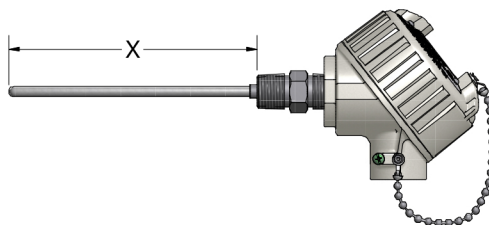


# HAZARDOUS LOCATION

Configuration Code XP01  
Hazardous Location Explosion-Proof-Certified,  
Fixed-Element RTD Assemblies

Explosion-Proof, Fixed-Element RTDs are made for use in U.S. and Canadian hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. FM and CSA certified assemblies, dependent on connection head type, meet XP Class I Division I & II; Groups A, B, C, D; DIP Class II Division I; Groups E, F, G; Class III; Type 4/4X. They may be installed directly in the process without being inserted into a thermowell. The assemblies feature 316 stainless steel sheaths in various diameter sizes. They are available with or without process mountings and with aluminum or stainless steel explosion-proof connection heads.



## ORDER CODES

**Example  
Order Number:**

1-0 2-0 2-1 2-2 3-0 4-0 5-0 5-1 5-2  
**XP - R1T185L 48 3 - 012 - 00 - 8HN 94, T-** Select Type and Range from back of Section

### 1-0 Agency Approval

| CODE | DESCRIPTION                               |
|------|---|
| XP   | FM/CSA explosion-proof-certified assembly |

### 2-0 100 $\Omega$ Platinum RTD Elements $\alpha = 0.00385\ ^\circ\text{C}^{-1}$

| CODE    |         | TOLERANCE <sup>[1]</sup> | TEMP. RANGE                    |
|---------|---------|--------------------------|--------------------------------|
| SINGLE  | DUPLEX  |                          |                                |
| R1T185L | R1T285L | Grade B                  | (-200 to 200) $^\circ\text{C}$ |
| R5T185L | R5T285L | (1/5) Class B            | (-30 to 150) $^\circ\text{C}$  |
| RBF185L | RBF285L | Class B                  | (-50 to 200) $^\circ\text{C}$  |
| RAF185L | RAF285L | Class A                  | (-30 to 200) $^\circ\text{C}$  |
| R1T185H | R1T285H | Grade B                  | (-200 to 600) $^\circ\text{C}$ |
| RAT185H | RAT285H | Class A                  | (-100 to 450) $^\circ\text{C}$ |

[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

### 2-1 Sheath Diameters 316 SS

| CODE              | DIAMETERS (inches) |
|-------------------|--------------------|
| 28 <sup>[1]</sup> | 1/8                |
| 38                | 3/16               |
| 48                | 1/4                |
| 68                | 3/8                |

[1] Not available in duplex

### 2-2 Element Connection

| CODE             | DESCRIPTION    |
|------------------|----------------|
| 2                | 2-wire element |
| 3                | 3-wire element |
| 4 <sup>[1]</sup> | 4-wire element |

[1] Not available in duplex or with 440 Series Transmitter

### 5-1 Head Terminations

| CODE      | DESCRIPTION   |
|-----------|---|
| 74        | DIN form B aluminum explosion-proof head  |
| 75T-642B  | (4 to 20) mA HART <sup>®</sup> Field Transmitter with aluminum explosion-proof housing                                |
| 76T82-D10 | (4 to 20) mA dual input HART <sup>®</sup> Field Transmitter with digital display and explosion-proof aluminum housing |
| 77T-662C  | (4 to 20) mA HART <sup>®</sup> Field Transmitter with dual cavity explosion-proof aluminum housing                    |
| 93        | Aluminum explosion-proof head   |
| 94        | 316L stainless steel explosion-proof head   |

### 5-2 Options

|                      |  |
|----------------------|--|
| SB                   | 1/2" NPT conduit reducer bushing   |
| I                    | Stainless steel tag  |
| T-440 <sup>[1]</sup> | (4 to 20) mA head-mounted transmitter  |
| T-441                | (4 to 20) mA isolated head-mounted transmitter                               |
| T-442                | (4 to 20) mA HART <sup>®</sup> isolated head-mounted transmitter             |
| T82-00               | (4 to 20) mA dual input, isolated HART <sup>®</sup> head-mounted transmitter |

See transmitter ordering information in back of section.

[1] Not available with option 74

### 5-0 Head Mounting Fittings

| CODE   | DESCRIPTION  |
|--------|--|
| 6HN    | 1/2" x 1/2" NPT steel hex nipple 1" "E" length           |
| 8HN    | 1/2" x 1/2" NPT stainless steel hex nipple 1" "E" length |
| 9HP    | 1/2" NPT stainless steel bushing (no process threads)    |
| 8RNDNC | 3/4" x 1/2" NPT stainless steel hex nipple               |

### 4-0 Sheath Mounting Fittings

| CODE | DESCRIPTION |
|------|-------------|
| 00   | No Fitting  |

### 3-0 "X" Dimensions

Insert three digit sheath length ("X" Dimension) in inches.

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