**RTDs with Transmitter and Connection Head**

**Transmitter Ambient Temperature Range:**
-40° to +185°F (-40° to +85°C)

Refer to page 12-44 for complete details.

**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 EMT90006 on page 12-45
- Available in Single 3-wire Circuit only
- 1/2" NPT process connection

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

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

**Sheath Length “L”**
- Whole inches
  - 01 to 99

**Ordering Code:**
- RTM

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### 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.

<table>
<thead>
<tr>
<th>Box 1</th>
<th>Box 2</th>
<th>Box 3</th>
<th>Box 4</th>
<th>Box 5</th>
<th>Box 6</th>
<th>Box 7</th>
<th>Box 8</th>
<th>Box 9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Element Class</strong></td>
<td><strong>Sheath O.D.</strong></td>
<td><strong>Sheath Material</strong></td>
<td><strong>Sheath Length “L”</strong></td>
<td><strong>Sheath Length “L”</strong></td>
<td><strong>Transmitter Type</strong></td>
<td><strong>Connection Head</strong></td>
<td><strong>Spring-Loaded Probe</strong></td>
<td><strong>Special Requirements</strong></td>
</tr>
<tr>
<td>A = +/-0.06% At 0°C (Optional)</td>
<td>F = .125”</td>
<td>B = 304 SS</td>
<td>01 to 99</td>
<td>00 to 99</td>
<td></td>
<td></td>
<td></td>
<td>X = Specify</td>
</tr>
<tr>
<td>B = +/-0.12% At 0°C (Standard)</td>
<td>G = .188”</td>
<td>C = 316 SS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0 = Not Required</td>
</tr>
<tr>
<td></td>
<td>H = .250”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y = Required</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**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.

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

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Temperature Sensing

RTD Termination Styles

RTD Termination Styles

Optional Termination Styles
Available for the following RTDs:

<table>
<thead>
<tr>
<th>Style</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTD1</td>
<td>14-50</td>
</tr>
<tr>
<td>RTD4</td>
<td>14-53</td>
</tr>
<tr>
<td>RTD5</td>
<td>14-54</td>
</tr>
<tr>
<td>RTP</td>
<td>14-61 through 14-63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Plain Ends</td>
</tr>
<tr>
<td>S</td>
<td>Spade Lugs</td>
</tr>
<tr>
<td>C</td>
<td>Spade Lugs with BX connector</td>
</tr>
<tr>
<td>P</td>
<td>Standard Plug</td>
</tr>
<tr>
<td>J</td>
<td>Standard Jack</td>
</tr>
<tr>
<td>D</td>
<td>Miniature Plug</td>
</tr>
<tr>
<td>E</td>
<td>Miniature Jack</td>
</tr>
<tr>
<td>C</td>
<td>Spade Lugs with BX connector</td>
</tr>
</tbody>
</table>

ECR Style RTD Extension Assemblies
(3-wire circuits shown, 2-wire circuits also available)

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
- Overbraid
- Armor Cable

Fiberglass 900°F (482°C)
Teflon® 392°F (200°C)

Special Requirements **BOX 6**

- X = Specify
- 0 = None

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

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

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