

## MODEL TMPRT - SURFACE MOUNT AND PIPE PLUG RTD SENSORS



**SURFACE MOUNT**



**PIPE PLUG**

## MODEL TMPRT - ADVANCED DESIGN SURFACE MOUNT RTD SENSOR

### GENERAL DESCRIPTION

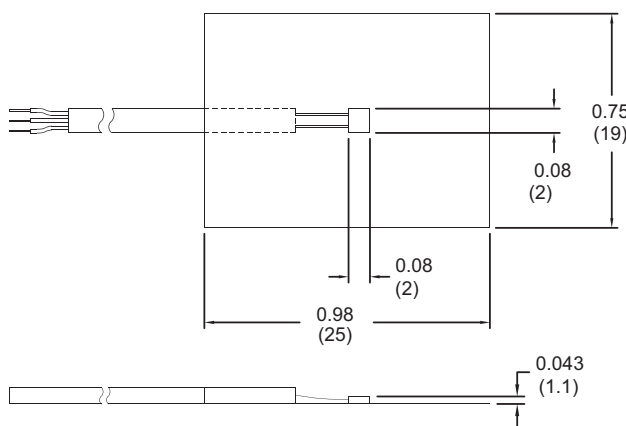
Model TMPRT "stick-on" style RTD temperature sensor mounts on flat surfaces and provides Class B accuracy. Based on a bare 2 X 2 X 0.08 mm thin film platinum RTD, the unit is supplied with PFA insulated wire and can be easily applied using its self-adhesive backing. Applications for this versatile RTD sensor include monitoring chip, heat sink, and environmental temperatures in electronic devices; checking pipe or duct temperatures; monitoring motor and transformer core heat; testing insulation capabilities, as well as use in other applications in which surface and/or gradient temperatures need to be monitored or controlled.

- 100  $\Omega$  DIN CLASS B ( $\pm 0.12\%$  AT 0 °C) ACCURACY STANDARD
- EASY-INSTALLATION SILICONE BASED, SELF BACKING RATED TO 500 °F (260 °C)
- SENSOR CAN BE REAPPLIED
- STRIPPED 3 WIRE LEADS (CONNECTORS SOLD SEPARATELY)
- 10 FOOT LEAD LENGTH
- IDEAL FOR FLAT OR CURVED SURFACES

### SPECIFICATIONS

1. **MINIMUM/MAXIMUM TEMPERATURE:**  
-100 °F (-73 °C) to 500 °F (260 °C) continuous
2. **SENSING ELEMENT:** Type 385 100 $\Omega$  thin film DIN platinum.
3. **ACCURACY:**  $\pm 0.12\%$  at 0 °C (DIN Class B)
4. **RESPONSE TIME:** Less than 0.9 sec (63% response time in water flowing at 3 feet per second), less than 2 sec response time on a hot plate.
5. **LEAD WIRE:** 10 foot 26 AWG stranded nickel plated copper, PFA-insulated and jacket cable
6. **ADHESIVE PAD DIMENSIONS:** 1 x 0.75 x 0.01 " (25 x 19 x 0.3 mm)

### DIMENSIONS In inches (mm)



### ORDERING INFORMATION

| MODEL NO. | DESCRIPTION | INSULATION TYPE | TERMINATION (COLD SIDE) | CABLE LENGTH (IN FEET) | PART NUMBER |
|-----------|-------------|-----------------|-------------------------|------------------------|-------------|
| TMPRT     | SMT RTD     | PFA             | Stripped Wire Bare Ends | 10                     | TMPRT001    |



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## MODEL TMPRT - PIPE PLUG RTD SENSOR

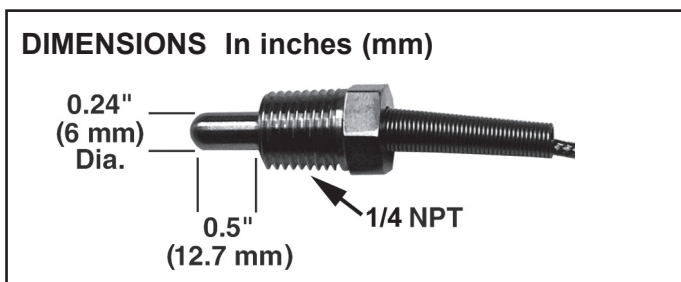
### GENERAL DESCRIPTION

The pipe plug RTD sensor is a unit specially designed for use in pressure vessel applications. Its 3 wire construction provides connectivity to most hand held instruments. The unit features a high accuracy 100  $\Omega$  Class A DIN platinum element and steel braided, PFA insulated wires for the necessary durability and protection demanded by harsher environments.

- IDEAL FOR USE IN PRESSURE VESSEL APPLICATIONS, 172 BAR (2500 PSI) MAXIMUM
- 6 MM (0.24") DIAMETER, SST PROBE
- STEEL BRAIDED, PFA INSULATED LEAD WIRES
- HIGH ACCURACY 100  $\Omega$  CLASS A DIN THIN-FILM PLATINUM ELEMENT (ALPHA = 0.00385)
- STRAIN RELIEF SPRING

### SPECIFICATIONS

1. **WIRE:** 26 AWG PFA insulated available in 6' or 20' length  
Termination: Stripped bare wire ends
2. **MAX TEMPERATURE:** 450 °F (230 °C)
3. **OVERBRAID:** Stainless Steel
4. **THREADS:** 1/4" NPT
5. **SENSING ELEMENT END DIAMETER:** 0.24" (6mm)



### ORDERING INFORMATION

| MODEL NO. | DESCRIPTION          | CABLE LENGTH (IN FEET) | PART NUMBER |
|-----------|----------------------|------------------------|-------------|
| TMPRT     | Pipe Plug RTD Sensor | 6'                     | TMPRT002    |
|           |                      | 20'                    | TMPRT003    |



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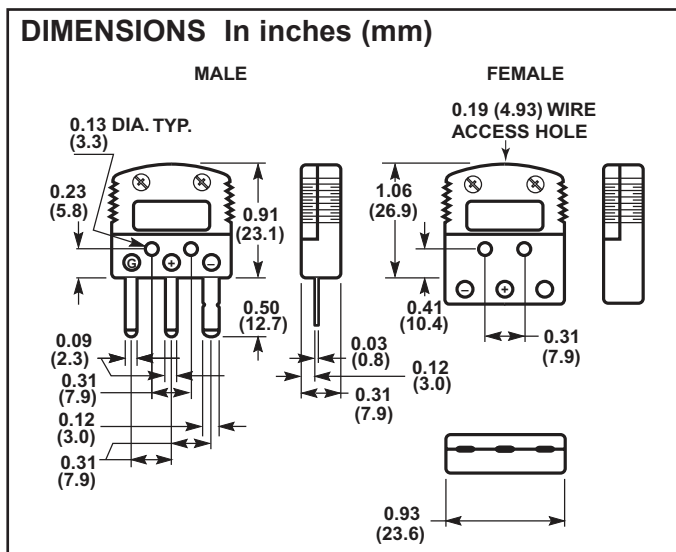
## MODEL TMPCN - RTD PROBE CONNECTOR

### GENERAL DESCRIPTION

RTD Mini Connectors are for use with RTD probes. They are miniature size, and are available in both male and female termination.

### SPECIFICATIONS

1. **CONNECTOR BODY MATERIAL:** Glass Filled Nylon, for temperature ranges of -20 to 428 °F (-29 to 220 °C).
2. **CONNECTOR BODY COLOR:** White
3. **WIRE GAGE:** Accepts stranded or solid wire up to 20 AWG
4. **WIRE TERMINATION:** Combination Phillips/Slot Screws
5. **CONNECTOR ENDS:** Copper



### ORDERING INFORMATION

| MODEL NO. | DESCRIPTION             | TERMINATION | PART NUMBER |
|-----------|-------------------------|-------------|-------------|
| TMPCN     | RTD Miniature Connector | Male        | TMPCNM09    |
|           |                         | Female      | TMPCNM10    |



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