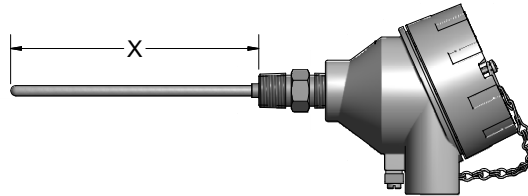


Explosion-Proof, Fixed-Element RTDs are made for use in U.S. and Canadian hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. FM and CSA approved assemblies, dependent on connection head type, meet XP Class I, Division 1, Group A, B, C and D; DIP Class II, Division I, Groups E, F, G, and Class III, Division 1. 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 74, T-** Select Type and Range from back of Section

### 1-0 Agency Approval

CODE	DESCRIPTION
XP	FM/CSA explosion-proof-approved assembly

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

CODE		TOLERANCE <sup>[1]</sup>
LOW RANGE WIRE WOUND (-200 to 200) °C		
<b>SINGLE</b>	<b>DUPLEX</b>	
R1T185L	R1T285L	Grade B
R5T185L	R5T285L	(1/5) Class B
LOW RANGE THIN FILM (-50 to 200) °C		
RBF185L	RBF285L	Class B
RAF185L	RAF285L	Class A
HIGH RANGE WIRE WOUND (-200 to 600) °C		
R1T185H	R1T285H	Grade B
RAT185H	RAT285H	Class A

[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
71	Cast iron/aluminum explosion-proof head Group C
72	DIN form B aluminum explosion-proof head Group B
74	DIN form B aluminum explosion-proof head Group A
75T-642B	(4 to 20) mA HART® Field Transmitter with aluminum explosion-proof housing, Group A
81	316L stainless steel explosion-proof head Group C
82	DIN form B 316 stainless steel explosion-proof head Group B

### 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 <sup>[2]</sup>	(4 to 20) mA isolated head-mounted transmitter
T-442 <sup>[2]</sup>	(4 to 20) mA Hart® isolated head-mounted transmitter

See transmitter ordering information in back of section.

[1] Only available with option 71 or 81

[2] Not available with option 71 or 81

### 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)
8RNDC	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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