

Tip Sensitive Bearing Thermocouple Probe—Spring Loaded



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



The **Tip Sensitive Bearing Thermocouple Probe—Spring Loaded** consists of a bearing probe, holder and a connection head, if required. 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 an 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.

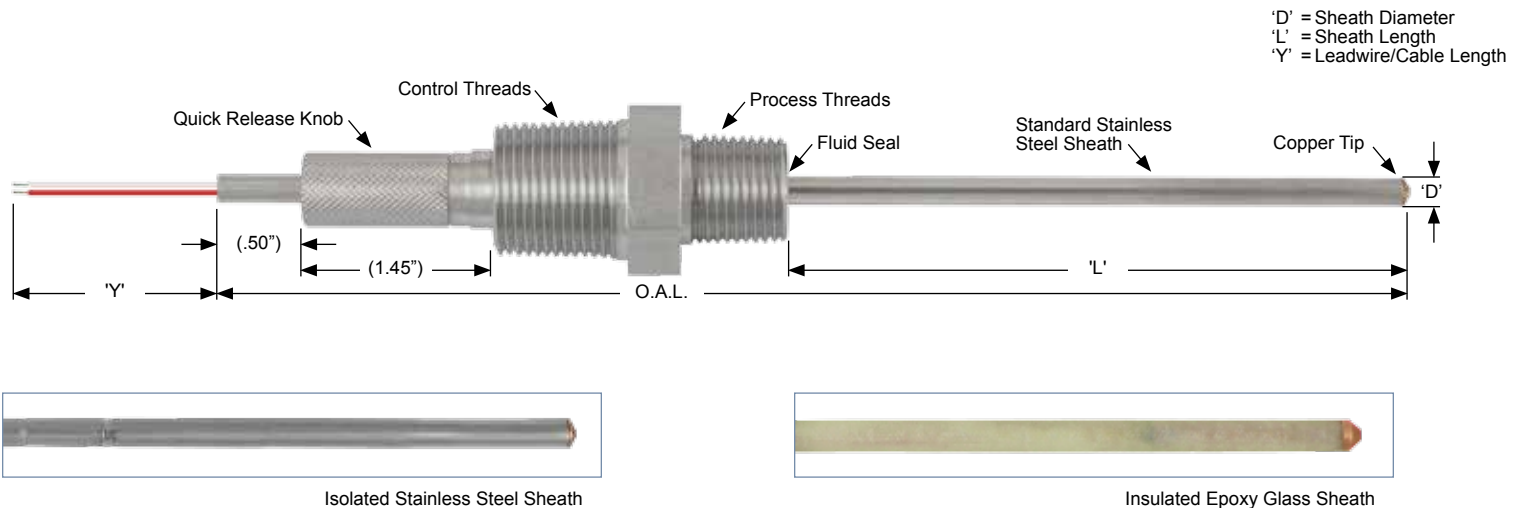
FEATURES

- Sheath Styles:
 - » Stainless Steel, Isolated Stainless Steel, Insulated Epoxy Glass
 - » Copper Tip
- Junction Types, Single and Dual:
 - » J, K, T, E
 - » Grounded or Ungrounded
- Sheath Diameters:
 - » 0.188", 0.250", 0.215"
- Leadwire/Cable Options

APPLICATIONS

- Electric Motors
- Generators

dimensions



Tip Sensitive Bearing Thermocouple Probe— Spring Loaded

performance specifications

Insulation Resistance – Ungrounded Model:

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

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

Thermocouple Temperature Accuracy Specifications:

Type	Temp Range	Standard Limits of Error	Special Limits of Error
T	-200 to 0°C	±1°C or 1.5%	Not ASTM Defined
	0 to 350°C	±1°C or 0.75%	±0.5°C or 0.4%
J	0 to 750°C	±2.2°C or 0.75%	±1.1°C or 0.4%
E	-200 to 0°C	±1.7°C or 1%	Not ASTM Defined
	0 to 900°C	±1.7°C or 0.5%	±1°C or 0.4%
K	-200 to 0°C	±2.2°C or 2%	Not ASTM Defined
	0 to 1,250°C	±2.2°C or 0.75%	±1.1°C or 0.4%

ordering info

Tip Sensitive Bearing Thermocouple Probe—Spring Loaded

Model	Sheath Style	Temperature Range		
411A	Insulated Epoxy Glass	-50 to 155°C (-58 to 311°F)		
411B	Standard Stainless Steel	-50 to 250°C (-58 to 482°F)		
411C	Isolated Stainless Steel	-50 to 250°C (-58 to 482°F)		
Model	Thermocouple Type	Junction	Color Code	
J	J	Single	Red/White [Constantan/Iron]	
K	K	Single	Red/Yellow [Alumel/Chromel]	
T	T	Single	Red/Blue [Constantan/Copper]	
E	E	Single	Red/Purple [Constantan/Chromel]	
JJ	JJ	Dual	Red/White // Red/White	
KK	KK	Dual	Red/Yellow // Red/Yellow	
TT	TT	Dual	Red/Blue // Red/Blue	
EE	EE	Dual	Red/Purple // Red/Purple	
Model	Junction Style			
G	Grounded Junction			
U	Ungrounded Junction			
Limits of Error				
A	Standard Limits of Error			
B	Special Limits of Error			
Model	'L' Sheath 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			
Holder Style	Process Threads	Contra 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)			
W	Leadwire Options			
Model	Additional Options (Leave Model Option Blank If Not Required)			
T	Transmitter Option			

联系方式



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