



MEAS DIRECT IMMERSION THERMOCOUPLE PROBE—TWIN THREAD FITTING

- ♦ Variety of Configurations
- ♦ Single and Dual Junctions
- ♦ Stainless Steel Case
- ♦ Oil Resistant
- ♦ Pressure Resistant
- ♦ Custom Designs Available

The Direct Immersion RTD Probe—Twin Threaded Fitting is constructed with a stainless steel sheath and a welded connection. The welded connection is typically a 1/2" x 1/2" NPT, 1/2" x 3/4" NPT or 3/4" x 3/4" NPT connection. The connection is dual threaded for use with a connection head. The sensors are available with single or dual junctions. These sensors are ideal for the process industry where immersion in the application is essential.

Features

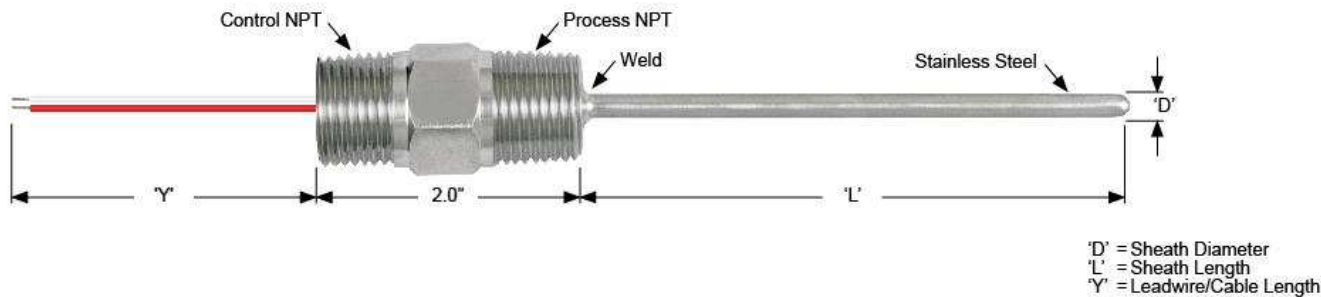
- ♦ Sheath Styles:
 - » Stainless Steel
- ♦ Junction Types, Single and Dual:
 - » J, K, T, E
 - » Grounded or Ungrounded
- ♦ Sheath Diameter:
 - » 0.125", 0.188", 0.250"
- ♦ Leadwire/Cable Options

Applications

- ♦ Process
- ♦ Aerospace
- ♦ Flow
- ♦ Hot Melt

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Dimensions



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%

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Ordering Information

Direct Immersion Thermocouple Probe-Twin Thread Fitting				
Model	Temperature Range			
210M	Moderate: -50 to 250°C (-58 to 482°F)			
210H	High: Mineral Insulated (Consult Factory)			
Model	Thermocouple Type	Junction	Color Code	
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
Model	Junction Style			
G	Grounded Junction			
U	Ungrounded Junction			
Model	Limits of Error			
A	Standard Limits of Error			
B	Special Limits of Error			
Model	'D' Sheath Diameter			
A	.125" Diameter (Single Element Only) (Model 210M Only)			
B	.188" Diameter			
C	.250" Diameter			
Model	Connection Head (Terminal Block Included)			
N	No Connection Head			
A	Stainless Steel			
B	Aluminum			
C	Polypropylene (Model 210M Only)			
D	Cast Iron			
G	Small Stainless Steel			
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	Stainless Steel			
E	Inconel (H Only)			
Model	Process x Control Threads			
1	1/2"NPT x 1/2"NPT (Standard)			
2	1/2"NPT x 3/4"NPT			
3	3/4"NPT x 3/4"NPT			
Model	'Y' Leadwire/Cable Options			
N	No Options, Solid TFE Leadwires (36.0" Standard)			
W	Leadwire Options			
Model	Additional Options (Leave Code Blank if Not Required)			
T	Transmitter Options (Specify Temperature Range)			

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