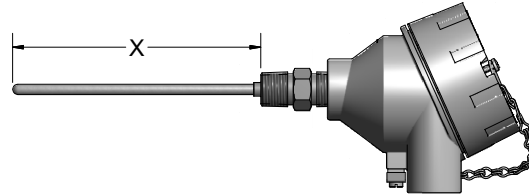


# EXPLOSION-PROOF

## Configuration Code XP02 Hazardous Location Explosion-Proof-Approved, Fixed-Element Thermocouple Assemblies - Model 70-82

Explosion-Proof, Fixed-Element Thermocouples 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 A, B, C and D; DIP Class II, Division I, Groups E, F, G and Class III, Division 1. They may be installed directly in the process without being inserted into a thermowell. The assemblies feature 316 stainless steel sheaths in various diameter sizes and ungrounded isolated junctions. They are available with or without process mountings and with aluminum or stainless steel explosion-proof connection heads.



### ORDER CODES

**Example  
Order Number:**

1-0 2-0 2-1 2-2 2-3 3-0 4-0 5-0 5-1 5-2  
**XP - K 4 8 U - 012 - 00 - 8HN 72, T-** Select Type and Range from back of Section

#### 1-0 Agency Approval

CODE	DESCRIPTION
XP	FM/CSA explosion-proof-approved assembly

#### 2-0 Thermocouple Types

CODE	CODE
SINGLE	DUPLEX
E	EE
J	JJ
K	KK
T	TT

#### 2-1 Sheath Diameters

CODE	DIAMETER (inches)
2	1/8
3	3/16
4	1/4
6	3/8

#### 2-2 Sheath Materials

CODE	MATERIAL	STANDARD AVAILABLE TYPES
3	Alloy 600	K
4	310 SS	K
5	446 SS	K
8	316 SS	E, J, K, T

#### 2-3 Measuring Junction

CODE	DESCRIPTION
U	Ungrounded

#### 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
74	DIN form B aluminum explosion-proof head Group A
75T-642B	(4 to 20) mA HART® Field Transmitter with aluminum explosion-proof housing, Group A
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-441 <sup>[1]</sup>	(4 to 20) mA isolated head-mounted transmitter
T-442 <sup>[1]</sup>	(4 to 20) mA Hart® isolated head-mounted transmitter
<b>See transmitter ordering information in back of section.</b>	
[1] Not available with option 71 or 81	

#### 5-0 Head Mounting Fittings

CODE	DESCRIPTION
6HN	1/2" x 1/2" NPT steel hex nipple
8HN	1/2" x 1/2" NPT stainless steel hex nipple
9HP	1/2" NPT stainless steel bushing (no process threads)
8RNDC	3/4" x 1/2" NPT stainless steel hex nipple

#### 4-0 Sheath Mounting Fittings

CODE	DESCRIPTION
00	No Fitting

#### 3-0 "X" Dimensions

Insert three digit sheath length ("X" Dimension) in inches.

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