

- Fast Response
- Surface Sensing
- Noninvasive, Simple Installation
- Flat, Flexible
- Custom Dimensions



The **Silicone Rubber Surface Thermocouple** is a flat, flexible, rectangular sensor with a sensing element laminated in silicone rubber. They are used to monitor or measure temperature on round or uneven surfaces. For motor and generator applications, they are commonly used in the end turns of the windings. Measurement Specialties utilizes four standard thermocouple types; J, K, T and E. Measurement Specialties has many sizes available from stock or we can customize to meet your specifications.

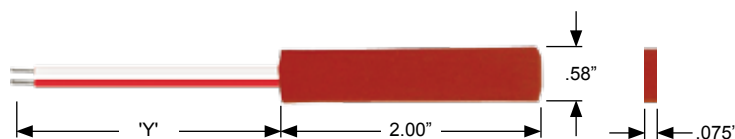
FEATURES

- Temperature Range:
 - » -50° to 220°C (-58° to 428°F)
- Thermocouple Type:
 - » J, K, T, E
- Optional Adhesive Backing
- Leadwire Options

APPLICATIONS

- Electric Motors
- Generators
- HVAC
- Aerospace

dimensions



'Y' = Leadwire/Cable Length

Silicone Rubber Surface Thermocouple

performance specifications

Time Constant:

1.0 second maximum for 63.2% response to change in temperature per ASTM E644

Dielectric Strength:

1,000 Volts RMS at 60 Hz, for one minute, element to outer surfaces, with 1 mA leakage current

Thermocouple Types:

Type J [Constantan/Iron]
Type K [Alumel/Chromel]
Type E [Constantan/Copper]
Type T [Constantan/Chromel]

Application Temperature Range:

-50 to 220°C (-58 to 428°F)

Leadwires:

Single Junction: 26 AWG PTFE Insulated, Solid Conductor

ordering info

Silicone Rubber Surface Thermocouple

Model Temperature Range

420M Moderate Temperature Range: -50° to 220°C (-58° to 428°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 (Separate Ground Wire Welded with each Junction)
U Ungrounded Junction

Model Limits of Error

A Standard Limits of Error
B Special Limits of Error

Model 'Y' Leadwire Length

--- Define 'Y' Length in Inches. (12 = 12.0")

Model 'Y' Leadwire Options

N No Options, Solid PTFE Leadwires (36.0" Standard)
W Leadwire Options

Model Leadwire Material

A PTFE

Model Mounting Options

1 Standard, No Adhesive Backing
2 Adhesive Backing

联系方式



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