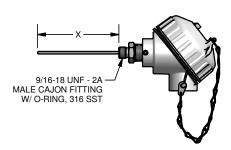
Food, Dairy & Pharmaceutical

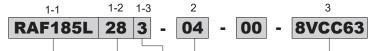
Configuration Code FD10 Ultra-High Temperature Pasteurization (UHT) RTD Sensors

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 Pt100 (α = 0.003 85 °C⁻¹) RTD Assemblies

| CODE | | | TEMPERATURE |
|---------|---------------------------|---------------|-----------------|
| SINGLE | DUPLEX (3/16" OD ONLY) | TOLERANCE | 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 | | |
|---|---|--|--|
| 0) (0,000 () () () | 9/16" - 18UNF-2A X 1/2" NPT with 3" | | |
| 8VCC22(XX) | individual leads and terminal pins (or | | |
| | specifed lead length) | | |
| 0) (0000()()() | 9/16" - 18UNF-2A X 1/4" NPT with 3" | | |
| 8VCB22(XX) | 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) | | |
| | 9/16" - 18UNF-2A process connection | | |
| 8VCC91 | with 316L stainless steel screw-cover head (NEMA 4X, IP66) | | |
| | 9/16" - 18UNF-2A process connection with | | |
| 8VCB17 ^[1] | 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 | | | |

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