

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



The **Silicone Rubber Surface RTD** 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. Silicone rubber surface RTD sensors are manufactured with plotted element style. A plotted element allows for measuring the average temperature over an extended area. Measurement Specialties has many sizes available from stock or we can customize to meet your specifications.

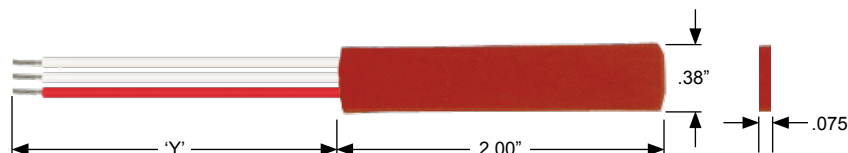
## FEATURES

- Temperature Range:
  - »  $-50^{\circ}$  to  $220^{\circ}\text{C}$  ( $-58^{\circ}$  to  $428^{\circ}\text{F}$ )
- Elements:
  - » Platinum, Copper, Nickel
  - » Style: Plotted
- Optional Adhesive Backing
- Leadwire/Cable Options

## APPLICATIONS

- Electric Motors
- Generators
- HVAC
- Aerospace

## dimensions



'Y' = Leadwire/Cable Length

# Silicone Rubber Surface RTD Sensor

## performance specifications

### Time Constant:

Two seconds maximum for 63.2% response to change in temperature per ASTM E644

### Repeatability:

Less than  $\pm .06\%$  change in ice point resistance after 10 consecutive cycles between ice point and 250°C

### Long Term Stability:

Less than  $\pm .2\%$  ice point resistance shift after 1000 hours at 250°C

### Self Heating:

10 mW/C in water moving 3 feet/sec

### Hysteresis:

$\pm .15\%$  of span temperature

### Dielectric Strength:

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

### Application Temperature Range:

Plotted Element: -50 to 220°C (-58 to 428°F)

### Leadwires:

Three Wire: 26 AWG PTFE Insulated

Four Wire: 26 AWG PTFE Insulated

## ordering info

### Silicone Rubber Surface RTD Sensor

#### Model Temperature Range

320M Moderate Temperature: -50 to 220°C (-58 to 428°F)

#### Model Element Accuracy Temperature Coefficient

P2B Platinum 100 Ohm  $\pm .12\%$  at 0°C .00385

P2C Platinum 100 Ohm  $\pm .5\%$  at 0°C .00385

G2C Platinum 100 Ohm  $\pm .5\%$  at 0°C .00392

C1D Copper 10 Ohm  $\pm .2\%$  at 25°C .00427

N3C Nickel 120 Ohm  $\pm .5\%$  at 0°C .00672

#### Model Leadwires, Element Configuration Color Code

2S Two Wire, Single Red/White

3S Three Wire, Single Red/White/White

4S Four Wire, Single Red/Red/White/White

#### Model 'Y' Leadwire/Cable Options

---- Define 'Y' Length in Inches (120 = 120.0")

#### Model Leadwire Material

A PTFE

#### Model Mounting Options

1 Standard, No Adhesive Backing

2 Adhesive Backing

## 联系方式



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