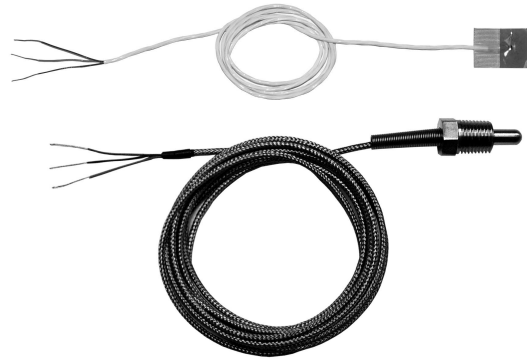


## MODELS TMPRT & TMPCN THERMOCOUPLES



### 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 A accuracy for critical monitoring applications. Based on a bare 2 X 2 X .08 mm thin film platinum RTD, the unit is supplied in a Teflon PFA insulated configuration and can be easily applied using its self-adhesive backing. Some of the applications of this versatile RTD sensor include monitoring chip, heat sink, and environmental temperatures in electronic devices; checking piping or ducting temperatures; monitoring motor and transformer core heat; testing insulation capabilities, as well as checking other applications in which surface and/or gradient temperatures need to be monitored and controlled.

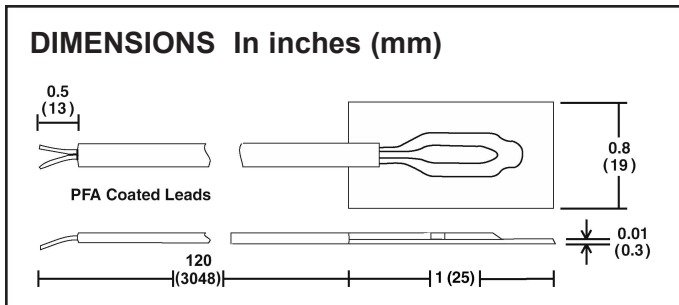
- 100 Ω DIN CLASS A ( $\pm 0.06 \Omega$  OR  $\pm 0.06\%$  AT 0°C) ACCURACY STANDARD
- EASY-INSTALLATION SILICONE BASED, SELF BACKING RATED TO 260°C (500°F)
- SENSOR CAN BE REAPPLIED
- STRIPPED 3 WIRE LEADS (CONNECTORS SOLD SEPARATELY)
- 10 FOOT LEAD LENGTH
- IDEAL FOR FLAT OR CURVED SURFACES
- ABLE TO WITHSTAND HIGH VIBRATION ENVIRONMENTS

#### SPECIFICATIONS

- MINIMUM/MAXIMUM TEMPERATURE:**  
 -73° C (-100° F) to 260° C (500° F) continuous  
 290° C (554° F) short-term (when stuck in place)
- SENSING ELEMENT:** 100 Ω at 0° C (32° F)  
 Temperature coefficient of 0.00385 Ω/Ω/°C (IEC60751)
- ACCURACY:**  $\pm 0.06\%$  at 0° C (DIN Class A)
- RESPONSE TIME:** Less than 0.9 s (63% response time in water immersion), less than 2 s response time on a hot plate.
- SELF HEATING EFFECT:** 2.5mW/°C
- LEAD WIRE:** 10 foot 26 AWG stranded nickel plated copper, Teflon PFA-insulated and jacket cable
- ADHESIVE PAD DIMENSIONS:** 1 x ¾" (25 X 19 mm)

The IEC-751/BS EN60751 1996 standard tolerances for Pt 100Ω RTD elements.  
 Class A devices have an accuracy of  $\pm 0.35^\circ$  at 100° C

IEC 751 CLASS A/B STANDARD TOLERANCES				
TEMP. IN °C	TOLERANCE			
	CLASS	A	CLASS	B
	$\pm \text{ }^\circ\text{C}$	$\pm \Omega$	$\pm \text{ }^\circ\text{C}$	$\pm \Omega$
-200	0.55	0.24	1.3	0.56
-100	0.35	0.14	0.8	0.32
0.0	0.15	0.06	0.3	0.12
100	0.35	0.13	0.8	0.30
200	0.55	0.20	1.3	0.48
300	0.75	0.27	1.8	0.64
400	0.95	0.33	2.3	0.79
500	1.15	0.38	2.8	0.93
600	1.35	0.43	3.3	1.06



#### ORDERING INFORMATION

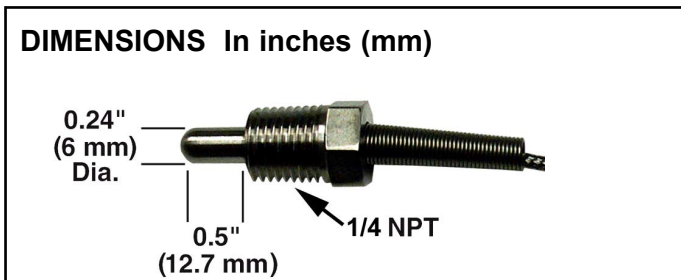
MODEL NO.	DESCRIPTION	INSULATION TYPE	TERMINATION (COLD SIDE)	LENGTH (FT)	PART NUMBER
TMPRT	SMT RTD	TEFLON PFA	STRIPPED WIRE BARE ENDS	10	TMPRT001

# 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 Ω Class A DIN platinum element and steel braided, Teflon 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, TEFLON PFA INSULATED LEAD WIRES
- HIGH ACCURACY 100 Ω CLASS A DIN PLATINUM ELEMENT (EUROPEAN CURVE)
- STRAIN RELIEF SPRING



## SPECIFICATIONS

1. WIRE GAGE: 26 AWG, standard limits of error
2. INSULATION: Teflon PFA
3. MAX TEMPERATURE: 230° C (450° F)
4. TERMINATION: Stripped bare wire ends
5. OVERBRAID: Stainless Steel
6. THREADS: 1/4" NPT
7. SENSING ELEMENT END DIAMETER: .24" (6mm)

## ORDERING INFORMATION

MODEL NO.	DESCRIPTION	CABLE LENGTH	TERMINATION (COLD SIDE)	PART NUMBER
TMPRT	PIPE PLUG RTD SENSOR	6'	STRIPPED BARE WIRE ENDS	TMPRT002

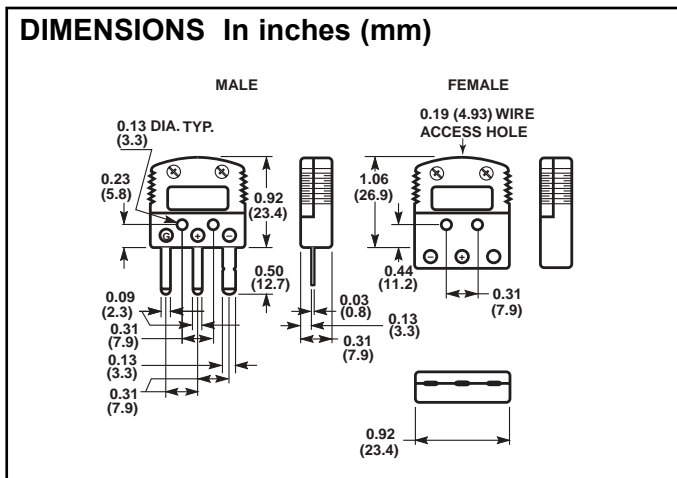
# MODEL TMPCN - RTD PROBE CONNECTORS

## 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 -29 to 220° C.
2. CONNECTOR BODY COLOR: ANSI color coded
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	TYPE	TERMINATION	PART NUMBER
TMPCN	RTD miniature male connector	U	MALE	TMPCNM09
	RTD miniature female connector	U	FEMALE	TMPCNM10