

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



The **Tip Sensitive Bearing Thermocouple–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 junction 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.

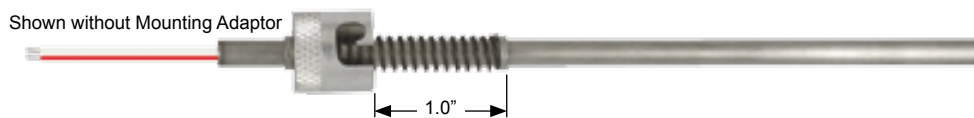
FEATURES

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

APPLICATIONS

- Electric Motors
- Generators

dimensions



Isolated Stainless Steel Sheath



Insulated Epoxy Glass Sheath

Tip Sensitive Bearing Thermocouple Probe— Bayonet

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)

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—Bayonet

Model	Sheath Style	Temperature Range	
412A	Insulated Epoxy Glass	-50 to 155°C (-58 to 311°F)	
412B	Standard Stainless Steel	-50 to 250°C (-58 to 482°F)	
412C	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		
Model	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	'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)		

联系方式



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