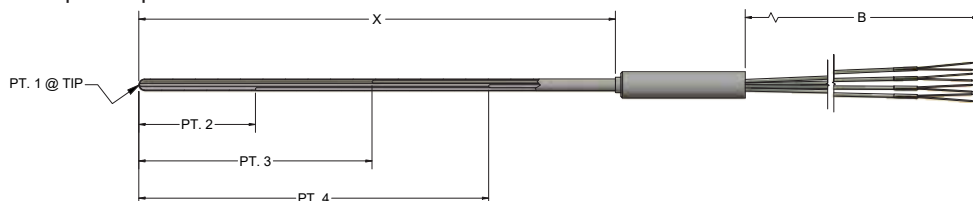


Pyromation's multi-point RTD's with leadwire extensions accurately measure temperatures at various points along the sheath allowing for a temperature profile across a specified length. The design consists of multiple RTD sensors placed inside a single outer sheath, which allows for profiling the temperature 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, up to 10 temperature points. There are also options for various sheath diameters, mounting fittings, transition types, leadwire types and terminations. 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 6-0  
**RAF185K (4) 88 4 - 024 - (0,3,8,15) - 05C - 19 - K3B072 - 2**

#### 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 <sup>[1]</sup>	
		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__ <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 Leadwire transitions 204 °C

CODE	DESCRIPTION
15	Extension leadwire transition with relief spring 204 °C [400 °F]
16	Extension leadwire transition with heat-shrink tubing 104 °C [220 °F]
18	Same size transition without heat-shrink tubing 204 °C [400 °F]
19	Extension leadwire transition without spring or heat-shrink tubing 204 °C [400 °F]
8HN23	1/2" x 1/2" NPT stainless steel hex nipple
8PN_23	1/2" NPT Pipe nipple, 316 SS, specify length

#### 5-0 Extension leadwire Type B dimension

CODE	DESCRIPTION
T3	Fluoropolymer insulation - stranded conductor
T3B	Fluoropolymer insulation - stranded conductor - stainless steel overbraid
K3	Polyimide insulation - stranded conductor
K3B	Polyimide 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 <sup>[1]</sup>	Plug or jack secured to leads with cable clamp
[1] Not available with 4-wire	