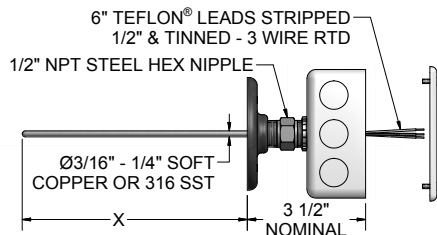


The averaging RTD sensor listed below measures the temperature over the entire sheath length to provide an average temperature measurement of the cross sectional area of air ducts, room gradient temperatures, and other low temperature averaging applications. The sensing element has a resistance output that conforms to a 100 Ω platinum element with a 0.003 85 °C<sup>-1</sup> temperature coefficient within a measurement range of (0 to 100) °C [32 to 212] °F. The RTD sensors are available in copper or 316 stainless steel sheath materials and can be supplied in various lengths up to 828 inches. All RTD sensors 48 inches and longer will be shipped in a coiled configuration. The sensors on this page can be provided with a (4 to 20) mA Transmitter integrally mounted inside the available enclosures.



### ORDER CODES

**Example Order Number:**

**2290L 4(23)3 - 120 - 8HN 47, HT**

#### 1 RTD Averaging Sensor

| CODE  | DESCRIPTION                            |
|-------|--|
| 2290L | 3-wire continuous averaging RTD sensor |

#### 2 Sheath Material and Diameter

| CODE   | DESCRIPTION       |          |
|--------|-------------------|----------|
|        | DIAMETER (inches) | MATERIAL |
| 3(23)3 | 3/16              | Copper   |
| 4(23)3 | 1/4               | Copper   |
| 383    | 3/16              | 316 SS   |
| 483    | 1/4               | 316 SS   |

#### 3 Length

| AVAIL. LENGTHS (inches) | DIAMETER O.D. (inches) | BENDABILITY |
|-------------------------|------------------------|-------------|
| 12                      | 3/16, 1/4              | Rigid       |
| 24                      | 3/16, 1/4              | Rigid       |
| 36                      | 3/16, 1/4              | Rigid       |
| 37 to 324               | 3/16, 1/4              | Bendable    |
| 325 to 828              | 1/4                    | Bendable    |

Specify length in inches using 3 digits.

Initial averaging RTD accuracy calculation:  $\pm [1.3 + 0.005 |t|]$  °C  
 |t| = Value of temperature without regard to sign, °C

| TEMPERATURE    | °C  | °F  | TEMPERATURE     | °C  | °F  |
|----------------|-----|-----|-----------------|-----|-----|
| 0 °C [32 °F]   | 1.3 | 2.3 | 60 °C [140 °F]  | 1.6 | 2.9 |
| 20 °C [68 °F]  | 1.4 | 2.5 | 80 °C [176 °F]  | 1.7 | 3.1 |
| 40 °C [104 °F] | 1.5 | 2.7 | 100 °C [212 °F] | 1.8 | 3.2 |

#### 4 Head Mounting Fittings

| CODE | DESCRIPTION                                |
|------|--|
| 8HN  | 1/2" x 1/2" NPT stainless steel hex nipple |
| 6HN  | 1/2" x 1/2" NPT steel hex nipple           |

#### 5 Terminations

| CODE    | DESCRIPTION   |
|---------|---|
| 22(06)  | 6" individual Teflon® leads with terminal pins            |
| 31      | Aluminum screw-cover head                                 |
| 49      | Flip-top aluminum head                                    |
| 47      | 2" x 4" electrical handibox                               |
| Options |   |
| HT      | Floor flange threaded on hex                              |
| T-440   | 4-20 mA head-mounted transmitter (see instrument section) |

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