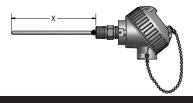
# Configuration Code GP02 Fixed-Sheath Thermocouple Assemblies with explosion-Proof Connection Heads

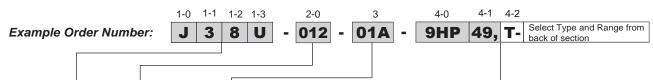
Fixed-Sheath Thermocouple Assemblies with Explosion-Proof Connection Heads have head mounting fittings that are welded or brazed to the sheath for direct immersion into a process. To order an assembly with an optional 4 to 20 mA transmitter, select the assembly below and the transmitter from the back of this section. The MgO-insulated thermocouple assemblies are offered in a variety of calibrations, sheath diameters, and sheath materials.







## ORDER CODES



## 1-0 Thermocouple Types

CODE		
SINGLE	DUPLEX	TRIPLEX
E	EE	-
J	JJ	JJJ
K	KK	KKK
T	TT	-

#### 1-1 Sheath Diameters

DIAMETER (inches)
1/8
3/16
1/4
3/8

### 1-2 Sheath Materials

CODE	MATERIAL	STANDARD AVAILABLE TYPES
3	Alloy 600	K
4	310 SS	K
5	446 SS	K <sup>[1]</sup>
8	316 SS	E, J, K, T
[1] All sensors with 446SS sheaths must have an		

#### I-3 Measuring Junctions

ungrounded measuring junction.

CODE	DESCRIPTION	
G	Grounded junction	
U	Ungrounded junction	
Е	Exposed junction	

### 2-0 'X' Dimension

Insert three digit "X" length in inches

Sheath lengths over 72" will be shipped in a coiled configuration unless otherwise specified.

## 3-0 No Fitting

CODE 00

## 3-1 One-Time Adjustable Fittings

CODE	TYPE	NPT SIZE (inches)	PRESSURE- RATED	AVAILABLE SHEATH DIAMETERS (inches)
01A	303 SS	1/8	NO	1/8, 3/16, 1/4
05A	316 SS	1/8	YES	1/8, 3/16, 1/4
05B	316 SS	1/4	YES	1/8, 3/16, 1/4, 3/8
05C	316 SS	1/2	YES	1/8, 3/16, 1/4, 3/8
15A	Brass	1/8	NO	1/8, 3/16,1/4
15B	Brass	1/4	NO	3/16, 1/4,3/8
15C	Brass	1/2	NO	1/4, 3/8
14	Brass/ Steel	Flange	NO	1/8, 3/16, 1/4, 3/8

### 3-2 Re-Adjustable Compression Fittings

CODE	TYPE	NPT SIZE (inches)	AVAILABLE SHEATH
10A	303 SS	1/8	1/8, 3/16
10B	303 SS	1/4	1/4, 3/8
10C	303 SS	1/2	1/4, 3/8
12A	316 SS	1/8	1/8, 3/16, 1/4
12B	316 SS	1/4	1/8, 3/16, 1/4, 3/8
12C	316 SS	1/2	1/8, 3/16, 1/4, 3/8
11A	Brass	1/8	1/8, 3/16, 1/4
11B	Brass	1/4	1/8, 3/16, 1/4, 3/8
11C	Brass	1/2	1/4, 3/8
19C	Spring-loaded SS well fitting	1/2	3/16, 1/4
FEP gland standard 204 °C [400 °F] max.			

### 3-3 Fixed Bushings[1]

CODE	MOUNTING THREAD	AVAILABLE SHEATH
316 SS	NPT (inches)	DIAMETERS (inches)
8A <sup>[2]</sup>	1/8	1/8, 3/16, 1/4
8B <sup>[2]</sup>	1/4	1/8, 3/16, 1/4, 3/8
8C <sup>[2]</sup>	1/2	1/8, 3/16, 1/4, 3/8
8D <sup>[2]</sup>	3/4	1/8, 3/16, 1/4, 3/8

[1] Requires Table 4, Option 9HP Selection

[2] When ordering fixed bushings, specify order code above plus insert length "U", as measured from hot tip to bottom of threaded bushing. EXAMPLE: order code 8A06 is 1/8" NPT, 316 SS bushing located 6" from hot tip.

## 4-0 Head Mounting Fittings

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

#### 4-1 Head and Sheath Terminations

CODE	DESCRIPTION	
22	3" Individual fluoropolymer leads with terminal pins	
31	Aluminum screw-cover head	
34	Cast iron screw-cover head	
35T-642A	(4 to 20) mA HART® Field Transmitter with aluminum general-purpose housing	
36T82-	(4 to 20) mA dual input HART® transmitter with digital display and general-purpose	
D10	aluminum housing with glass lid	
37T-662A	(4 to 20) mA HART® dual cavity field temperature transmitter with general- purpose aluminum housing	
49	Flip-top aluminum head	
63	White polypropylene screw-cover head	
91	316 L stainless steel screw-cover head	
4-2 Op	tions	
<b>W</b> [1]	Epoxy Coating	
GS	Ground screw	
I	Stainless tag	
NB	1/2" NPT nylon conduit reducer bushing	
SB	1/2" NPT conduit reducer bushing	
T-441	(4 to 20) mA isolated head-mounted transmitter	
T-442	(4 to 20) mA isolated Hart®head-mounted transmitter	
T82-00	(4 to 20) mA dual input HART® head- mounted transmitter	
See transmitter ordering information in back of section.		
[1] Available with option 31 only.		

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