Configure-To-Order





MODEL 410M

(13500000-91)

TIP SENSITIVE BEARING THERMOCOUPLE PROBE

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

The Tip Sensitive Bearing Thermocouple Probe is a tubular sensor 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.

Bearing sensors can be used with a fluid sealed adjustable springloaded holder for proper loading in any depth hole to maintain contact with the bearing surface.

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"

Applications

- Industrial
- Electric Motors
- Generators

Dimensions



'D' = Sheath Diameter 'L' = Sheath Length 'Y' = Leadwire/Cable Length





Performance Specifications

Insulation Resistance – Ungrounded Model: 1,000 Megaohms @ 500 V, leads to case

Withstands 5 to 500 Hz at 3 g-level peak for 3 hours. Per ASTM E 644, Sec. 10.

Withstands 50 g-level peak sine was shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

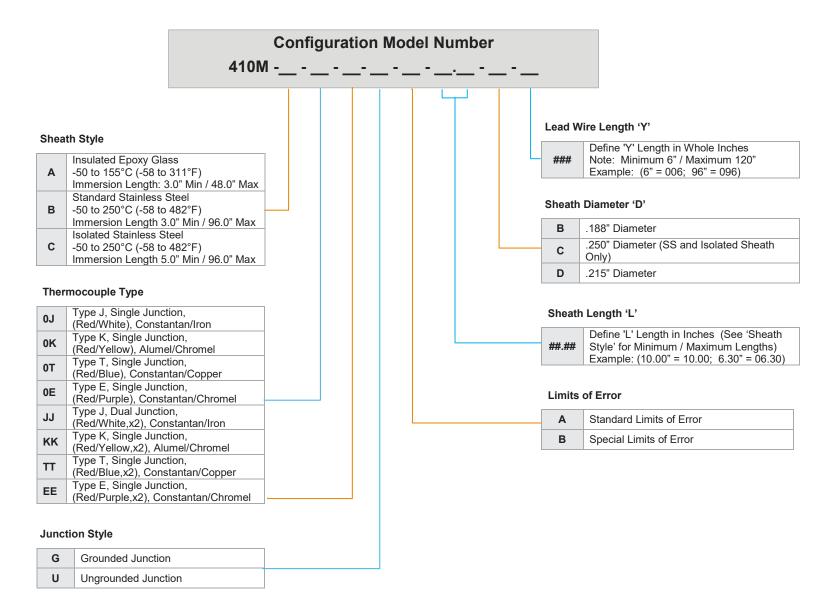
Pressure Rating:

Standard Stainless Steel Sheath: 100 psi (6.9 bar) Isolated Stainless Steel Sheath: 100 psi (69. bar) Insulated Epoxy Glass Sheath: 30 psi (2.1 bar)

Fluid Seal Holder: 50 psi

Thermocouple Temperature Accuracy Specifications:			
Туре	Temp Range	Standard Limits of Error	Special Limits of Error
Т	-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%
Е	-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 Information (13500000-91)



e.g. 410M-A-0K-U-A-06.00-B-072