

# Tip Sensitive Bearing RTD Probe— Spring Loaded Fitting



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



The **Tip Sensitive Bearing RTD Probe—Spring Loaded Fitting** consists of a bearing probe, holder and optional connection head. The quick release spring loaded holder allows for adjustability to ensure the probe tip remains in contact with the bearing surface for reliable readings and faster time response. Inserted at the opening on the bearing housing, they are used in electric motors and generators for continuous sensing of the bearing temperature.

The TQuick fitting has a shorter quick release knob for use with a transmitter in a connection head.

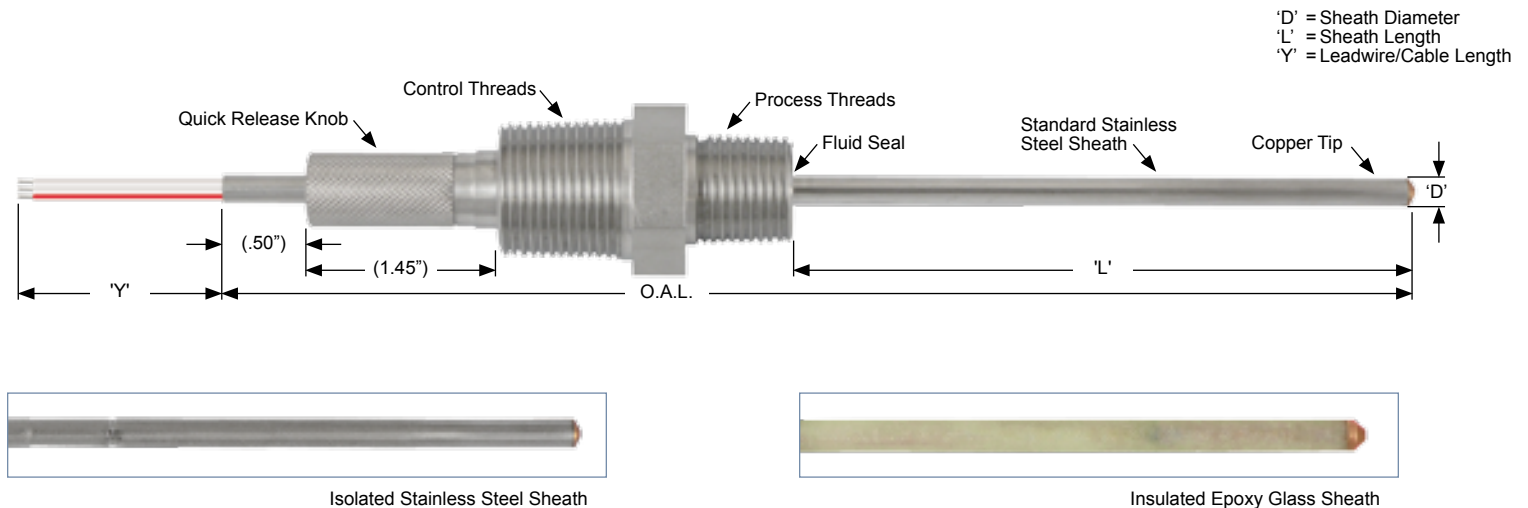
## FEATURES

- Sheath Styles:
  - » Stainless Steel, Isolated Stainless Steel, Insulated Epoxy Glass
  - » Copper Tip
- Adjustable Spring Loaded Fitting, Fluid Sealed
- Elements, Single and Dual:
  - » Platinum, Copper, Nickel
- Sheath Diameters:
  - » 0.188", 0.250", 0.215"
- Leadwire/Cable Options

## APPLICATIONS

- Electric Motors
- Generators

## dimensions



# Tip Sensitive Bearing RTD Probe— Spring Loaded Fitting

## 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)

Fluid Seal Holder: 50 psi

### Fluid Sealing:

Standard with Viton O-rings for fluid or pressure sealing

### 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 info

Tip Sensitive Bearing RTD Probe—Spring Loaded Fitting				
Model	Sheath Style	Temperature Range		
311A	Insulated Epoxy Glass	-50 to 155°C (-58 to 311°F)		
311B	Standard Stainless Steel	-50 to 250°C (-58 to 482°F)		
311C	Isolated 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	
C1D	Copper	10 Ohm ±.2% at 25°C	.00427	
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	
Model	'L' Immersion Length			
---	Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"			
Model	Connection Head (Terminal Block Included)			
N	No Connection Head			
A	Stainless Steel			
B	Aluminum			
D	Cast Iron			
G	Small Stainless Steel			
Model	Adjustable Spring Loaded Holder Configuration			
Model	Holder Style	Process Threads	Control Threads	O.A.L.
1	Quick	1/2" NPT	1/2" NPT	3.35"
2	Quick	1/2" NPT	3/4" NPT	3.50"
6	Quick	1/8" NPT	None	3.50"
7	TQuick	1/2" NPT	1/2" NPT	2.75"
Model	'D' Sheath Diameter			
B	.188" Diameter			
C	.250" Diameter (Standard SS and Isolated SS Only)			
D	.215" Diameter			
Model	'Y' Leadwire/Cable Options			
N	No Options, Stranded TFE Leadwires (36.0" Standard / 4.0" Standard with Connection Head)			
W	Leadwire Options			
Model	Additional Options (Leave Model Option Blank If Not Required)			
T	Transmitter Option			

## 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