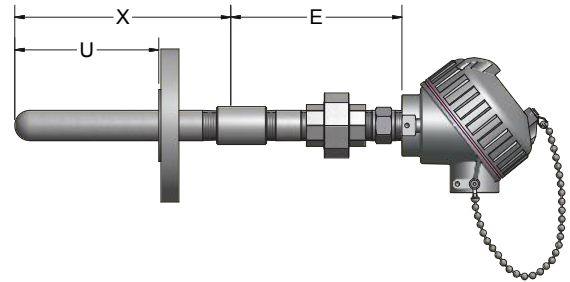
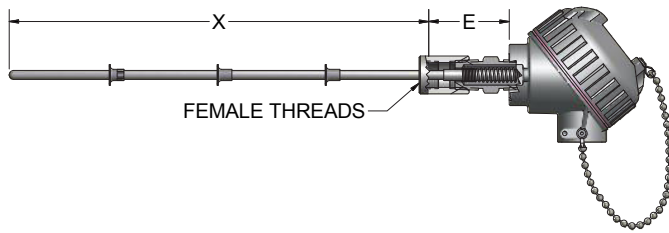


# SENSORS WITH CONNECTION HEADS

## Configuration Code GP10 MgO Thermocouple Pipe Wells with Self-Contained, Spring-Loaded Elements and Optional Transmitters



**Example Order Number:**

1-0 1-1 1-2 1-3 1-4 2-0 3-0 4-0 5-0 6-0 7-0 7-1  
**K 4 8 U 8VS - 8-75 - 36 - 815R130 - PC - 8PU4 31, I**

### 1-0 Thermocouple Type

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

### 1-3 Junction Style

CODE	DESCRIPTION
G	Grounded junction
U	Ungrounded junction

### 1-4 Element Options

CODE	DESCRIPTION
M	Special limits of error
8VS	316 Stainless steel vibration spacers (see table on GP11)

### 2-0 Pipe Material and Size

CODE	MATERIAL	MAX TEMP	CODE (INCHES)	
			1/2 INCH NPT	3/4 INCH NPT
6	Carbon steel	538 °C [1000 °F]	50	75
8	316 Stainless steel	927 °C [1700 °F]	50	75
5	446 Stainless steel	1093 °C [2000 °F]	50	75
3	Alloy 600	1149 °C [2100 °F]	50	75
7	Alloy 601	1260 °C [2300 °F]	50	75
41	HR 160	1204 °C [2200 °F]	50	75
00 <sup>[1]</sup>	No protection tube	N/A	50	75

[1] Supplied with a female process connection.

### 3-0 Protection Tube

#### "X" LENGTH

Specify length in one inch increments. 4 inch minimum to 240 inch maximum.

### 4-0 Optional Welded Fittings

CODE		DESCRIPTION
STEEL	316 SS	
6D(U)	8D(U)	3/4 inch NPT welded bushing (50 tubes only)
6E(U)	8E(U)	1 inch NPT welded bushing
6F(U)	8F(U)	1 (1/4) inch NPT welded bushing
6G(U)	8G(U)	1 (1/2) inch NPT welded bushing
6H(U)	8H(U)	2 inch NPT welded bushing
610R1(U)	810R1(U)	1 inch 150# class raised-face flange
615R1(U)	815R1(U)	1 (1/2) inch 150# class raised-face flange
620R1(U)	820R1(U)	2 inch 150# class raised-face flange

Other sizes and materials available - consult factory

### 7-0 Head Terminations and Options

CODE	DESCRIPTION
22	3 inch individual leads with terminal pins
31	Aluminum screw-cover head
34	Cast iron screw-cover head
91	316 L Stainless steel screw-cover head
49	Aluminum flip-top head
93	Aluminum explosion-proof/flame-proof head, NEC, IEC, Atex approved
94	316L stainless steel explosion-proof/flame-proof head, NEC, IEC, Atex approved
35T-642A	(4 to 20) mA Isolated HART® field transmitter with general-purpose aluminum housing
36T82-D10	(4 to 20) mA dual input HART® transmitter with digital display and general-purpose aluminum housing with glass lid
37T-662A	(4 to 20) mA HART® dual cavity field temperature transmitter with general-purpose aluminum housing
75T-642C	(4 to 20) mA Isolated HART® field transmitter with explosion-proof aluminum housing, Group A
76T82-D10	(4 to 20) mA dual input HART® Field Transmitter with digital display and explosion-proof housing, Group A
77T-662C	(4 to 20) mA HART® Field Transmitter with dual cavity explosion-proof aluminum housing, Group A

### 7-1 OPTIONS AND TRANSMITTERS

SB	1/2 inch NPT conduit reducer bushing
I	Stainless steel tag
GS	Ground screw
H	Adjustable steel mounting flange
T-441 <sup>[1]</sup>	(4 to 20) mA Isolated head-mounted transmitter
T-442 <sup>[1]</sup>	(4 to 20) mA Isolated HART® head-mounted transmitter
T82-00	(4 to 20) mA dual input HART® head-mounted transmitter

[1] Not available with option 71 or 81  
See Transmitter section for transmitter ordering information

### 6-0 Head Mounting Fittings

CODE		DESCRIPTION
STEEL	316 SS	
6HN	8HN	1/2 inch X 1/2 inch NPT hex nipple 2 Inch "E" length
6PU_	8PU_	1/2 inch NPT union/hex nipple (specify "E" length)
6XU_	8XU_	1/2 inch NPT explosion-proof union/hex nipple (specify "E" length)

### 5-0 Element Options

CODE	DESCRIPTION
PC	Self-contained spring-loaded element

