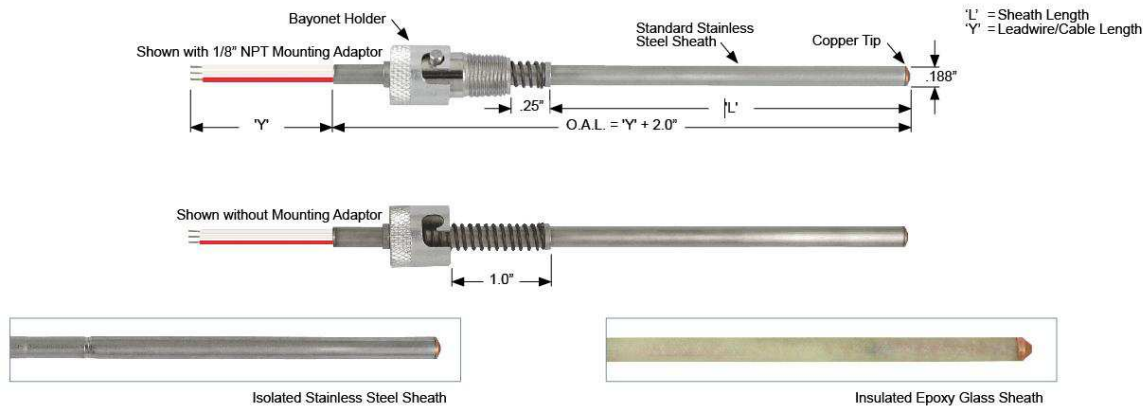
Features

- Variety Sheath Styles:
 - » Stainless Steel, Isolated Stainless Steel, Insulated Epoxy Glass
 - » Copper Tip
- Elements, Single and Dual:
 - » Platinum, Copper, Nickel
- Sheath Diameters:
 - » 0.188"
- Leadwire/Cable Options

Applications

- Electric Motors
- Generators

Dimensions



Performance Specifications

Insulation Resistance:

Single or Dual Elements:
1,000 megohms @ 500 VDC, leads to case
Dual Elements:
100 megohms @ 50 VDC between elements

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

Stainless Steel Sheath and Isolated Stainless Steel Sheath:
Single Element: 2.0 seconds
Dual Element: 3.0 seconds
Insulated Epoxy Glass Sheath: 2.5 seconds

Pressure Rating:

Standard Stainless Steel Sheath: 100 psi (6.9 bar)
Isolated Stainless Steel Sheath: 100 psi (6.9 bar)
Insulated Epoxy Glass Sheath: 30 psi (2.1 bar)

RTD TEMPERATURE ACCURACY SPECIFICATIONS:

Element Material	TCR	Standard Tolerances at 0°C		
		±.12%	±.2%	±.5%
Platinum	0.00385	0.30°C, 0.12Ω	N/A	1.20°C, 0.46Ω
Platinum	0.00392	N/A	N/A	1.20°C, 0.46Ω
Copper	0.00427	N/A	0.71°C, 0.028Ω	1.49°C, 0.058Ω
Nickel	0.00672	N/A	N/A	0.85°C, 0.68Ω

Ordering Information

TIP SENSITIVE BEARING RTD PROBE-BAYONET			
Model	Sheath Style	Temperature Range	Minimum Immersion Length
312A	Insulated Epoxy Glass	-50 to 155°C (-58 to 311°F)	1.50" Minimum
312B	Standard Stainless Steel	-50 to 250°C (-58 to 482°F)	1.50" Minimum
312C	Isolated Stainless Steel	-50 to 250°C (-58 to 482°F)	4.0" Minimum
Model	Element	Accuracy	Temperature Coefficient
P2B	Platinum	100 Ohm \pm .12% at 0°C	.00385
P2C	Platinum	100 Ohm \pm .5% at 0°C	.00385
G2C	Platinum	100 Ohm \pm .5% at 0°C	.00392
C1D	Copper	10 Ohm \pm .2% at 25°C	.00427
N3C	Nickel	120 Ohm \pm .5% at 0°C	.00672
Model	Leadwires, Element Configuration		Typical Color Code
3S	Three Wire, Single		Red/White/White
3D	Three Wire, Dual		Red/White/White // Blue/Yellow/Yellow
4S	Four Wire, Single		Red/Red/White/White
Model	'L' Immersion Length		
---	Define 'L' Length in Inches (See Minimum Immersion Lengths Above) Example: (6.25 = 6.25"; 12.0 = 12.0")		
Model	'Y' Leadwire/Cable Options		
N	No Options, Stranded TFE Leadwires (36.0" Standard)		
W	Leadwire Options		
Model	Additional Options (Leave Model Option Blank If Not Required)		
A	1/8" NPT Mounting Adaptor (7/8" Standard)		

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