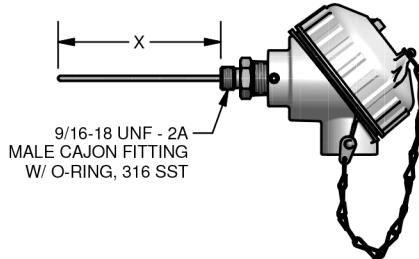


The types listed below are RTD temperature sensor assemblies designed to meet the stringent requirements of ultra-high temperature (UHT) pasteurization systems. In the UHT process the products are pasteurized at a higher temperature, typically 138° C for a shorter period of time - usually 2-3 seconds. The RTD sensor assemblies are available in a variety of accuracies, wire configurations, and termination options. They are also available with a variety of (4-20) mA transmitter options. All wetted parts are supplied with a surface finish that meets or exceeds 32μin Ra. Surface finishes of 15μin Ra or better are available upon request. These assemblies are supplied with a 9/16" -18 UNF-2A process connection and Viton O-ring on the face of the fitting. These RTD assemblies are designed to be used with a weld-in style thermowell as noted on the following page.



ORDER CODES

Example Order Number:

1-1 1-2 1-3 2 3
RAF185L **28** **3** - **04** - **00** - **8VCC63**

1-1 Pt100 ($\alpha = 0.003$ 85°C^{-1}) RTD Assemblies

CODE	DUPLEX (3/16" OD ONLY)	TOLERANCE	TEMPERATURE RANGE
R1T185L	R1T285L	Grade B	(-200 to 200°C)
R3T185L	R3T285L	Class AA	(-200 to 200°C)
R5T185L	R5T285L	(1/5) Class B	(-200 to 200°C)
RBF185L	RBF285L	Class B	(-50 to 200°C)
RAF185L	RAF285L	Class A	(-50 to 200°C)
R1T185H	R1T285H	Grade B	(-200 to 600°C)
RAT185H	RAT285H	Class A	(-200 to 600°C)

1-2 Sheath

CODE	DIAMETER (inches)	MATERIAL
28	1/8"	316 Stainless Steel
38	3/16"	316 Stainless Steel

1-3 Element Connection

CODE	DESCRIPTION
2	2 wires
3	3 wires
4	4 wires

2 Sheath Length

Specify 2 digit hot leg in inches

3 Head Mounting Fitting and Termination

CODE	DESCRIPTION
8VCC22(XX)	9/16" - 18UNF-2A X 1/2" NPT with 3" individual leads and terminal pins (or specified lead length)
8VCB22(XX)	9/16" - 18UNF-2A X 1/4" NPT with 3" individual leads and terminal pins (or specified lead length)
8VCC31	9/16" - 18UNF-2A process connection with Aluminum screw-cover head (NEMA 4X, IP66)
8VCC63	9/16" - 18UNF-2A process connection with White Polypropylene screw-cover head (NEMA 4X)
8VCC91	9/16" - 18UNF-2A process connection with 316L stainless steel screw-cover head (NEMA 4X, IP66)
8VCB17 ^[1]	9/16" - 18UNF-2A process connection with Minature Plastic head (3/8" NPT conduit opening)
8VC45 ^[2]	9/16" - 18UNF-2A X M12

Head Options

W ^[3]	Epoxy Coating
I	Stainless Steel Tag
SB	Steel conduit reducer bushing
NB	Nylon conduit reducer bushing
T-440	(4 to 20) mA head-mounted RTD transmitter
T-441	(4 to 20) mA isolated head-mounted transmitter
T-442	(4 to 20) mA isolated HART® head-mounted transmitter
T-450 ^[2]	(4 to 20) mA integral RTD transmitter

See Transmitter ordering info in the transmitter section.

[1] Only available with single element

[2] Only available in single element, 4 wire construction

[3] Only available with option 31

HART® is a registered trademark of HART Communication Foundation.