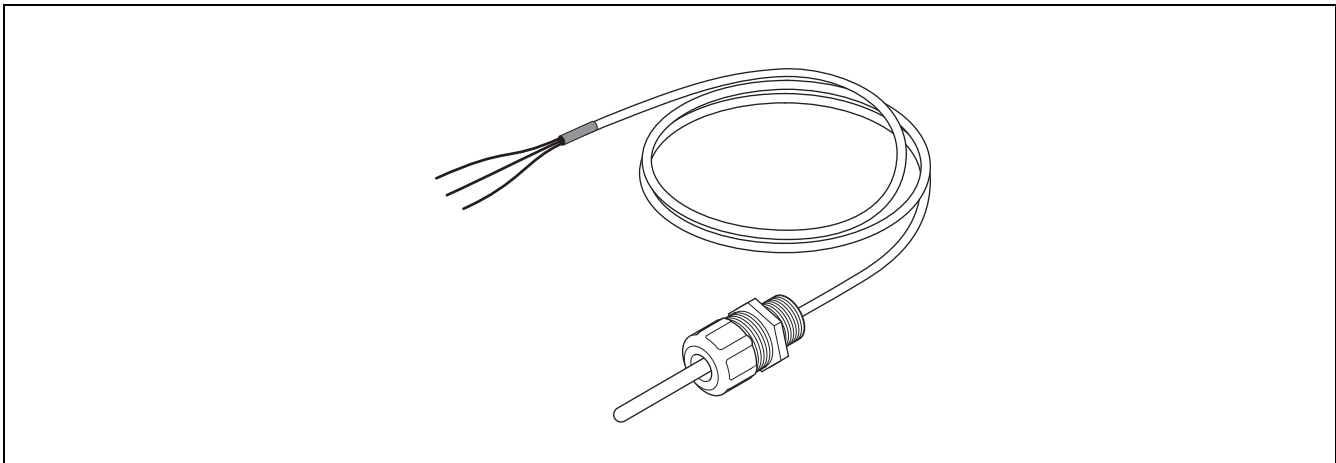


## RTD temperature sensor for ambient sensing

The DigiTrace RTD-200 is a three-wire platinum RTD (resistance temperature detector) typically used with electronic control systems that require accurate ambient

temperature sensing. The RTD-200 comes with a 1/2" NPT fitting that installs to the appropriate conduit box. This allows

mounting of the RTD in a typical ambient location. This also allows for splicing of RTD extension wire back to the controller.



### Specifications

#### Sensor

|            |   |
|------------|---|
| Housing    | 316 stainless steel                                     |
| Dimensions | 3-in (7.6 mm) length, 1/4-in (6 mm) diameter            |
| Accuracy   | ± 0.3°F (± 0.2°C)                                       |
| Range      | -100°F to 300°F (-73°C to 149°C)                        |
| Resistance | 100 ohms ± 0.25 ohm at 0°C $\alpha=0.00385$ ohms/ohm/°C |

#### Extension wire

|                              |   |
|------------------------------|---|
| Wire size (each of three)    | 22 AWG<br><b>Note:</b> The length of RTD extension wires is determined by the wire gauge used. To reduce the likelihood that electrical noise will affect temperature measurement, keep RTD extension wires as short as possible. Use shielded instrument cable such as DigiTrace MONI-RTD-WIRE (22 AWG, PVC insulation, -30°F to 140°F, -20°C to 60°C) or Belden 83553 (22 AWG, FEP insulation, -95°F to 395°F, -70°C to 200°C). |
| Wire dielectric strength     | 600 V   |
| Length                       | 6 ft (1.8 m)  |
| Outer jacket                 | Fluoropolymer   |
| Maximum exposure temperature | 300°F (149°C)   |
| Sensor fitting               | 1/2-in (12.7 mm) NPT with sealing washer and nut  |

### Approvals

Approvals associated with control device. Not to be used in Division 1 areas.

**Worldwide Headquarters  
Tyco Thermal Controls**

7433 Harwin Drive  
Houston, TX 77036  
USA  
Tel: 800-545-6258  
Tel: 650-216-1526  
Fax: 800-527-5703  
Fax: 650-474-7711  
info@tycothermal.com  
www.tycothermal.com

**Canada  
Tyco Thermal Controls**

250 West St.  
Trenton, Ontario  
Canada K8V 5S2  
Tel: 800-545-6258  
Fax: 800-527-5703

**Europe, Middle East, Africa (EMEA)**

**Tyco Thermal Controls**  
Romeinse Straat 14  
3001 Leuven  
België / Belgique  
Tel: +32 16 213 511  
Fax: +32 16 213 603

**Latin America  
Tyco Thermal Controls**

7433 Harwin Drive  
Houston, TX 77036  
United States  
Tel: 713-868-4800  
Tel: 713-735-8645  
Fax: 713-868-2333

**Asia Pacific  
Tyco Thermal Controls**

20F, Innovation Building,  
1009 Yi Shan Rd,  
Shanghai 200233,  
P.R.China  
Tel: +86 21 2412 1688  
Fax: +86 21 5426 2937 / 5426 3167

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