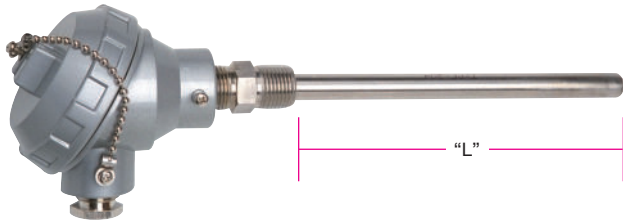


# Temperature Sensing

## Resistance Temperature Sensing



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



#### 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.*

#### 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.*

#### 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.

#### Ordering Code:

**RTD7** -

#### Element BOX 1

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

#### Element Class BOX 2

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

#### 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  
**A** = Alloy 600  
 (Type "M" Only; See Box 10)

#### 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"    **2** = 1/4"    **4** = 1/2"    **6** = 3/4"  
**1** = 1/8"    **3** = 3/8"    **5** = 5/8"    **7** = 7/8"

#### Connection Head BOX 8

**A** = Standard Size Aluminum    **P** = Polypropylene  
**B** = Medium Size Aluminum    **S** = Stainless Steel  
**C** = Miniature Aluminum    **E** = Explosion Proof (Aluminum)  
**H** = Standard Cast Iron    **T** = Explosion Proof (Stainless Steel)  
**F** = Standard Bakelite

*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® 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](http://www.P65Warnings.ca.gov).