



MEAS SPRING LOADED THERMOCOUPLE PROBE

- Variety of Configurations
- Single and Dual Junctions
- Stainless Steel Case

The Spring Loaded Thermocouple Probe is constructed with a stainless steel sheath and utilizes a spring to provide positive contact between the tip and the process. Positive contact can decrease the time response of the sensor as well as provide a more consistent temperature reading. Our crimped twin threaded hex fitting sensors are generally designed for use with thermowells, however they can be used in any application that requires the spring action.

Features

- Sheath Styles:
- » Stainless Steel
- * Junction Types, Single and Dual:
- » J, K, T, É,
- » Grounded or Ungrounded
- Sheath Diameters
 » 0.250"
- Leadwire/Cable Options

Applications

+ Process

Dimensions



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

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 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%		
К	-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

Spring Loaded Thermocouple Probe					
Model	Temperature Range				
220M 220H	Moderate: -50 to 250°C (-58 to 482°F) High: Mineral Insulated (Consult Factory)				
Model	Thermocouple Type	Junction	Color Code		
J K E JJ KK TT EE	J K T JJ KK TT EE	Single Single Single 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	'L' Sheath Length				
	Define 'L' Length in Inches Note: Minimum 1.5" / Maximum 96.0" Example: (12.0 = 12.0"; 6.75 = 6.75")				
Model	Sheath Material				
B E	Stainless Steel Inconel (Model 220H Only)				
Model	'Y' Leadwire/Cable Options				
N W	No Options, Solid TFE Leadwires (36.0" Standard) Leadwire Options				

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