Spring Loaded Thermocouple Probe-Twin Threaded Fitting



Ideal for Thermowell Applications 1/2" x 1/2" NPT Threaded Fitting Variety of Configurations Single and Dual Junctions Stainless Steel Case

Custom Designs Available with:

- Connection Heads
- Transmitters

The Spring Loaded Thermocouple

Probe–Twin Threaded Fitting is constructed with a stainless steel sheath and utilizes a spring loaded fitting 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. The dual threaded fitting also allows the use of a connection head.

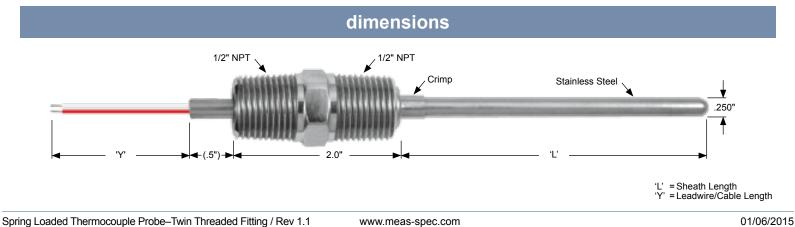
FEATURES

- Sheath Styles: »Stainless Steel
- Junction Types, Single and Dual: »J, K, T, E

- »Grounded or Ungrounded
- Sheath Diameters: »0.250"
- Leadwire/Cable Options

APPLICATIONS

Process



1711 139th Lane NW Andover, MN 55304

+1 800.899.9783

temp.eng.us@meas-spec.com

Spring Loaded Thermocouple Probe– Twin Threaded Fitting



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%
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%
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%

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ordering info

Spring Loaded Thermocouple Probe–Twin Thread Fitting						
Model	Temperature Range					
221M		Moderate: -50 to 250°C (-58 to 482°F)				
221H	High: Mineral Insulated (Consult Factory)					
Model	Thermocouple Type	Junction	Color Code			
J	J	Single	Red/White [Constantan/Iron]			
K	К	Single	Red/Yellow [Alumel/Chromel]			
Ţ	Ţ	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 Model	EE Junction Style	Dual	Red/Purple // Red/Purple			
G	Junction Style Grounded Junction					
U	Ungrounded Junction					
Model	Limits of Error					
A	Standard Limits of Error					
В	Special Limits of Error					
Model	Connection Head (Terminal Block Included)					
N	No Connection Head					
Α	Stainless Steel					
В	Aluminum					
С	Polypropylene (Model 210M Only)					
D	Cast Iron					
G	Small Stainless Steel					
Model	'L' Immersion Length					
N	Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"					
Model	Sheath Material					
B E	Stainless Steel					
⊏ Model	Inconel (H Only) 'Y' Leadwire/Cable Options					
N	No Options, Stranded TFE Leadwires (36.0" Standard)					
W	Leadwire Options					
Model	Additional Options (Leave Code Blank if Not Required)					
T	Transmitter Options		-,			
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