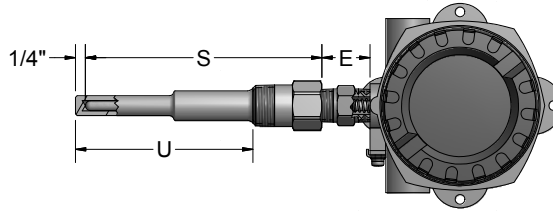


Explosion-Proof RTD Assemblies with Thermowells are made for use in U.S. and Canadian hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. FM and CSA approved assemblies, dependant on connection 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. The required thermowell is available in standard, heavy-duty, and flanged constructions. The assemblies feature 316 stainless steel sheaths. They are available with aluminum or stainless steel explosion-proof connection heads.



ORDER CODES

**Example
 Order Number:**

XP - **R1T185L** **48** **3** - Select Thermowell Part # from Thermowell Section - **SC** - **8HN** **75T-642B**, **I** 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 ^[1]
LOW RANGE WIRE WOUND (-200 to 200) °C		
SINGLE	DUPLEX	
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)
48	1/4

2-2 Element Connection

CODE	DESCRIPTION
2	2-wire
3	3-wire
4 ^[1]	4-wire

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

3-0 Thermowell

Select thermowell part number from Thermowell Section.

4-0 Element Options

CODE	DESCRIPTION
SL ^[1]	Spring-loaded element
SC	Self-contained, spring-loaded element

[1] Not available with option 75T-642B

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 ^[1]	(4 to 20) mA head-mounted transmitter
T-441 ^[2]	(4 to 20) mA isolated head-mounted transmitter
T-442 ^[2]	(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	CODE	DESCRIPTION
STEEL FITTINGS		316SS FITTINGS	
6HN	1/2" x 1/2" NPT hex nipple 1" length	8HN	1/2" x 1/2" NPT hex nipple 1" length
6PN ₋	1/2" NPT pipe nipple (specify "E" length in inches)	8PN	1/2" NPT pipe nipple (specify "E" length in inches)
6XU ₋₁	1/2" NPT union/nipple (specify "E" length in inches)	8XU ₋₁	1/2" NPT union/nipple (specify "E" length in inches)

[1] 3 1/2" Minimum length required. Maximum allowable "E" length is 9"

Hart® is a registered trademark of the HART Communication Foundation.