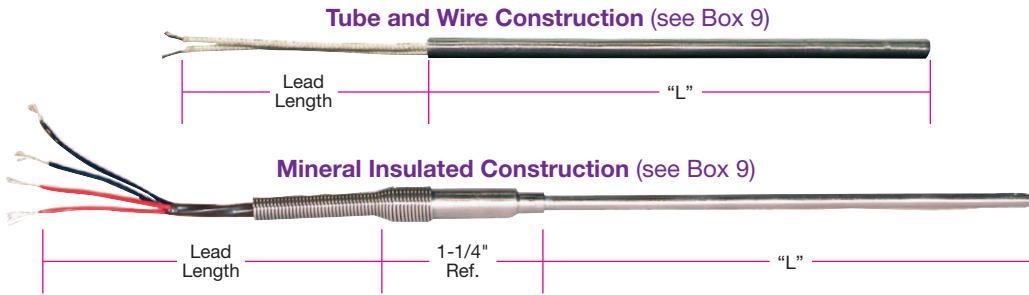


# Temperature Sensing



## Resistance Temperature Sensing

### Style RTD1 — Straight Probes



#### Design Features

\* *Platinum Resistance Element*



**Optional Installation  
Compression Fitting**  
See Box 12

#### Ordering Information

RTDs are offered with the options listed in the worksheet below. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

#### Two Construction Styles to Suit Any Application

(See Ordering Code Box 9)

\* *Standard Industry Tube and Wire construction with fiberglass 900°F (482°C) or Teflon® 392°F (200°C) lead wires*

\* *Mineral Insulated construction rated up to 1200°F (650°C). This construction type allows forming and bending the sheath to meet design requirements.*

#### Ordering Code:

RTD1 -  1  2  3  4  5  6  7  8  9  10  11  12  13

#### Element BOX 1

**S** = 100Ω Single    **K** = 1000Ω Single  
**D** = 100Ω Dual    **L** = 1000Ω Dual  
*TCR = .00385 ohm/ohm/°C*

#### Lead Wire Length BOX 8

In inches **001** to **999**  
12" (012) Standard

#### RTD Construction Type BOX 9

**T** = Tube and Wire Construction  
**M** = MgO Insulated Construction with strain relief spring (Type "M" not available for "K" or "L" from Element Box 1)

#### Element Class BOX 2

**A** = ±0.06% at 0°C, Optional  
**B** = ±0.12% at 0°C, Standard

#### Lead Wire Construction BOX 10

|                          |          |          |          |
|--------------------------|----------|----------|----------|
| Fiberglass 900°F (482°C) | <b>S</b> | <b>B</b> | <b>A</b> |
| Teflon® 392°F (200°C)    | <b>T</b> | <b>D</b> | <b>F</b> |

w/ SS Overbraid\*    w/SS Flex Armor\*  
\* *Flex Armor options, overbraid options and .125" O.D. and dual constructions may require transitions.*

#### Number of Leads BOX 3

**2** = 2-wire circuit  
**3** = 3-wire circuit  
**4** = 4-wire circuit  
*0.125 O.D. 4-wire circuit not available*

#### Lead Wire Termination BOX 11

|   |   |
|---|---|
| <b>P</b> = Standard Male Plug 350°F (177°C) | <b>F</b> = Mini Plug & Mating Jack                                |
| <b>J</b> = Standard Female Jack             | <b>B</b> = Std.—2-1/2 in. Split Leads                             |
| <b>K</b> = Std. Plug with Mating Jack       | <b>S</b> = Leads with Spade Lugs                                  |
| <b>D</b> = Mini Male Plug 350°F (177°C)     | <b>C</b> = 2-1/2 in. Split Leads with BX Connector and Spade Lugs |
| <b>E</b> = Mini Female Jack                 |   |
| <b>X</b> = Other (Specify)                  |   |

*Plugs and Jacks for 2- and 3-Wire Only*

#### Sheath O.D. BOX 4

**F** = 0.125" (Single Element Only)  
**G** = 0.188"  
**H** = 0.250"  
**X** = Other (Specify)

#### Sheath Material BOX 5

**B** = 304 SS  
**C** = 316 SS  
**A** = Alloy 600  
(Type "M" only; See Box 9)

#### Optional Compression Fitting BOX 12

|                          |                           |
|--------------------------|---------------------------|
| <b>1</b> = 1/8" NPT SS   | <b>4</b> = 1/8" NPT Brass |
| <b>2</b> = 1/4" NPT SS   | <b>5</b> = 1/4" NPT Brass |
| <b>3</b> = 1/2" NPT SS   | <b>6</b> = 1/2" NPT Brass |
| <b>0</b> = None Required |                           |

#### Sheath Length "L" BOX 6

Whole inches  
**01** to **99**  
For lengths over 99 in. consult TEMPCO.

#### Sheath Length "L" BOX 7

Fractional inches  
**0** = 0"    **3** = 3/8"    **6** = 3/4"  
**1** = 1/8"    **4** = 1/2"    **7** = 7/8"  
**2** = 1/4"    **5** = 5/8"

#### Special Requirements BOX 13

**X** = Specify  
**0** = None

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).