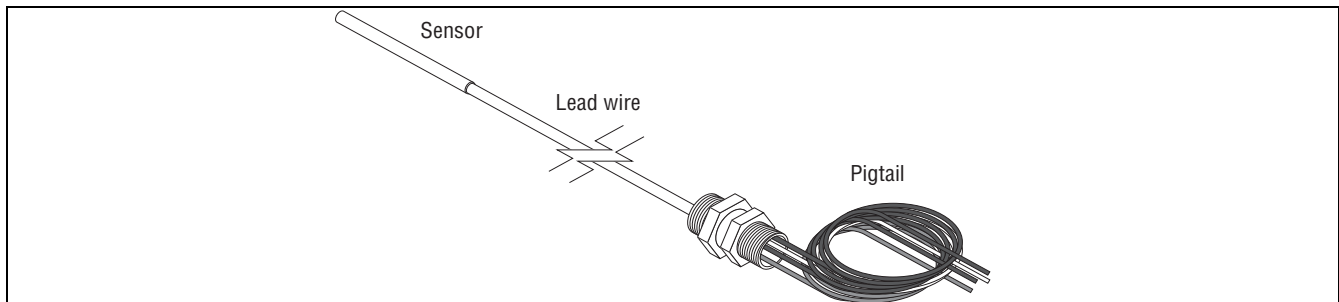


Resistance Temperature Detector (RTD) for temperature measurement up to 1100°F (593°C)

The RTD10 and RTD20 are three-wire platinum RTDs (resistance temperature detectors) typically used with control and monitoring systems when accurate

temperature control is required. These RTDs are designed to withstand highly corrosive applications. The Alloy 825 sheathed lead wire is rugged yet flexible, allowing the

sensor to get around obstructions or into areas where a rigid conduit is not practical.



Specifications

Sensor	
Housing	304 stainless steel
Nominal dimensions	3 in (76 mm) length, 1/4 in (6.4 mm) diameter
Accuracy	±1°F (0.5°C) at 32°F (0°C)
Range	-76°F to 1100°F (-60°C to 593°C)
Resistance	100 ohms at 0°C α =0.00385 ohms/ohm/°C
Extension Wires	
Pigtail wire size (each of 4)	16 AWG, stranded tinned copper Note: 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).
Pigtail wire insulation rating	600 volts
Lengths*	RTD10 – Lead Wire: 10 ft 2 in (3.1 m); Pigtail: 24 in (61 cm) RTD20 – Lead Wire: 20 ft 2 in (6.1 m); Pigtail: 24 in (61 cm) *RTDs in lengths of 1, 3, 7, 15, 25, 30, 50, 75, and 100 ft are available. Contact Tyco Thermal Controls for additional information.
Lead wire outer sheath	Alloy 825 stainless steel – 3/16 in (4.7 mm) diameter
Maximum exposure temperature	1100°F (593°C)
Conduit bushing	1/2-in (12.7 mm) NPT, nickel-plated brass gland
Additional Materials Required	Pipe straps

Approvals

Hazardous Locations



Class I, Div. 1 & 2, Groups A, B, C, D
Class II, Div. 1 & 2, Groups E, F, G
Class III



Class I, Div. 1 & 2, Groups A, B, C, D
Class II, Div. 1 & 2, Groups E, F, G
Class III

The RTD10 and RTD20 are approved for Division 1 and 2 only when used with an appropriately rated enclosure suitable for the specific hazardous location.

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