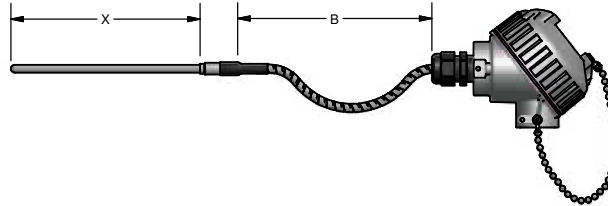


# HAZARDOUS LOCATION

Configuration Code XP09  
Hazardous Location Non-Incendive Certified  
Remote-Mount RTD Sensors

Hazardous location certified Remote-mounted RTD assemblies are designed for applications where space is limited, or where high ambient temperatures or excessive heat conduction exists. These products are CSA Certified for use in US and Canada hazardous locations designated: Class I, Division 2, Group A,B,C,D; Class II, Division 2, Group F,G; Class III; and USA: Class I, Zone 2, Group IIC; Zone 22, Group IIIB; Zone 22, Group IIIC; T6...T1: with nonincendive field wiring, Ingress Protection: IP56. The service temperature range for Certified Assemblies is limited to -25°C to 435°C and the T-code corresponds to the higher of ambient or process temperature. These assemblies are available in a variety of element types, accuracies, sheath diameters, process connections, and head options. They are also available with a variety of optional head-mounted temperature transmitters. Total sensor length cannot exceed 25 feet.



## ORDER CODES

**Example  
Order  
Number:**

1-0 1-1 1-2 1-3 2-0 3-0 4-0 5-0 6-0 6-1  
**HL05 - R1T185L 48 3 - 012 - 00 - 16 - T3P048 - AG 31,OR,GS**

### 1-0 Agency Approval

CODE	DESCRIPTION
HL05	CSA Non-Incendive Class I Division II Certified

### 1-1 Pt100 ( $\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$ ) RTD Assemblies

CODE		TOLERANCE <sup>[1]</sup>	TEMPERATURE 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 450°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.

### 1-2 Sheath - 316 SS

CODE	DIAMETER (inches)
38	3/16"
48	1/4"
68	3/8"

### 1-3 Element Connection

CODE	DESCRIPTION
3	3 wires
4	4 wires

### 2-0 Sheath Length

Specify 3 digit "X" length in inches

### 3-0 Sheath Mounting Fittings

CODE	DESCRIPTION	NPT SIZE (inches)
00	No fitting or bushing	
<b>COMPRESSION FITTINGS</b>		
05A	316 SS One-time adjustable	1/8"
05B	316 SS One-time adjustable	1/4"
05C	316 SS One-time adjustable	1/2"
12A	316 SS Readjustable	1/8"
12B	316 SS Readjustable	1/4"
12C	316 SS Readjustable	1/2"
19C	303 SS Spring-loaded well fitting	1/2"

### 6-1 Head Terminations

CODE	DESCRIPTION
31,OR,GS	Aluminum screw-cover head, Class I Div II; Type 4X/IP66
34,OR,GS	Cast Iron screw-cover head, Class I Div II; Type 4X/IP66
91,OR,GS	316L stainless steel screw-cover head, Class I Div II; Type 4X/IP66

#### Options

I	Stainless Steel Tag
SB	1/2" NPT conduit reducer bushing
T71	(4 to 20) mA isolated head-mounted transmitter
T72	(4 to 20) mA isolated HART® head-mounted transmitter
T82-00	(4 to 20) mA isolated HART® dual Input head-mounted transmitter

### 6-0 Head Mounting Fittings

CODE	DESCRIPTION
8HN	1/2" x 1/2" NPT Stainless steel hex nipple
9HP	1/2" NPT Stainless steel bushing (no process threads)
8RNDC	1/2" x 3/4" NPT Stainless steel hex nipple
CG	Nylon cord grip
AG	Aluminum cord grip

### 4-0 Leadwire Transitions

CODE	DESCRIPTION
15	Extension leadwire transition with relief spring 204°C
16	Extension leadwire transition with heat-shrink tubing 104°C
19	Extension leadwire transition with no strain relief 204°C

### 5-0 Extension Leadwire "B" Dimensions

CODE	DESCRIPTION
T3A <sup>[1]</sup>	Fluoropolymer insulation, stranded conductor, flexible armor
T3P <sup>[1]</sup>	Fluoropolymer insulation, stranded conductor, PVC-coated flexible armor
T3T <sup>[1]</sup>	Fluoropolymer insulation, stranded conductor, FEP-coated flexible armor

[1] Insert 3 digit "B" length in inches.

