



MEAS MINIATURE THERMOCOUPLE PROBE

- ◆ Miniature Size
- ◆ Straight or Stepped Sheath
- ◆ Single Junction
- ◆ Stainless Steel Case

The Miniature Thermocouple Probe is a small, tubular tip sensitive sensor 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. These sensors are primarily used for extrusion equipment. They can also be used to meet general application needs. These are available in straight and stepped sheath configurations. The stepped sheath style adds additional capability for mounting.

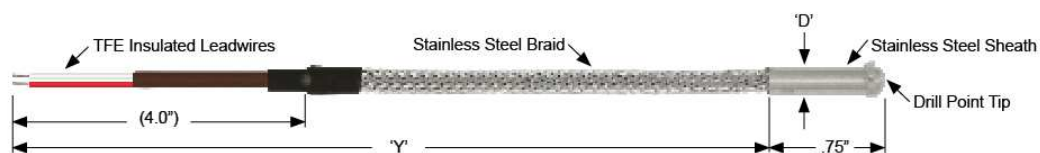
Features

- ◆ Sheath Styles:
 - » Stainless Steel
- ◆ Junction Types, Single:
 - » J, K, T, E
 - » Grounded or Ungrounded
- ◆ Sheath Diameters:
 - » 0.125", 0.156"

Applications

- ◆ Process
- ◆ Hot Melt

Dimensions



Straight Style Miniature Capsule



Stepped Style Miniature Capsule

'D' = Sheath Diameter
'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 wave shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

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

Miniature Thermocouple Probe

Model Temperature Range

624M Moderate: -50 to 250°C (-58 to 482°F)

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]

Model Junction Style

G Grounded Junction
U Ungrounded Junction

Model Limits of Error

A Standard Limits of Error
B Special Limits of Error

Model Sheath Style

1 Straight
2 Stepped

Model Wire Gage 'D' Sheath Diameter

B 20 AWG .156" Diameter
E 24 AWG .125" Diameter

Model 'Y' Stainless Steel Braid Length

---- Define 'Y' Length in Whole Inches
Example: (012 = 12.0"; 120 = 120.0")

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