MEAS TIP SENSITIVE BEARING RTD PROBE-FLEX ARMOR/BAYONET

- Adjustable Bayonet Holder
- Variety of Configurations
- Fast Response
- Tip Sensitive
- Single and Dual Elements

The Tip Sensitive Bearing RTD Probe–Flex Armor/Bayonet is a temperature sensor with the sensing element encased in a Copper alloy tip. The Copper alloy tip is attached to a flex armor sheath. This allows for increased accuracy and sensitivity to temperature changes at the point of contact in bearings. The design also provides great mounting flexibility, the bayonet adaptor allows for a simple and inexpensive spring loaded installation option. The sensor is ideal for applications with solids, it is not for use in fluid applications.

The sensor comes standard with a 1/8” NPT mounting adaptor for ease of locking the sensor in place. The bayonet holder is fully adjustable over the entire specified ‘L’ or immersion length.

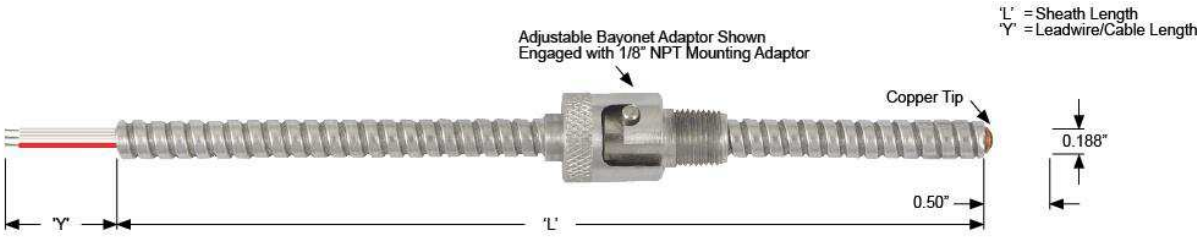
Features

- Flex Armor Sheath:
  » Copper Tip
- Elements, Single and Dual:
  » Platinum and Nickel
- Sheath Diameters:
  » 0.188”
- 1/8” NPT Mounting Adaptor
- 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

Pressure Rating:
Standard Stainless Steel Sheath: 100 psi (6.9 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
Nickel	0.00672	N/A	N/A	0.85°C, 0.68Ω

Ordering Information

TIP SENSITIVE BEARING RTD PROBE–FLEX ARMOR/BAYONET			
Model	**Sheath Style**	**Temperature Range**	
313M	Stainless Steel	-50 to 250°C (-58 to 482°F)	
Model	**Element**	**Accuracy**	**Temperature Coefficient**
P2B	Platinum	100 Ohm ±.12% at 0°C	.00385
P2C	Platinum	100 Ohm ±.5% at 0°C	.00385
G2C	Platinum	100 Ohm ±.5% at 0°C	.00392
N3C	Nickel	120 Ohm ±.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' Armor Length**		
---	Define 'L' Length in Inches Example: (12.0 = 12.0"; 7.5 = 7.5")		
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)		

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
customercare.ando@te.com

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Tel: 800-440-5100
customercare.tlse@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Tel: 0400-820-6015
customercare.chdu@te.com

te.com/sensorsolutions