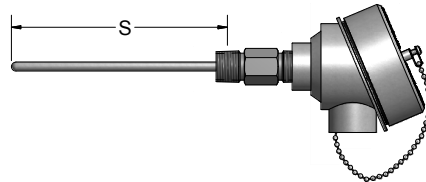


Explosion-Proof, Spring-Loaded RTDs are made for use in U.S. and Canadian hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. FM and CSA approved assemblies, dependant on connection head type, meet XP Class I, Division 1, Group B, C and D; DIP Class II, Division I, Groups E, F, G and Class III, Division 1. Pyromation provides sensors for installation into your existing thermowell or provides the required thermowell as part of the assembly. Refer to the Thermowell Section of this catalog for product selection. The assemblies feature 316 stainless steel sheaths. They are available with aluminum or stainless steel explosion-proof connection heads. **Note:** The "S" dimension will measure 1/4" longer than specified when the spring is in the relaxed position. The "S" dimension is calculated when the sensor is compressed or in the installed position. This design allows 1/4" spring compression to ensure positive contact with the bottom of the thermowell.



ORDER CODES

Example Order Number: **XP** - **R1T185L** **48** **3** - **006** - **FP** - **8HN** **81**, **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 ^[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

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
75T-642D	(4 to 20) mA HART® Field Transmitter with aluminum explosion-proof housing, Group B
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
316 STAINLESS STEEL FITTINGS	
8HN	1/2" NPT flame-path fitting (1-1/2" "E" length)
8PU4 ^[1]	1/2" NPT union/nipple with flame-path fitting (specify "E" length in inches, maximum allowable 9")

[1] For longer lengths replace "4" with length in inches.

4-0 Element Options

FP	Spring-loaded element with flame path
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3-0 "S" Dimensions

Insert three digit sheath length ("S" Dimension) in inches

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