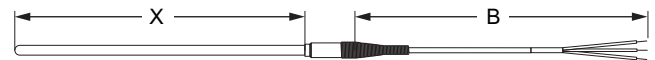
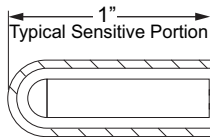


RTD

Configuration Code RT01
RTD Assemblies with Extension Leadwire
 Configuration Code RT02
RTD Assemblies with Sheath Terminations

The RTD elements illustrated and described on this page are designed to measure temperature in a variety of process and laboratory applications. These RTDs are specifically designed for use in two different process temperature ranges and will provide accurate and repeatable temperature measurement through a broad range. Low range RTDs are constructed using Teflon® insulated silver plated copper internal leads, with potting compounds to resist moisture penetration. High range RTDs are constructed with nickel internal leads inside swaged MgO insulated cable to allow higher temperature measurements at the RTD element and to provide higher temperature lead protection along the sheath. The following tables allow customer selection of standard element materials, initial accuracies, sheath materials and diameters, mounting fittings and terminations. Custom built assemblies with non-standard specifications are available upon request.



ORDER CODES

Example Order Number:

1-1 1-2 1-3 1-4
R5T185L 48 3 - 006 - Page RTD-2 - Page RTD-3 - Page RTD-4 - Page RTD-5

1-1 Single Platinum RTD Elements

CODE	INITIAL ELEMENT ACCURACY @ 0 °C	BASE RESISTANCE @ 0 °C	TEMPERATURE COEFFICIENT	1-2 Available Sheath Diameters 316SS			
				CODE	1/8" OD	3/16" OD	1/4" OD
<i>LOW RANGE WIRE WOUND (-200 to 204) °C [-328 to 400] °F</i>							
R1T185L	± 0.1%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
R3T185L	± 0.03%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
R5T185L	± 0.01%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
R1T192L	± 0.1%	100 Ω	$\alpha = 0.00392 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
R3T192L	± 0.03%	100 Ω	$\alpha = 0.00392 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
R1T125L	± 0.1%	200 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	N/A	38	48	68
<i>LOW RANGE THIN FILM (-40 to 204) °C [-40 to 400] °F</i>							
RBF185L	± 0.12%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
RAF185L	± 0.06%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
RBF155L	± 0.12%	500 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
RBF195L	± 0.12%	1000 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
<i>HIGH RANGE WIRE WOUND (-200 to 600) °C [-328 to 1112] °F</i>							
R1T185H	± 0.1%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68
R1T192H	± 0.1%	100 Ω	$\alpha = 0.00392 \text{ } ^\circ\text{C}^{-1}$	28	38	48	68

1-4 Length

CODE
3 Digit 'X' Length

1-3 Element Connection

CODE	DESCRIPTION
2	2 wire
3	3 wire
4 ^[1]	4 wire

[1] Not available in duplex

1-1 Duplex Platinum RTD Elements

CODE	INITIAL ELEMENT ACCURACY @ 0 °C	BASE RESISTANCE @ 0 °C	TEMPERATURE COEFFICIENT	1-2 Available Sheath Diameters 316SS		
				CODE	3/16" OD	1/4" OD
<i>LOW RANGE WIRE WOUND (-200 to 204) °C [-328 to 400] °F</i>						
R1T285L	± 0.1%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
R3T285L	± 0.03%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
R5T285L	± 0.01%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
R1T292L	± 0.1%	100 Ω	$\alpha = 0.00392 \text{ } ^\circ\text{C}^{-1}$	38	48	68
R3T292L	± 0.03%	100 Ω	$\alpha = 0.00392 \text{ } ^\circ\text{C}^{-1}$	38	48	68
<i>LOW RANGE THIN FILM (-40 to 204) °C [-40 to 400] °F</i>						
RBF285L	± 0.12%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
RAF285L	± 0.06%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
RBF295L	± 0.12%	1000 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
<i>HIGH RANGE WIRE WOUND (-200 to 600) °C [-328 to 1112] °F</i>						
R1T285H	± 0.1%	100 Ω	$\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$	38	48	68
R1T292H	± 0.1%	100 Ω	$\alpha = 0.00392 \text{ } ^\circ\text{C}^{-1}$	38	48	68

1-2A

CODE	NOMINAL SHEATH DIAMETER (inches)	TIP DIA. OD (inches)	TIP LENGTH (inches)
88R48	1/2	1/4	1 1/4
68R38	3/8	3/16	1 1/4
48R28	1/4	1/8	1 1/4

REDUCED TIP RTD's

Table 1-2A lists RTD elements with reduced tip sheaths. To order, use order code numbers from Tbl. 1-2A in place of straight sheath order code numbers from Tbl. 1-2. Other reduced tips are available upon request. EXAMPLE: R1T185L88R483-006.

Consult factory for other RTD types.

Pyromation, Inc.

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