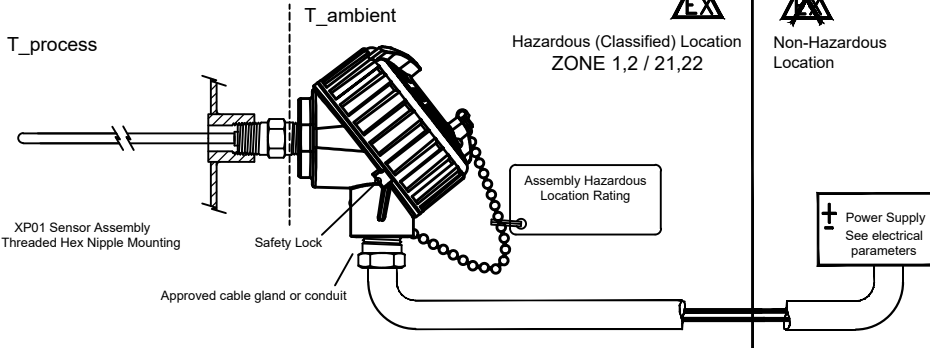


Max. Process Temperature: 180°C

Note: Ambient temperature ratings are a function of enclosure & termination options, see T_ambient table

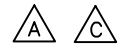


Installation Notes for configuration codes XP01

- WARNING: Substitution of components may impair suitability for approved classification.
- WARNING: Do not open enclosure or disconnect supply lines while circuit is under power and when an explosive atmosphere is present.
- Approved Apparatus must be installed in accordance with these manufacturer instructions and per relevant codes, standards and regulations (i.e. IEC 60079-0, IEC 60079-1, IEC 60079-14, IEC 60079-31).
- Keep enclosure cover closed tightly and safety lock engaged when circuits are powered and an explosive atmosphere is present. Enclosures 93 & 94 require 1/16" hexagonal wrench, enclosures 75 & 77 require 3mm hexagonal wrench to engage safety lock.
- T-Code is determined by maximum measured process temperature T_process.
- Seal all unused entries with appropriate blanking element approved for area and protection type.
- Sensor assemblies are supplied without blanking elements, conduit seals or cable glands. Installer should select appropriate blanking elements, conduit seals or cable glands that are suitable for the area and protection type. Follow relevant codes, standards and regulations (i.e. IEC 60079-0, IEC 60079-1, IEC 60079-14, IEC 60079-31).
- Supply wires and cable glands must be rated 10°C above maximum T_ambient for enclosures 93 & 94 and rated 25°C above maximum T_ambient for enclosures 75 & 77.
- All sensor pipe and conduit threaded connections to be made wrench tight.

CE 2813 II 2 GD Sira 18ATEX1250X
 Ex db IIC T6...T4 Gb Tamb=(See Table)
 Ex tb IIIC T60°C...T110°C Db Tamb=(See Table)
 IP66

IECEx SIR 18.0065X
 Ex db IIC T6...T4 Gb Tamb=(See Table)
 Ex tb IIIC T60°C...T110°C Db Tamb=(See Table)
 IP66



Specific Conditions of Use

- Contact the manufacturer if dimensional information of flameproof joints is needed.
- Field connections to the XP sensors shall be appropriately certified for the location and installed in accordance with wiring method requirements of the local electrical code as applicable.
- Heat transfer from the process must not cause the XP sensor enclosure to exceed the T-code (gas) or Surface Temperature (dust) rating of the sensor assembly. (T6 ≤ +85°C; T5 ≤ +100°C) Therefore, it is end-user's responsibility to ensure that the ambient around the XP sensor enclosure does not exceed the permitted ambient. Prevention measures include installing suitable insulation or an assembly with suitable length sheath or lagging.
- The ranges of stopping plugs shall not be used in conjunction with any other cable entry device.
- Reducers shall not be used for the direct inter-connection of enclosures.
- Any un-used enclosure entry must be filled with a properly certified Ex "db tb" IP66 stopping plug \ blanking element.
- For class III (dust), enclosure 93 w/ option AD; electrostatic charging of external surfaces shall be avoided.

PART NUMBER LAYOUT



APPROVAL	DESCRIPTION
HL06	ATEX / IECEx

SHEATH LENGTH	
CODE	DESCRIPTION
XXX(Y/V)	THREE DIGIT SHEATH LENGTHW / FRACTION IN PARENTHESIS

SHEATH MOUNTING FITTINGS	
CODE	DESCRIPTION
00	NO FITTING

HEAD MOUNTING FITTING	
CODE	DESCRIPTION
6HN	1/2 X 1/2 NPT STEEL HEX NIPPLE
8HN	1/2 X 1/2 NPT STAINLESS HEX NIPPLE
9HP	1/2 NPT 304 STAINLESS BUSHING
8RND	3/4 X 1/2 NPT STAINLESS REDUCING NIPPLE

HEAD TERMINATION	
CODE	DESCRIPTION
*75T-64ZE	(4 to 20) mA HART® FIELD TRANSMITTER W/ ALUMINUM ENCLOSURE
*77T-66ZE	(4 to 20) mA HART® FIELD TRANSMITTER W/ ALUMINUM DUAL CAVITY ENCLOSURE
93	SINGLE CONDUIT, ALUMINUM ENCLOSURE
94	SINGLE CONDUIT STAINLESS STEEL ENCLOSURE

HEAD TERMINATION OPTIONS	
CODE	DESCRIPTION
SB	1/2" NPT CONDUIT REDUCER BUSHING, ALUMINUM
I	STAINLESS STEEL TAG
M2	M20X1.5 CONDUIT REDUCER BUSHING, NICKEL PLATED BRASS
M5	M25X1.5 CONDUIT REDUCER BUSHING, NICKEL PLATED BRASS
AD	TYPE II ANODIZE, ENCLOSURE 93 ONLY
*T-441	4 to 20 mA ISOLATED HEAD-MOUNTED TRANSMITTER
*T-442	4 to 20 mA HART® ISOLATED HEAD-MOUNTED TRANSMITTER
*T82-00	4 to 20 mA DUAL INPUT, HART® ISOLATED HEAD-MOUNTED TRANSMITTER

*TRANSMITTER ORDER CODE CONTAINS ORDER SPECIFIC CALIBRATION INFORMATION THAT IS NOT SAFETY RELATED

SENSOR ELEMENT	
CODE	DESCRIPTION
R1T185L	SINGLE ELEMENT, LOW TEMP. GRADE B
R5T185L	SINGLE ELEMENT, LOW TEMP. 1/5 CLASS B
RB1T185L	SINGLE ELEMENT, LOW TEMP. CLASS B
RAF185L	SINGLE ELEMENT, LOW TEMP. CLASS A
R1T185H	SINGLE ELEMENT, HIGH TEMP. GRADE B
RAT185H	SINGLE ELEMENT, HIGH TEMP. CLASS A
R1T285L	DUPLEX ELEMENT, LOW TEMP. GRADE B
R5T285L	DUPLEX ELEMENT, LOW TEMP. 1/5 CLASS B
RB1T285L	DUPLEX ELEMENT, LOW TEMP. CLASS B
RAF285L	DUPLEX ELEMENT, LOW TEMP. CLASS A
R1T285H	DUPLEX ELEMENT, HIGH TEMP. GRADE B
RAT285H	DUPLEX ELEMENT, HIGH TEMP. CLASS A
R1T385L	SINGLE ELEMENT, HIGH TEMP. CLASS AA
RAF185H	SINGLE ELEMENT, HIGH TEMP. CLASS A
R1T385H	SINGLE ELEMENT, HIGH TEMP. CLASS B
RAF185H	SINGLE ELEMENT, HIGH TEMP. CLASS A
R1T385L	DUPLEX ELEMENT, LOW TEMP. CLASS AA
RAF285H	DUPLEX ELEMENT, HIGH TEMP. CLASS B
RAF285H	DUPLEX ELEMENT, HIGH TEMP. CLASS A
RB1T385L	SINGLE ELEMENT, HIGH TEMP. CLASS B
RB1T385L	DUPLEX ELEMENT, HIGH TEMP. CLASS B

SHEATH DIMENSION	
CODE	Diameter (inches)
2	1/8
3	3/16
4	1/4
6	3/8

SHEATH MATERIAL	
CODE	DESCRIPTION
6	304 STAINLESS STEEL
3	AL6060

ELEMENT CONNECTION	
CODE	DESCRIPTION
2	2 Wires
3	3 Wires
4	4 Wires

EXAMPLE PART NUMBER:

HL06-R1T185L483-012(1/2)-00-8HN93,I,T442-385U-S(0-100)C

HL06-R1T185L483-012(1/2)-00-8HN75T-64ZE-385U-S(0-100)C,I

Enclosure	Termination	**Ambient Temperature Range & T-Code & Dust Surface Temperature
75, 77	T-64ZE / T-66ZE / T-64ZE-D / T-66ZE-D	-40 TO +55°C T6 Gb T110°C Db
		-40 TO +70°C T5 Gb T110°C Db
93	Terminal Block	-40 TO +80°C T4 Gb T110°C Db
		-20 TO +80°C T6 Gb T80°C Db
93	T-441, T-442, T82-00	-20 TO +85°C T5 Gb T95°C Db
		-20 TO +55°C T6 Gb T65°C Db
94	Terminal Block	-20 TO +70°C T6 Gb T80°C Db
		-20 TO +85°C T5 Gb T95°C Db
94	T-441, T-442, T82-00	-40 TO +80°C T6 Gb T80°C Db
		-40 TO +70°C T6 Gb T80°C Db
94	T-441, T-442, T82-00	-40 TO +85°C T5 Gb T95°C Db
		-40 TO +55°C T6 Gb T65°C Db

Electrical Parameters		
Termination	Input	Output
Terminal Block	NA	NA
*T-441	8 - 30 Vdc, 25 mA	4-20 mA
*T-442	11.5 - 30 Vdc, 25 mA	4-20 mA
*T82-00	11 - 42 Vdc, 25 mA	4-20 mA
*T-642	11 - 40 Vdc, ≤3 W	4-20 mA
*T-662	11 - 40 Vdc, ≤3 W	4-20 mA

*For assemblies with transmitter terminations refer to the appropriate transmitter instruction manual for additional instructions

Enclosure Code	# Conduit Entries	Thread Size
93 & 94	1	3/4-14 NPT
75	2	1/2-14 NPT
77	1	1/2-14 NPT

			PART NO:	FOR:
			SPEC NO:	CONFIGURATION CODES XP01, RTD SENSOR ASSEMBLY
				TITLE: INSTALLATION INSTRUCTION - ATEX / IECEx db, tb ASSEMBLIES
			TOLERANCES	SIZE: DWG. NO: H0687 SHEET: 01 REV. C
C	ADD ELEMENTS, MATERIAL ALLOY 600, PART NUMBER NOTES, OPTION AD, ADDED SPECIFIC CONDITION OF USE vii	5/10/2021	FRACTION DIM =	SCALE: 1:1 DATE: 07/20/2015
B	UPDATE NOTIFIED BODY NUMBER TO 2813, WAS 0518	10/08/19	DECIMAL DIM .XX =	
A	UPDATE "SPECIFIC CONDITIONS OF USE" NOTE	04/25/19	DECIMAL DIM .XXX =	
			ANGULAR DIM =	
	REVISION	DATE	This document is PROPRIETARY to Pyromation, Inc.	
			 FORT WAYNE, INDIANA 260-484-2580	