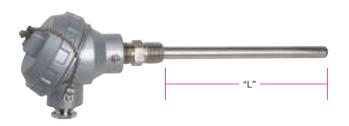
# Temperature Sensing

## Resistance Temperature Sensing



## Style RTD7 — Connection Head with 1/2" NPT Hex Nipple



#### Two Construction Styles to suit any application (See Ordering Code Box 10)

- \* 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.

#### **Design Features**

- \* Platinum Resistance Element.
- \* Tempco's connection heads are gasketed to seal against moisture, dust and corrosive or hostile atmospheres.
- \* Screw covers are attached to body with a plated chain.
- \* Covers have lugs for tightening or loosening with a screwdriver or wrench.
- \* Available in single or duplex.
- \* Tempco's connection heads are available in die cast aluminum, Bakelite and cast iron in a variety of sizes from miniature for confined areas, to the large universal head designed for heavy process and industrial applications. See sensor accessories on pages 14-98 through 14-100 for complete information.

# **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.

#### 10 11 Ordering Code: RTD7

#### Element BOX 1

 $S = 100\Omega$  Single  $\mathbf{K} = 1000\Omega$  Single  $L = 1000\Omega$  Dual  $\mathbf{D} = 100\Omega$  Dual

 $TCR = .00385 \text{ ohm/ohm/}^{\circ}C$ 

## 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" 7 = 7/8"

**4** = 1/2" 1 = 1/8" **2** = 1/4" 5 = 5/8"

#### Element Class BOX 2

 $A = \pm 0.06\%$  at 0°C, Optional  $\mathbf{B} = \pm 0.12\%$  at 0°C, Standard

#### Connection Head BOX 8

A = Standard Size Aluminum

**B** = Medium Size Aluminum

P = Polypropylene

**S** = Stainless Steel

**F** = Standard Bakelite

#### Number of Leads BOX 3

2 = 2-wire circuit

3 = 3-wire circuit

**4** = 4-wire circuit (Dual circuit not available)

0.125" O.D. (Dual circuit not available)

#### Sheath O.D. BOX 4

F = 0.125"

G = 0.188"

H = 0.250"

# Sheath Material BOX 5

B = 304 SS

C = 316 SS

 $\mathbf{A} = \text{Alloy } 600$ 

(Type "M" Only; See Box 10)

**C** = Miniature Aluminum

H = Standard Cast Iron

*Note*: Conduit connection for A, F, H & S is 1/2" (3/4" available);

for B & C is 3/8"; and for P is 3/4" NPT.

For overall dimensions see pages 14-98 through 14-100.

#### Spring-Loaded Probe BOX 9

O = Not Required

Y = Required

#### RTD Construction Type BOX 10

#### **Standard Industry Construction**

S = Fiberglass insulated 900°F (450°C)

 $T = Teflon^{\circ}$  Insulated 392°F (200°C)

#### **Mineral Insulated Construction**

M = MgO Insulated 1200°F (650°C (Type "M" not available for "K" or "L" from Element Box 1)

# Special Requirements BOX 11

X = Specify

0 = None

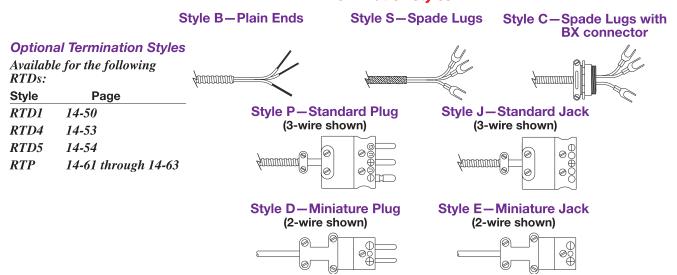
★ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

# Temperature Sensing

## **RTD Termination Styles**

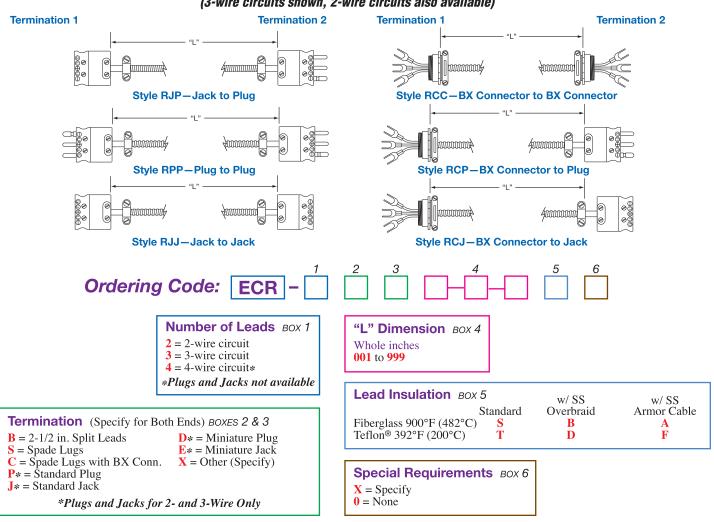


# **RTD** Termination Styles



# **ECR Style RTD Extension Assemblies**

#### (3-wire circuits shown, 2-wire circuits also available)



**MARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.