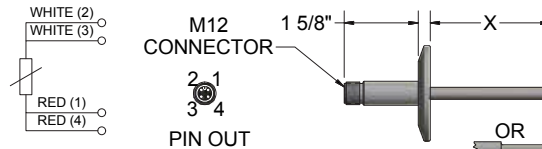
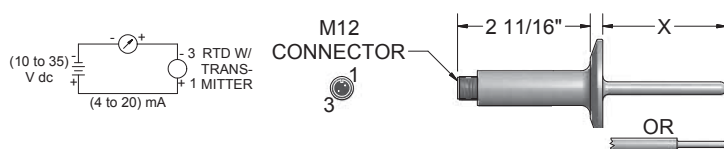


The Water-Tight CIP RTD Assembly houses an optional integral Series 450 Temperature Transmitter (no connection head is required) that is ideal for monitoring temperature in small areas such as tanks and pipes. The water-tight construction meets NEMA 6P requirements. Assemblies are supplied with a surface finish that meets or exceeds 32µin R_a. Surface finishes of 15µin R_a or better are available upon request. Standard units include a M12 process connection housing. The transmitter is a 2-wire unit with an analog output. It has measurement input for Pt100 resistance thermometers (RTD) in 4-wire connections. Transmitters can be ranged from (-51 to 160) °C [-60 to 320] °F with a 10 °C [18 °F] minimum span requirement. **Ambient temperature limits for the M12 connector are (-40 to 85) °C.**



ORDER CODES

Example Order Number:

R5T185L484 - **04** - **CIP** - **2-5** - **45, T** - **450** - **U** - **S (0-200)** **F**

1 Standard Tip Pt100 ($\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$) RTD Assemblies

| CODE | TOLERANCE ^[1] | NOMINAL SHEATH DIAMETER O.D. (inches) |
|------------|--------------------------|---------------------------------------|
| RAF185L484 | Class A | 1/4 |
| R1T185L484 | Grade B | 1/4 |
| R5T185L484 | (1/5) Class B | 1/4 |

1-1 Reduced Tip Pt100 ($\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$) RTD Reduced Tip Assemblies

| CODE | TOLERANCE ^[1] | NOMINAL SHEATH DIAMETER O.D. (inches) | TIP OUTER DIA. (inches) |
|---------------|--------------------------|---------------------------------------|-------------------------|
| RAF185L88R484 | Class A | 1/2 | 1/4 |
| RAF185L68R384 | Class A | 3/8 | 3/16 |
| R1T185L88R484 | Grade B | 1/2 | 1/4 |
| R1T185L68R384 | Grade B | 3/8 | 3/16 |
| R5T185L88R484 | (1/5) Class B | 1/2 | 1/4 |
| R5T185L68R384 | (1/5) Class B | 3/8 | 3/16 |

[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

2 Immersion Length "X"

Specify "X" length in inches using 2 digits, plus any fractional length
Examples: 04 = 4", 04(1/2) = 4.5"

For field-wireable and molded extensions see RTD Section.

Tri-Clamp® is a registered trademark of Alfa Laval, Inc.

3 Sanitary Cap Size and Style 316 SS

| CODE | DESCRIPTION |
|--|-------------------------------------|
| 1-5 | 1" & 1 1/2" 16 AMP cap - Tri-Clamp® |
| 2-5 | 2" 16 AMP cap - Tri-Clamp® |
| 3-5 | 2 1/2" 16 AMP cap - Tri-Clamp® |
| 4-5 | 3" 16 AMP cap - Tri-Clamp® |
| Other cap styles available - consult factory | |

4 Termination

| CODE | DESCRIPTION |
|---|--|
| 45 | M12 Water-tight connector |
| Optional Transmitter | |
| T ^[1] | (4 to 20)mA Temperature Transmitter (requires table 5 selection) |
| [1] See Transmitter Section for total sensor and transmitter output accuracy. | |

5 Transmitter

| CODE | DESCRIPTION |
|--------|---------------------------------------|
| 450-00 | Programmable transmitter-unconfigured |
| 450 | Programmable transmitter-configured |

6 Fault Signal

| CODE | DESCRIPTION |
|------|-------------------|
| U | Upscale burnout |
| D | Downscale burnout |

7 Range

| |
|-------------------------------|
| S (lower limit - upper limit) |
|-------------------------------|

8 Units

| CODE | DESCRIPTION |
|------|-------------|
| C | Celsius |
| F | Fahrenheit |