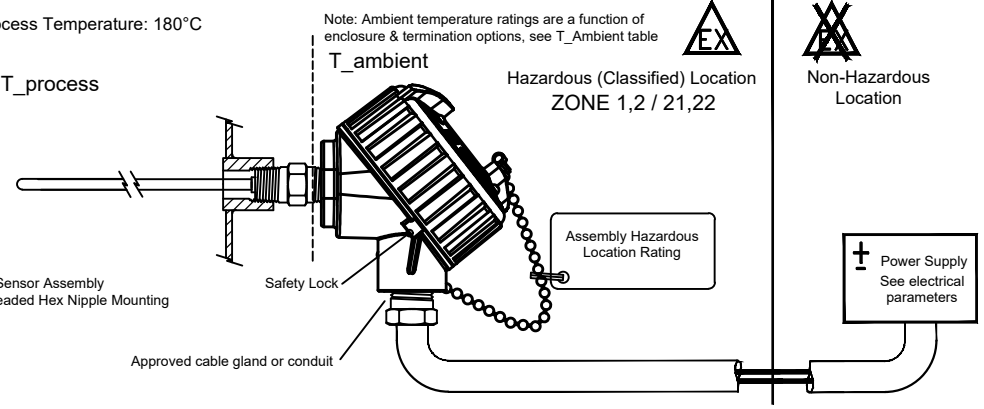


Max. Process Temperature: 180°C



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



Hazardous (Classified) Location
ZONE 1,2 / 21,22

Non-Hazardous Location

PART NUMBER LAYOUT



APPROVAL
CODE DESCRIPTION
HLOG ATEX / IECEx

THERMOCOUPLE TYPE
CODE
SINGLE DUPLEX TRIPLEX
E EE EEE
J JJ JJJ
K KK KKK
T TT TTT
N NN NNN

SHEATH DIAMETER
CODE Diameter (Inches)
2 1/8
3 3/16
4 1/4
6 3/8

SHEATH MATERIAL
CODE DESCRIPTION
3 ALLOY 600
4 310 STAINLESS STEEL
5 446 STAINLESS STEEL
8 316 STAINLESS STEEL

MEASURING JUNCTION
CODE DESCRIPTION
U UNGROUNDED

SHEATH LENGTH
CODE DESCRIPTION
XXX(Y/Y) 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-642E (4 to 20) mA HART® FIELD TRANSMITTER W/ ALUMINUM ENCLOSURE
*77T-662E (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
5B 1/2" NPT CONDUIT REDUCER BUSHING, ALUMINUM
I STAINLESS STEEL TAG
M2 M25X1.5 CONDUIT REDUCER BUSHING, NICKEL PLATED BRASS
M5 M25X1.5 CONDUIT REDUCER BUSHING, NICKEL PLATED BRASS
AD TYPE II ANODE, 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

TRANSMITTER CALIBRATION CUSTOMER / ORDER SPECIFIC

TRANSMITTER CALIBRATION CUSTOMER / ORDER SPECIFIC

EXAMPLE PART NUMBER:

HLOG-K48U-012(1/2)-00-8HN93,I,T442-1KU-S(0-100)C

HLOG-K48U-012(1/2)-00-8HN75T-642E-1KU-S(0-100)C,I

Installation Notes for configuration codes XP02

- 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.



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 ≤ +85C; T5 ≤ +100C) 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.

Enclosure	Termination	**Ambient Temperature Range & T-Code & Dust Surface Temperature
75, 77	T-642E / T-662E T-642E-D / T-662E-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 +95°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 +95°C T5 Gb T95°C Db
94	T-441, T-442, T82-00	-40 TO +55°C T6 Gb T65°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 +85°C T5 Gb T95°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

	ADD TYPE N AND TRIPLEX ELEMENTS, ADD PART NUMBER NOTE, ADD OPTION AD, ADD NOTE vii	5/10/21	
	UPDATE NOTIFIED BODY NUMBER TO 2813, WAS 0518	10/08/19	
	UPDATE "SPECIFIC CONDITIONS OF USE" NOTES	04/26/19	
	REVISION	DATE	

PART NO:	
SPEC NO:	
TOLERANCES	
FRACTION DIM =	
DECIMAL DIM .XX =	
DECIMAL DIM .XXX =	
ANGULAR DIM =	
This document is PROPRIETARY to Pyromation, Inc.	

FOR:	CONFIGURATION CODES XP02, TC SENSOR ASSEMBLY		
TITLE:	INSTALLATION INSTRUCTION - ATEX / IECEx db, tb ASSEMBLIES		
SIZE:	DWG. NO:	SHEET:	REV.
A	H0687	05	C
SCALE:	1:1	DATE:	12/14/18
FORT WAYNE, INDIANA		260-484-2580	