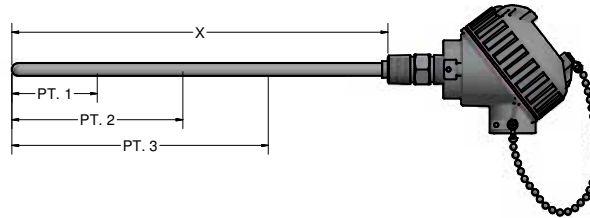


# SPECIAL-PURPOSE

## Configuration Code MP05 Tube & Wire Multi-Point Sensors with Termination Enclosures

Pyromation's tube and wire style multi-point thermocouples with termination enclosures accurately measure temperatures at various points along the sheath allowing for a temperature profile across a specified length. The design consists of either FEP or fiberglass insulated thermocouple wires placed inside a single outer sheath, which allows for profiling the temperature at various points along a single line. This design allows for a cost-effective alternative for lower temperature applications. 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 and termination enclosures. Custom-built 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  
**KP T (3) 38 U - 072 - (12,24,36) - 00 - 8HN 31**

#### 1-0 Thermocouple Types

CODE	DESCRIPTION
JP	Type J
KP	Type K

#### 1-1 Insulation Types

CODE	DESCRIPTION	MAX TEMP
T	Fluoropolymer	200 °C
F	Fiberglass	482 °C

#### 1-2 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 1-3 for maximum number of points

#### 1-3 Sheath Diameters - 316 SS

CODE	DIAMETER (INCHES)	MAX NUMBER OF POINTS <sup>[1]</sup>
38	3/16"	3
48	1/4"	4
68	3/8"	10
88	1/2"	16

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

#### 1-4 Measuring Junctions

CODE	DESCRIPTION
U	Ungrounded junction

#### 2-0 "X" Dimension

Insert three digit sheath length ("X" Dimension) 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__ <sup>[1]</sup> 316 SS welded bushing	1/8
8B__ <sup>[1]</sup> 316 SS welded bushing	1/4
8C__ <sup>[1]</sup> 316 SS welded bushing	1/2
8D__ <sup>[1]</sup> 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 Head Mounting Fittings

CODE	DESCRIPTION
8HN	1/2" x 1/2" NPT stainless steel hex nipple, 1" "E" length
9HP	1/2" NPT stainless steel bushing (no process threads)
8PN_	1/2" NPT pipe nipple, 316 stainless steel, specify length
8PND_	3/4" NPT pipe nipple, 316 stainless steel, specify length
Options	
NT	No process threads - for 8PN only

#### 5-0 Termination Enclosures

CODE	DESCRIPTION	MAX NUMBER OF POINTS
20	General-Purpose painted steel wall mount panel enclosure - 8"x6"x4" NEMA 4	16
30	General Purpose SS wall mount panel enclosure - 8"x6"x4" NEMA 4X	16
31	Aluminum screw-cover head (NEMA 4X, IP66)	4
34	Cast iron screw-cover head (NEMA 4X, IP66)	4
91	316L stainless steel screw-cover head (NEMA 4X, IP66)	4
93	Aluminum explosion-proof connection head	4
94	316L stainless steel explosion-proof connection head	4
52	Malleable iron explosion-proof connection head	6

#### Options

I	Stainless steel tag
SB	1/2" NPT conduit reducer bushing
D2	Class 1 Div. 2 rating for termination 31, 34, 91
CHB <sup>[1]</sup>	3/4" NPT conduit hub located on bottom
CHR <sup>[1]</sup>	3/4" NPT conduit hub located on right
CHT <sup>[1]</sup>	3/4" NPT conduit hub located on top
CHL <sup>[1]</sup>	3/4" NPT conduit hub located on left

[1] Only applies to option 20 or 30

