



## MEAS THERMOCOUPLE PROBE

- ◆ Variety of Configurations
- ◆ Single and Dual Junctions
- ◆ Stainless Steel Case
- ◆ Custom Designs Available with:
  - » Degree Specific Case Bends
  - » Miniature Size
  - » Cut-to-length Cases
  - » Connector Options

### Features

- ◆ Sheath Styles:
  - » Stainless Steel
- ◆ Joint Types, Single and Dual:
  - » J, K, T, E
  - » Grounded or Ungrounded
- ◆ Sheath Diameters:
  - » 0.125", 0.188", 0.250"
- ◆ Leadwire/Cable Options

### Applications

- ◆ Process
- ◆ Aerospace
- ◆ Defense
- ◆ Hot Melt

The Thermocouple Probe is constructed with a Stainless Steel case. The sensing junction is embedded into the tip of the sheath. With the junction located in the tip of the case this is the area that needs to be in contact with the process to obtain correct temperature measurement. Fittings associated with the probe designs are related to the mounting technique required by your application. These sensors can be utilized in many different industries and applications. Probe sensors are ideal for immersion in processes.

**Dimensions**



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

**Performance Specifications**

**Insulation Resistance – Ungrounded Models:**  
 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:**  
 1,500 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 Information**

<b>Thermocouple Probe</b>			
<b>Model</b>	<b>Temperature Range</b>		
200M	Moderate: -50 to 250°C (-58 to 482°F)		
200H	High: Mineral Insulated		
<b>Model</b>	<b>Thermocouple Type</b>	<b>Junction</b>	<b>Color Code</b>
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
<b>Model</b>	<b>Junction Style</b>		
G	Grounded Junction		
U	Ungrounded Junction		
<b>Model</b>	<b>Limits of Error</b>		
A	Standard Limits of Error		
B	Special Limits of Error		
<b>Model</b>	<b>'D' Sheath Diameter</b>		
A	.125" Diameter (Single Junction Only)		
B	.188" Diameter		
C	.250" Diameter		
<b>Model</b>	<b>Sheath Material</b>		
B	Stainless Steel		
E	Inconel (H Only)		
<b>Model</b>	<b>'L' Sheath Length</b>		
----	Define 'L' Length in Inches Note: Minimum 1.5" / Maximum 96.0" Example: (12.0 = 12.0"; 28.5 = 28.5")		
<b>Model</b>	<b>'Y' Leadwire/Cable Options</b>		
N	No Options, Solid TFE Leadwires (36.0" Standard)		
W	Leadwire Options		

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