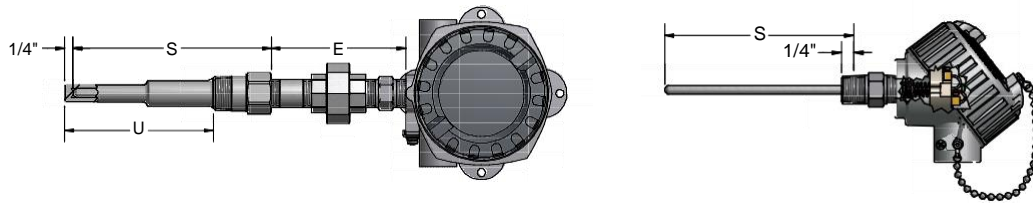


Sensors with Connection Heads

Configuration Code GP03 Spring-Loaded RTD/Thermowell Assemblies with Explosion-Proof Connection Heads

Spring-Loaded RTD/Thermowell Assemblies with Explosion-Proof Connection Heads are designed for use with various thermowell types. Complete assemblies can be ordered by selecting the RTD assembly below, the thermowell from the thermowell section of this catalog, and a temperature transmitter from the back of this section. Assemblies without a thermowell can be ordered by selecting the sensor assembly from this page and inserting the "S" length in table 2-0. These sensors are supplied with a 316 stainless steel sheath and are available in various tolerances and temperature ranges as noted in the tables below.



ORDER CODES

Example Order Number: **RBF185L** **48** **3** - **SL** - **8HN** **93**, **T** - **T**

1-0 1-1 1-2 2-0 3-0 4-0 4-1 4-2

Select Thermowell Part # or Insert 3 Digit Length Code

Select Type and Range from back of section

1-0 100 Ω Platinum RTD Elements α = 0.003 85 °C⁻¹

CODE		TOLERANCE ^[1]	TEMP. RANGE
SINGLE	DUPLEX		
R1T185L	R1T285L	Grade B	(-200 to 200) °C
R5T185L	R5T285L	(1/5) Class B	(-30 to 150) °C
RBF185L	RBF285L	Class B	(-50 to 200) °C
RAF185L	RAF285L	Class A	(-30 to 200) °C
R1T185H	R1T285H	Grade B	(-200 to 600) °C
RAT185H	RAT285H	Class A	(-100 to 450) °C

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

1-1 Sheath Diameters

CODE	DIAMETERS (inches) 316 SS
38	3/16
48	1/4

1-2 Element Connection

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

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

2-0

Select thermowell part number from Thermowell Section, or specify 3 digit "S" length in inches if no thermowell is required.

4-1 Head Terminations

CODE	DESCRIPTION
74	Dual conduit DIN form B aluminum explosion-proof/flame-proof head, NEC, IEC, ATEX approved
75T-642C	(4 to 20) mA HART [®] field transmitter with aluminum explosion-proof housing, Group A
76T82-D10	(4 to 20) mA dual input HART [®] field transmitter with digital display and explosion-proof aluminum housing, Group A
77T-662C	(4 to 20) mA HART [®] field transmitter with dual cavity explosion-proof aluminum housing, Group A
93	Aluminum explosion-proof/flame-proof head, NEC, IEC, ATEX approved
94	316L stainless steel explosion-proof/flame-proof head, NEC, IEC, ATEX approved

4-2 Options

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

See transmitter ordering information in back of section.

[1] Not available with option 74.

4-0 Head Mounting Fittings

CODE	DESCRIPTION	CODE	DESCRIPTION
<i>STEEL FITTINGS</i>		<i>316SS FITTINGS</i>	
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

3-0 Element Options

CODE	DESCRIPTION
SL ^[1]	Spring-loaded element
SC	Self-contained spring-loaded element
SN	Self-contained spring-loaded element with Buna-N oil seal 121°C [250°F] 100 PSI Max.

[1] Not available with option 75T, 76T, or 77T

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