



MEAS THERMOCOUPLE PROBE-STRAIN RELIEF

- Transition Fitting
- Spring Strain Relief
- ◆ Variety of Configurations
- ◆ Single and Dual Junctions
- Stainless Steel Case
- Custom Designs Available with:
- » Degree Specific Case Bends
- » Connector Options

The Thermocouple Probe—Strain Relief 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.

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

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 was shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

Pressure Rating:

1,500 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

Thermocouple Probe-Strain Relief					
Model	Temperature Range				
203M 203H	Moderate: -50 to 250°C (-58 to 482°F) High: Mineral Insulated				
Model	Thermocouple Type	Element	Color Code		
J K T E JJ KK TT EE	J K T E JJ KK TT EE	Single Single Single Single Dual Dual Dual Dual Dual	Red/White [Constantan/Iron] Red/Yellow [Alumel/Chromel] Red/Blue [Constantan/Copper] Red/Purple [Constantan/Chromel] Red/White // Red/White Red/Yellow // Red/Yellow Red/Blue // Red/Blue Red/Purple // Red/Purple		
Model	Junction Style				
G U	Grounded Junction Ungrounded Junction				
Model	Limits of Error				
A B	Standard Limits of Error Special Limits of Error				
Model	'D' Sheath Diameter				
A B C	.125" Diameter (Single Junction Only) .188" Diameter .250" Diameter				
Model	Sheath Material				
B E	Stainless Steel Inconel (H Only)				
Model	Connector Options				
A B	Spring Strain Relief (Maximum Temperature 250°C) Rubber Strain Relief (Maximum Temperature 150°C) (M Only)				
Model	'L' Sheath Length				
	Define 'L' Length in Inches Note: Minimum 1.5" / Maximum 96.0" Example: (12.0 = 12.0"; 28.5 = 28.5")				
Model	'Y' Leadwire/Cable Options				
N W	No Options, Solid TFE Leadwires (36.0" Standard) Leadwire Options				



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