RTDs *with Transmitter and Connection Head*
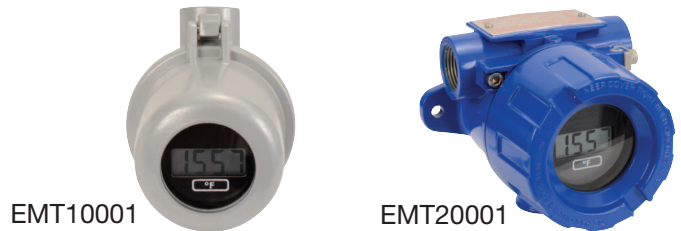
1/2"–14 NPT
SS Hex Nipple

"Dia."

"L"

Shown with Standard Die
Cast Aluminum Head
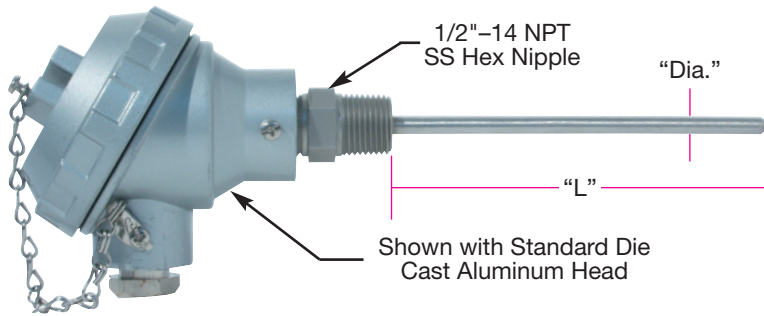
Design Features

✱ *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 +/-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*

Power
Supply
R_{Load}

6
7
5
1
4 3 2

PT100
Wiring Diagram

EMT10001   EMT20001

See Connection Head Box 7 below.
Refer to page 12-50 for complete Indicator specifications.

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

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:

```
        1   2   3   4 — 5      6        7   8   9
RTM  -  [ ][ ][ ][ ]—[ ][          ]   [ ][ ][ ]
```

Element Class *BOX 1*
A = +/-0.06% At 0°C (Optional)
B = +/-0.12% At 0°C (Standard)

Transmitter Type *BOX 6* (Enter Code Below)

[ ] [ ] [ ] [ ] [ ] [ ] [ ]

| | Temperature low range | Temperature high range | Unit °F °C |

1 = Non-isolated (Standard)
2 = Isolated

Sheath O.D. *BOX 2*
F = .125"
G = .188"
H = .250"

Sheath Material *BOX 3*
B = 304 SS
C = 316 SS
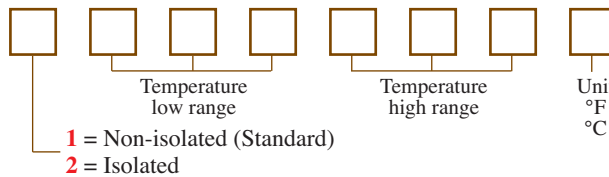
Connection Head *BOX 7*

A = Standard Aluminum
B = Medium Size Aluminum
H = Standard Cast Iron
P = Polypropylene Head (FDA Approved)
S = Stainless Steel

L = Aluminum Head with LCD Indicator (EMT10001)
M = Heavy Duty Aluminum Head with LCD Indicator (EMT20001)
E = Explosion Proof (Aluminum)
T = Explosion Proof (Stainless Steel)

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.

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"

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.

(800) 323-6859 • Email: sales@tempco.com

Made in USA

RTD Termination Styles

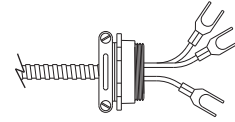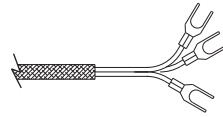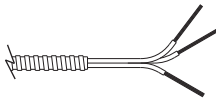### RTD Termination Styles

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)
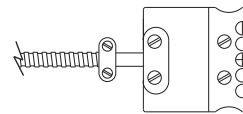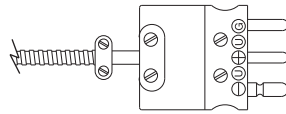
Style D—Miniature Plug
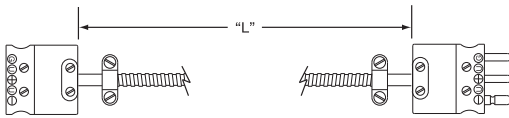**(2-wire shown)**

Style E—Miniature Jack
(2-wire shown)
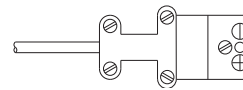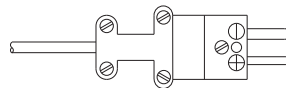
ECR Style RTD Extension Assemblies

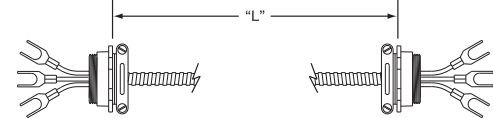**(3-wire circuits shown, 2-wire circuits also available)**
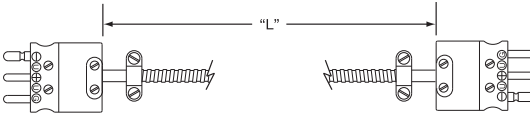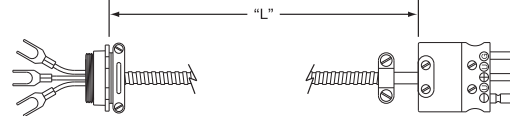
Termination 1   **Termination 2**   **Termination 1**   **Termination 2**

"L"   "L"

Style RJP—Jack to Plug   **Style RCC—BX Connector to BX Connector**

"L"   "L"

Style RPP—Plug to Plug   **Style RCP—BX Connector to Plug**

"L"   "L"
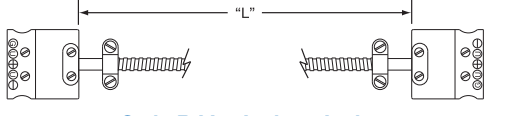
Style RJJ—Jack to Jack   **Style RCJ—BX Connector to Jack**
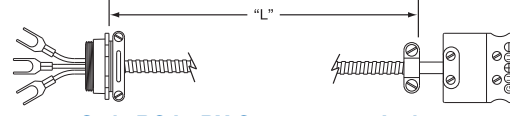
Ordering Code: ECR – ☐ ☐ ☐ ☐☐☐ ☐ ☐
1 2 3 4 5 6

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**

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

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

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

Lead Insulation *BOX 5*

	Standard	w/ SS Overbraid	w/ SS Armor Cable
Fiberglass 900°F (482°C)	**S**	**B**	**A**
Teflon® 392°F (200°C)	**T**	**D**	**F**

Special Requirements *BOX 6*

X = Specify
0 = None

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