Explosion-Proof, Fixed-Element Thermocouple Assemblies

Configuration Code XP02
Hazardous Location Explosion-Proof-Approved, Fixed-Element Thermocouple Assemblies

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, dependent on connection head type, meet XP Class I Division I & II; Groups A, B, C, D; DIP Class II Division I; Groups E, F, G; Class III; Type 4/4X. 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:
XP - K 4 8 U - 012 - 00 - 8HN 93, T-

1-0 Agency Approval
CODE DESCRIPTION
XP FM/CSA explosion-proof-approved assembly

2-0 Thermocouple Types
CODE SINGLE DUPLEX TRIPLEX
E EE -
J JJ JJJ
K KK KKK
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
74 DIN form B aluminum explosion-proof head
75T-642B (4 to 20) mA HART® Field Transmitter with aluminum explosion-proof housing
76T82-D10 (4 to 20) mA dual input HART® Field Transmitter with digital display and explosion-proof aluminum housing
77T-662C (4 to 20) mA HART® Field Transmitter with dual cavity explosion-proof aluminum housing
93 Aluminum explosion-proof head
94 316L stainless steel explosion-proof head

5-2 Options
SB 1/2” NPT conduit reducer bushing
I Stainless steel tag
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, isolated HART® head-mounted transmitter

See transmitter ordering information in back of section.

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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X P-2
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