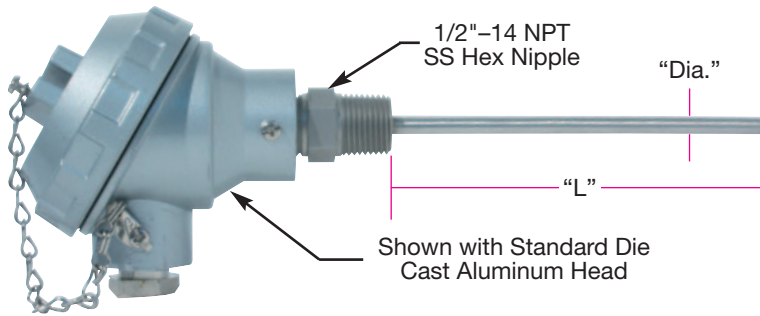


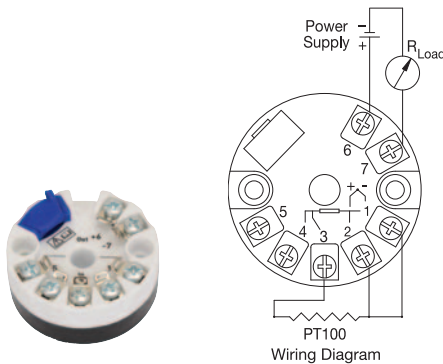


### RTDs with Transmitter and Connection Head



#### Design Features

- \* 100 ohm RTD
- \* 4-20mA Programmable Linear Output Transmitter
- \* Available with Spring-Loaded Sheath
- \* Temperature Range of -58°F to 500°F (-50° to 260°C)
- \* Transmitter Accuracy of  $\pm 0.2\%$  of temperature span
- \* For field programming of the temperature transmitter see Part Number ETM90006 on page 12-45
- \* Available in Single 3-wire Circuit only
- \* 1/2" NPT process connection



Transmitter Ambient Temperature Range:  
-40° to +185°F (-40° to +85°C)  
Refer to page 12-44 for complete details.



EMT10001



EMT20001

See Connection Head Box 7 below.

Refer to page 12-50 for complete Indicator specifications.

### 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: **RTM** -

#### Element Class BOX 1

- A** =  $\pm 0.06\%$  At 0°C (Optional)
- B** =  $\pm 0.12\%$  At 0°C (Standard)

#### Sheath O.D. BOX 2

- F** = .125"
- G** = .188"
- H** = .250"

#### Sheath Material BOX 3

- B** = 304 SS
- C** = 316 SS

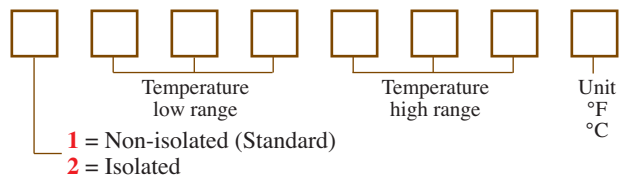
#### Sheath Length "L" BOX 4

Whole inches  
**01** to **99**

#### Sheath Length "L" BOX 5

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"

#### Transmitter Type BOX 6 (Enter Code Below)



#### Connection Head BOX 7

- A** = Standard Aluminum
- B** = Medium Size Aluminum
- S** = Stainless Steel
- P** = Polypropylene Head (FDA Approved)
- H** = Standard Cast Iron
- L** = Aluminum Head with LCD Indicator (EMT10001)
- M** = Heavy Duty Aluminum Head with LCD Indicator (EMT20001)

**Note:** Conduit connection for A, H & S is 1/2", for B is 3/8" NPT, for P is 3/4" NPT. For overall dimensions see pages 14-98 through 14-100.

#### Spring-Loaded Probe BOX 8

- 0** = Not Required
- Y** = Required

#### Special Requirements BOX 9

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

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



## RTD Termination Styles

### RTD Termination Styles

Style B—Plain Ends

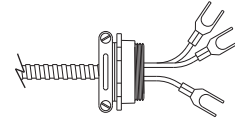
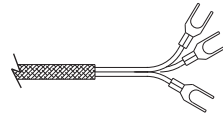
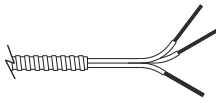
Style S—Spade Lugs

Style C—Spade Lugs with BX connector

#### Optional Termination Styles

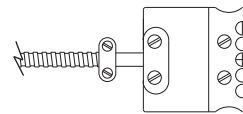
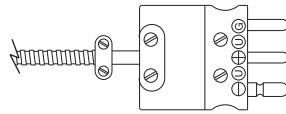
Available for the following RTDs:

| Style | Page                |
|-------|---------------------|
| RTD1  | 14-50               |
| RTD4  | 14-53               |
| RTD5  | 14-54               |
| RTP   | 14-61 through 14-63 |



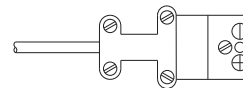
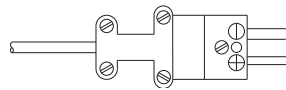
Style P—Standard Plug  
(3-wire shown)

Style J—Standard Jack  
(3-wire shown)



Style D—Miniature Plug  
(2-wire shown)

Style E—Miniature Jack

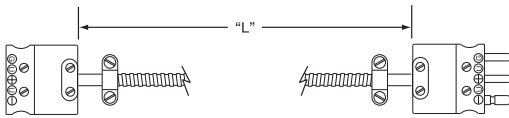


### ECR Style RTD Extension Assemblies

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

Termination 1

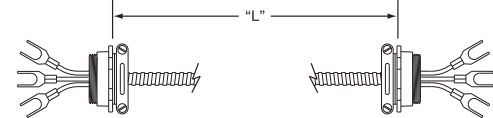
Termination 2



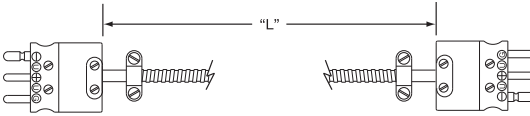
Style RJP—Jack to Plug

Termination 1

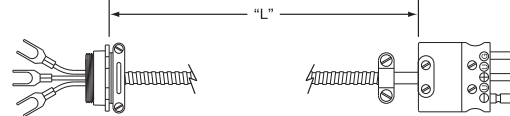
Termination 2



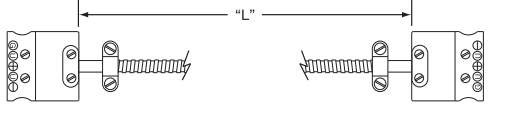
Style RCC—BX Connector to BX Connector



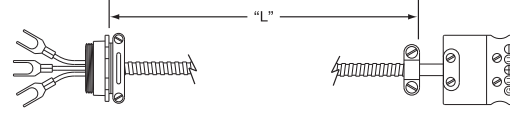
Style RPP—Plug to Plug



Style RCP—BX Connector to Plug



Style RJJ—Jack to Jack



Style RCJ—BX Connector to Jack

Ordering Code: **ECR** -

#### Number of Leads BOX 1

- 2 = 2-wire circuit
- 3 = 3-wire circuit
- 4 = 4-wire circuit\*

\*Plugs and Jacks not available

#### "L" Dimension BOX 4

Whole inches  
001 to 999

#### Lead Insulation BOX 5

|                          | Standard | Overbraided | Armor Cable |
|--------------------------|----------|-------------|-------------|
| 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>    |

#### Termination (Specify for Both Ends) BOXES 2 & 3

- B** = 2-1/2 in. Split Leads
- S** = Spade Lugs
- C** = Spade Lugs with BX Conn.
- P\*** = Standard Plug
- J\*** = Standard Jack
- D\*** = Miniature Plug
- E\*** = Miniature Jack
- X** = Other (Specify)

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

#### Special Requirements BOX 6

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

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