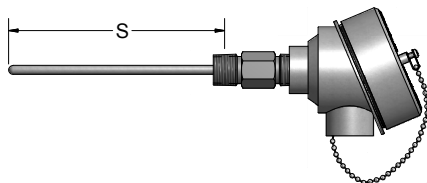


# EXPLOSION-PROOF

## Configuration Code XP06 Hazardous Location Explosion-Proof-Approved , Spring-Loaded Thermocouple Assemblies - Model 70-81

Explosion-Proof, Spring-Loaded 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 B, C and D; DIP Class II, Division I, Groups E, F, G and Class III, Division 1. Pyromation provides sensors for installation into your existing thermowell or provides the required thermowell as part of the assembly. Refer to the Thermowell Section of this catalog for product selection. The assemblies feature 316 stainless steel sheaths and ungrounded isolated junctions. They are available with aluminum or stainless steel explosion-proof connection heads. **Note:** The "S" dimension will measure 1/4" longer than specified when the spring is in the relaxed position. The "S" dimension is calculated when the sensor is compressed or in the installed position. This design allows 1/4" spring compression to ensure positive contact with the bottom of the thermowell.



### ORDER CODES

#### Example Order Number:

1-0 2-1 2-2 2-3 3-0 4-0 5-0 5-1 5-2  
**XP - J 48 U - 012 - FP - 8HN 71, T-** Select Type and Range from back of Section

#### 1-0 Agency Approval

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

#### 2-1 Thermocouple Types

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

#### 2-2 Sheath Diameters 316 SS

CODE	DIAMETER (inches)
48	1/4

#### 2-3 Measuring Junction

CODE	DESCRIPTION
U	Ungrounded

#### 3-0 "S" Dimensions

Insert three digit sheath length ("S" Dimension) in inches

#### 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
75T-642D	(4 to 20) mA HART® Field Transmitter with aluminum explosion-proof housing, Group B
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
See transmitter ordering information in back of section.	
[1] Not available with option 71 or 81	

#### 5-0 Head Mounting Fittings

CODE	DESCRIPTION
316 STAINLESS STEEL FITTINGS	
8HN	1/2" NPT flame-path fitting (1-1/2" "E" length)
8PU4 <sup>[1]</sup>	1/2" NPT union/nipple with flame-path fitting (specify "E" length in inches, maximum allowable 9")
[1] For longer lengths replace "4" with length in inches.	

#### 4-0 Element Options

FP	Spring-loaded element with flame path
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