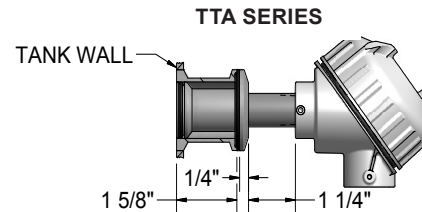
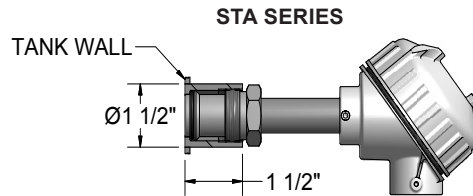


The non-intrusive tank sensors listed on this page are designed to mount flush with the interior tank wall for maximum product contact. This allows the wiping or mixing blades to properly mix the product within the tank without damaging the temperature sensor. The temperature sensors are manufactured of highly polished stainless steel and use various mounting methods for simple installation. These sensors are supplied standard with a 100 Ω , Platinum RTD sensing element. These RTD assemblies are constructed of 316 stainless steel and all wetted parts are supplied with a surface finish that meets or exceeds 32 μ m R_a . Surface finishes of 15 μ m R_a or better are available upon request. These RTD assemblies have an operation temperature of (-50 to 200) °C [-58 to 400] °F. See back of section for complete dimensions and installation instructions.



ORDER CODES

Example Order Number: 1-0 **RAF185L** 1-1 **3** - 1-2 **DTA** - 1-3 **63**

1-0 100 Ω Platinum RTD Elements

| CODE | | TOLERANCE | TEMPERATURE COEFFICIENT |
|---------|---------|-----------|--|
| Single | Duplex | | |
| RBF185L | RBF285L | Class B | $\alpha = 0.003 \text{ 85 } ^\circ\text{C}^{-1}$ |
| RAF185L | RAF285L | Class A | $\alpha = 0.003 \text{ 85 } ^\circ\text{C}^{-1}$ |

1-1 Element Connection

| CODE | DESCRIPTION |
|-------|----------------|
| 3 | 3-Wire Element |
| 4 [1] | 4-Wire Element |

[1] Not Available in Duplex

1-2 Assembly Types and Options

| SINGLE-WALL RTD SENSOR | |
|------------------------|--|
| CODE | DESCRIPTION |
| STA | Complete assembly, includes sensor, mounting adaptor, and O-ring |
| STS | Replacement sensor, includes sensor, and O-ring |
| DUAL-WALL RTD SENSOR | |
| CODE | DESCRIPTION |
| DTA | Complete assembly, includes sensor, mounting adaptor and O-ring |
| STS | Replacement sensor, includes sensor and O-ring |
| TRI-CLAMP® RTD SENSOR | |
| CODE | DESCRIPTION |
| TTA | Complete assembly, includes sensor, mounting adaptor, clamp, gasket and O-ring |
| TTS | Replacement sensor, includes sensor and O-ring |
| CAN STYLE RTD SENSOR | |
| CODE | DESCRIPTION |
| FCA | Complete assembly, includes sensor, backing nut, mounting adaptor and Teflon® gasket |
| FCS | Replacement sensor, includes sensor and Teflon® gasket |

1-3 Head Terminations and Options

| CODE | DESCRIPTION |
|--|--|
| 63 | White polypropylene screw-cover head |
| 31,W | Aluminum screw-cover head with white epoxy coating |
| 91 | 316 Stainless steel screw-cover head |
| Optional Temperature Transmitters and Head Options | |
| CODE | DESCRIPTION |
| 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 |
| I | Stainless steel identification tag |
| SB | 1/2" NPT conduit reducer bushing |
| NB | 1/2" NPT nylon conduit reducer bushing |

Replacement Parts

| CODE | DESCRIPTION |
|-------|--|
| 13445 | Single-wall tank mounting adaptor (STA assembly) |
| 13446 | Dual-wall tank mounting adaptor (DTA assembly) |
| 13538 | Silicon/Teflon® O-ring for STA and DTA assemblies |
| 13470 | Tank mounting adaptor for Tri-Clamp® assembly |
| 13542 | Silicon/Teflon® O-ring for TTA Tri-Clamp® assembly |
| 13439 | 1 1/2" clamp for TTA Tri-Clamp® assembly |
| 13440 | EDPM gasket for TTA Tri-Clamp® assembly |
| 13447 | Tank mounting adaptor for FCA Can style assembly |
| 13449 | Backing nut for FCA Can style assembly |
| 13448 | Teflon® gasket for FCA Can style assembly |

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