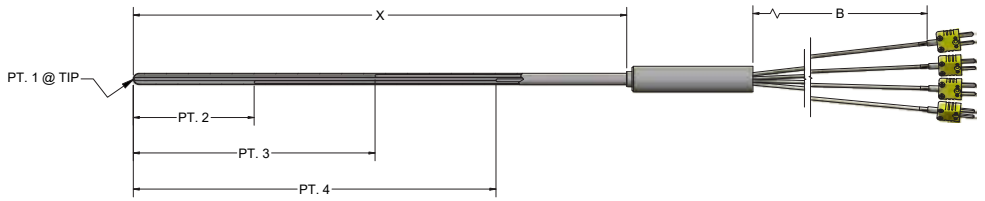
Configuration Code MP02

MgO Multi-Point Sensors with Leadwire

Pyromation's multi-point thermocouples with leadwire extensions accurately measure temperatures at various points along the sheath allowing for a temperature profile across a specified length. The design consists of smaller diameter MgO thermocouples placed inside a single outer sheath, which allows for profiling the temperature at various points along a single line. Applications where these products are used include vessels, holding tanks, furnaces, ovens, reactors, heat exchangers, air ducts and more. The tables found on this page allow customer selection of standard thermocouple types, up to 16 temperature points, various sheath diameters, mounting fittings, transition options, leadwire types and terminations. Custom-designed products are available upon request.



ORDER CODES

Example Order Number:

1-0	1-1	1-2	1-3	1-4		2-0		2-1		3-0		4-0		5-0		6-0
J	(4)	6	8	U	-	042	-	(0,6,12,18)	-	00	-	19	-	T3072	-	6

1-0 Thermocouple Types

CODE	DESCRIPTION
J	Type J
K	Type K

1-1 Number of Points

CODE
2 to 16 Points
Specify number of points in parenthesis. Example: (6) = 6 points. Maximum number of points is based on sheath diameter, see table 1-2 for maximum number of points

1-2 Sheath Diameters

CODE	DIAMETER (INCHES)	MAX NUMBER OF POINTS[1]
2	1/8"	5
3	3/16"	10
4	1/4"	12
6	3/8"	16
8	1/2"	16

[1] Maximum number of points apply to sensors 20 feet or less. For lengths above 20 feet, consult factory.

1-3 Sheath Material

CODE	DESCRIPTION
8	316 Stainless Steel

1-4 Measuring Junctions

CODE	DESCRIPTION
U	Ungrounded junction

1-5 Special Options

CODE	DESCRIPTION
M	Special limits of error

2-0 "X" Dimension

Insert three digit sheath length ("X" Dim) in inches

2-1 Sensor Location

Specify location of junctions from tip in inches where 0 = tip. Ex: 0,4,8,12

3-0 Sheath Mounting Fittings

CODE	DESCRIPTION	
00	No Fitting	
Compression Fittings		**NPT SIZE (inches)**
05A	316 Stainless steel	1/8
05B	316 Stainless steel	1/4
05C	316 Stainless steel	1/2
12A	316 SS Readjustable	1/8
12B	316 SS Readjustable	1/4
12C	316 SS Readjustable	1/2
19C	303 SS Spring-loaded well fitting	1/2
Fixed Bushings		**NPT SIZE (inches)**
8A_ _[1]	316 SS welded bushing	1/8
8B_ _[1]	316 SS welded bushing	1/4
8C_ _[1]	316 SS welded bushing	1/2
8D_ _[1]	316 SS welded bushing	3/4

[1] 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 Leadwire Transitions 204 ºC

CODE	DESCRIPTION	MAX NUMBER OF POINTS
19	Extension leadwire transition with no strain relief, 316 SS	See Note [1]
8PN23	1/2" NPT Pipe nipple, 0.840 OD x 4" long, 316 SS	Up to 8 points
8PND23	3/4" NPT Pipe nipple, 1.05 OD x 6" long, 316 SS	Up to 16 points
Options		
NT	No process threads	

[1] Transition size as follows:
2-6 points - 1/2" OD x 5" long
7-8 points - 0.840 OD x 4" long
9-16 points - 1.05 OD x 6" long

5-0 Extension Leadwire Type B Dimension

CODE	DESCRIPTION
F1	Fiberglass insulation - solid conductor
F1B	Fiberglass insulation - solid conductor - stainless steel overbraid
F3	Fiberglass insulation - stranded conductor
F3B	Fiberglass insulation - stranded conductor - stainless steel overbraid
T1	Fluoropolymer insulation - solid conductor
T1B	Fluoropolymer insulation - solid conductor - stainless steel overbraid
T3	Fluoropolymer insulation - stranded conductor
T3B	Fluoropolymer insulation - stranded conductor - stainless steel overbraid

6-0 Terminations

CODE	DESCRIPTION
0	Leads not stripped
2	2" split leads, 1/4" stripped
3	2" split leads, 1/4" spade lugs
4	Standard plug
5	Standard jack
6	Miniature plug
7	Miniature jack
Options	
CC	Plug or jack secured to leads with cable clamp