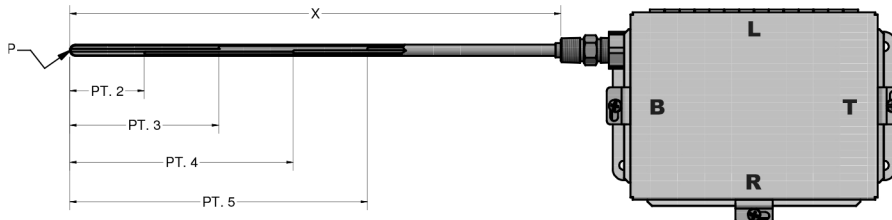


Pyromation's multi-point RTDs with enclosures accurately measure temperatures at various points along the sheath allowing for a temperature profile across a specified length. The design consists of multiple RTD sensors placed inside a single outer sheath, which allows for profiling the temperature at various points along a single line. Applications where these products are used include vessels, holding tanks, ovens, reactors, heat exchangers, air ducts and more. The tables found on this page allow customer selection of Class A or Class B accuracies, two temperature ranges and up to 10 temperature points. There are also options for various sheath diameters, mounting fittings and termination enclosures. Custom designed products are available upon request.



## ORDER CODES

**Example  
Order  
Number:**

1-0 1-1 1-2 1-3 2-0 2-1 3-0 4-0 5-0  
**RBF185L (5) 68 3 - 024 - (0,4,8,12,16) - 00 - 8HN 30**

**1-0 Pt100 ( $\alpha=0.00385\text{ }^{\circ}\text{C}^{-1}$ )**

CODE	TOLERANCE	TEMP. RANGE
RBF185L	Class B	(-50 to 200 °C)
RBF185K	Class B	(-50 to 315 °C)
RAF185L	Class A	(-50 to 200 °C)
RAF185K	Class A	(-50 to 315 °C)
R1T185L	Grade B	(-200 to 200 °C)
R1T185K	Grade B	(-200 to 315 °C)

**1-1 Number of Points**

CODE
2 to 10 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 - 316 SS**

CODE	DIAMETER (INCHES)	MAX NUMBER OF POINTS [1]	
		3-wire	4-wire
48	1/4"	3	2
68	3/8"	5	3
88	1/2"	10	8

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

**1-3 Element Connection**

CODE	DESCRIPTION
3	3-wire
4	4-wire

**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__ [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 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	
		3 WIRE	4 WIRE
20	General Purpose painted steel wall mount panel enclosure - 8"x6"x4" - NEMA 4	10	8
30	General Purpose 316 SS wall mount panel enclosure - 8"x6"x4" - NEMA 4X	10	8
31	Aluminum screw-cover head (NEMA 4X, IP66)	2	2
34	Cast iron screw-cover head (NEMA 4X, IP66)	2	2
91	316L stainless steel screw-cover head (NEMA 4X, IP66)	2	2
93	Aluminum explosion-proof connection head, Group A	2	2
94	316L stainless steel explosion-proof connection head, Group A	2	2
52	Malleable iron explosion-proof connection head	4	3

**Options**

I	Stainless steel tag
SB	1/2" NPT conduit reducer bushing
D2	Class 1 Div. 2 rating for termination 31, 34, 91
CHB [1]	3/4" NPT conduit hub located on bottom
CHR [1]	3/4" NPT conduit hub located on right
CHT [1]	3/4" NPT conduit hub located on top
CHL [1]	3/4" NPT conduit hub located on left
[1] Only applies to option 20 or 30	