Style RTD8 — Connection Head with 1/2" NPT Pipe 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.
- Pipe Nipple is galvanized.

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 10 11 12

RTD8

Element BOX 1
S = 100Ω Single  K = 1000Ω Single
D = 100Ω Dual  L = 1000Ω Dual
TCR = 0.00385 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 11)

Sheath Length “L1” BOX 6
Whole inches
01 to 99
For lengths over 99 in. consult TEMPCO.

Sheath Length “L1” BOX 7
Fractional inches
0 = 0” 2 = 1/4” 4 = 1/2”
1 = 1/8” 3 = 3/8” 5 = 5/8”
6 = 3/4” 7 = 7/8”

“L2” 1/2” NPT Nipple Length BOX 8
Whole inches 03 to 18
For lengths over 18 in. consult TEMPCO.
Standard Lengths S1 = 1”, S2 = 2-1/2”, S3 = 5-1/2”

Connection Head BOX 9
A = Standard Size Aluminum  S = Stainless Steel
B = Medium Size Aluminum  F = Standard Bakelite
C = Miniature Aluminum  P = Polypropylene
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 Terminal Block BOX 10
O = Not Required
Y = Required

RTD Construction Type BOX 11
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 12
X = Specify
0 = None

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

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>

RTD Termination Styles

- **Style B**—Plain Ends
- **Style S**—Spade Lugs
- **Style C**—Spade Lugs with BX connector

- **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**

- **Style RJP**—Jack to Plug
- **Style RCC**—BX Connector to BX Connector
- **Style RPP**—Plug to Plug
- **Style RJJ**—Jack to Jack

**Termination 2**

- **Style RCP**—BX Connector to Plug
- **Style RCJ**—BX Connector to Jack

Ordering Code: **ECR**

<table>
<thead>
<tr>
<th>Number of Leads</th>
<th><strong>BOX 1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2-wire circuit</td>
</tr>
<tr>
<td>3</td>
<td>3-wire circuit</td>
</tr>
<tr>
<td>4</td>
<td>4-wire circuits*</td>
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</table>

*Plugs and Jacks not available

<table>
<thead>
<tr>
<th>“L” Dimension</th>
<th><strong>BOX 4</strong></th>
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<tbody>
<tr>
<td>Whole inches</td>
<td>001 to 999</td>
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<table>
<thead>
<tr>
<th>Lead Insulation</th>
<th><strong>BOX 5</strong></th>
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</thead>
<tbody>
<tr>
<td>Standard Fiberglass 900°F (482°C)</td>
<td>S</td>
</tr>
<tr>
<td>Teflon® 392°F (200°C)</td>
<td>T</td>
</tr>
<tr>
<td>w/ SS</td>
<td>B</td>
</tr>
<tr>
<td>w/ SS Armor Cable</td>
<td>A</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Requirements</th>
<th><strong>BOX 6</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Specify</td>
</tr>
<tr>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

**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

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

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