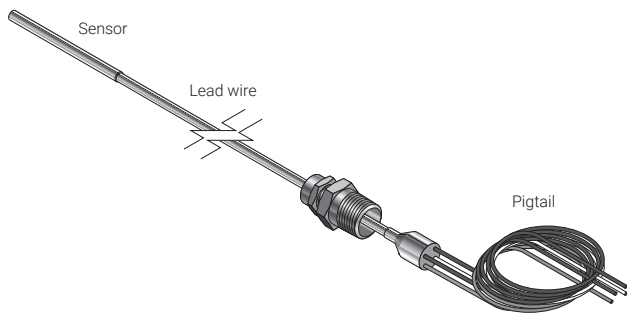


## RESISTANCE TEMPERATURE DETECTOR (RTD) FOR TEMPERATURE MEASUREMENT UP TO 1100°F (593°C)



### PRODUCT OVERVIEW

These three-wire platinum nVent RAYCHEM RTD's (resistance temperature detectors) are designed to withstand highly corrosive applications and are typically used with control and monitoring systems when accurate temperature control is required. 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 $\alpha$ = 0.00385 ohms/ohm/°C

#### Lead Wire

Outer sheath	Alloy 825 stainless steel - 3/16 in (4.8 mm) in diameter
Length*	RTD10 – 10.2 ft (3.1 M)
	RTD20 – 20.2 ft (6.1 M)
	<b>Note:</b> RTDs are available in lengths of 1, 3, 7, 15, 25, 30, 50, 75, and 100 ft. Contact nVent RAYCHEM Management for additional information.
Maximum exposure temperature	1100°F (593°C)
Conduit connector	1/2" NPT, 303 MX stainless steel

#### Pigtail

Length*	24 in (61 cm)
Pigtail wire size (each of 4)	16 AWG, stranded tinned copper
	<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 nVent RAYCHEM 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).
Electrical Connection	For connection only to Class 2 circuits

\* Tolerance on length is ±3%.

## ADDITIONAL MATERIALS REQUIRED

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Pipe straps

## APPROVALS

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### Hazardous Locations



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 the appropriately rated enclosure suitable for the specific hazardous location.

### North America

Tel +1.800.545.6258  
Fax +1.800.527.5703  
thermal.info@nvent.com

### Europe, Middle East, Africa

Tel +32.16.213.511  
Fax +32.16.213.603  
thermal.info@nvent.com

### Asia Pacific

Tel +86.21.5426.2937  
Fax +86.21.2412.1688  
cn.thermal.info@nvent.com

### Latin America

Tel +1.713.868.4800  
Fax +1.713.868.2333  
thermal.info@nvent.com



[nVent.com](http://nVent.com)

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