

- 3-wire Platinum Pt100 RTD output
- Attachment probe, sensor, and Teflon cable
- Compatible with PLCs, meters, data acquisition, and hazard monitoring system with 3-wire Pt100 RTD- inputs
- Integral 1/2 in. flexible liquid-tight conduit fittings (RTDZ/S-LT models)
- Intrinsically Safe (IS) Class I, Div I (A, B, C, D), Class II, Div I (E, F, G) I.S. Simple Apparatus

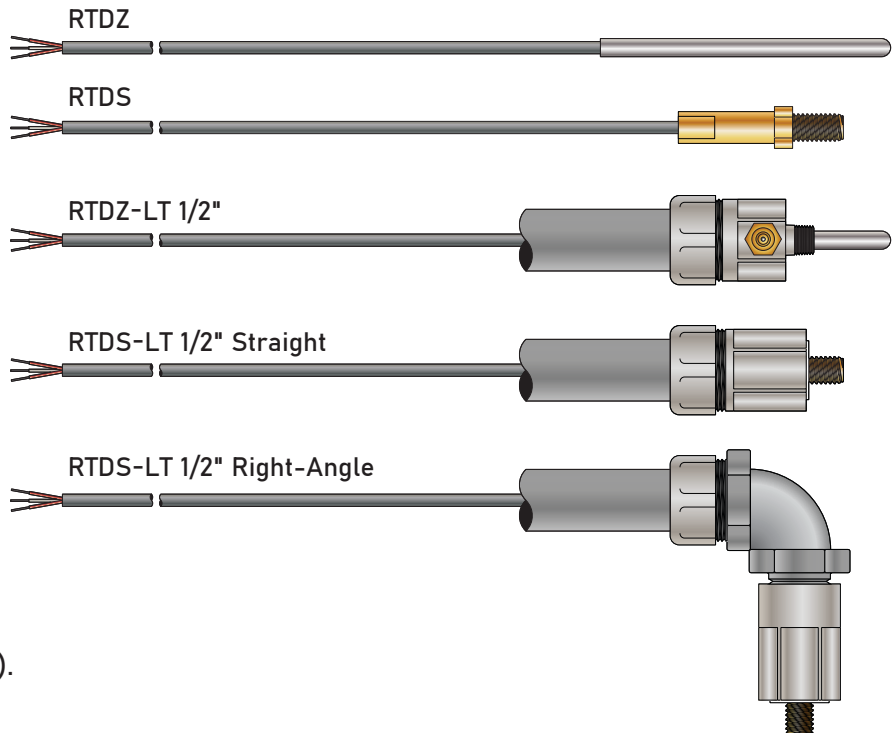


## Description

RTDZ, RTDZ-LT, RTDS and RTDS-LT are resistance-output Pt100 RTD temperature sensors with 3-wire Teflon cable (specify length). The measurement probe and fitting options are optimized for many industrial applications including Class II grain handling facility shaft bearing (RTDZ-LT) and belt rub-block (RTDS-LT) temperature measurement. For Hazardous (Classified) Location installation, the RTD sensor must be installed with a correct and approved Intrinsically Safe (I.S.) Barrier in accordance with the I.S. Barrier Control Drawing and all applicable National Electrical Codes.

## Models

- RTDZ models have 1/4 in. diameter stainless steel probes (specify length).
- RTDS models have a 3/8-16 in. brass stud probe.
- RTDZ-LT (1/2 in.) models are RTDZ models with a detachable 1/2 in. flexible liquid-tight Z-LT conduit fitting.
- RTDS-LT (1/2 in.) models are an RTDS with a fixed (non-detachable) 1/2 in. flexible liquid-tight conduit fitting (specify straight or right-angle).

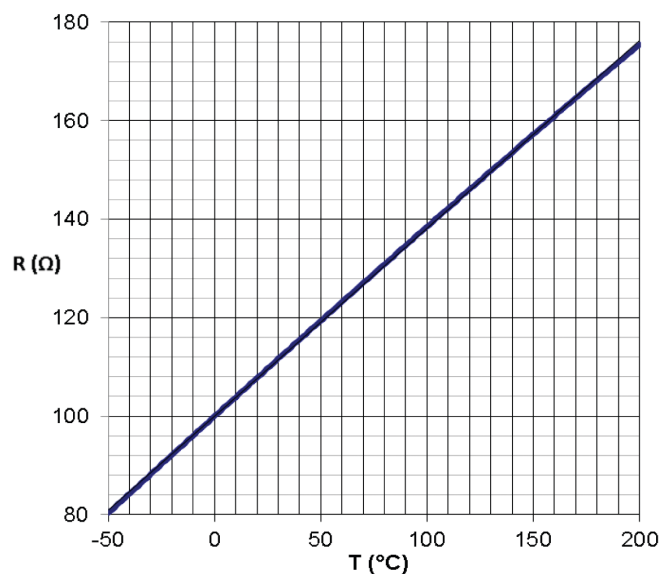


## Product Specifications

RTD/RTD-LT Specifications	
Measurement Range (RTDZ/RTDS)	-50 °C → +200 °C (-58 °F → +392 °F)
Measurement Range (RTDZ-LT/RTDS-LT)	-50 °C → +150 °C (-58 °F → +302 °F) at probe
Output Signal	Resistance (Platinum Pt100 RTD, 100Ω @ 0 °C)
Temperature Coefficient (Alpha α)	0.385Ω/°C (0 °C) Class B DIN (or better) Max error (°C) = ±(0.3 + 0.005*T)
Configuration	3-Wire

Specifications subject to change without notice.

## R/T Relationship



## Ordering

Model	Part Number
RTDS (10 ft. Cable)	800-001551
RTDS (20 ft. Cable)	800-001561
RTDZ (10 ft. Cable, 4 in. Probe)	800-001552
RTDZ (10 ft. Cable, 6 in. Probe)	800-001562
RTDZ (20 ft. Cable, 4 in. Probe)	800-001560
RTDZ (20 ft. Cable, 6 in. Probe)	800-001564
RTDS-LT (1/2 in., 10 ft. Cable, Straight)	800-001538
RTDS-LT (1/2 in., 10 ft. Cable, Right-Angle)	800-001556
RTDS-LT (1/2 in., 20 ft. Cable, Right-Angle)	800-001559
RTDZ-LT (1/2 in., 10 ft. Cable, 4 in. Probe)	800-001557
RTDZ-LT (1/2 in., 10 ft. Cable, 6 in. Probe)	800-001563
RTDZ-LT (1/2 in., 20 ft. Cable, 4 in. Probe)	800-001558
RTDZ-LT (1/2 in., 20 ft. Cable, 6 in. Probe)	800-001565

## Accessories

Accessory	Part Number
I.S. Barrier (for classified environments)	597-000106
NPT Adapter 1/8 to 1/4, Stainless Steel	300-004100
NPT Adapter 1/8 to 1/2, Stainless Steel	300-004101
Lug (3/8-16)	776-001300
MM (3/8-16 magnet mount)	776-001400

## Customization

If one of our standard products does not meet your specifications, please call one of our applications specialists. Many of our products can be customized to fit specific needs.

## Additional Information

For more information about product, please refer to the RTD/RTD-LT Temperature Sensor Installation and Operating Manual.

Email: [sales@electro-sensors.com](mailto:sales@electro-sensors.com)

Tel: (800)328-6170

Fax: (952)930-0130

We also have more information online at:  
[www.electro-sensors.com](http://www.electro-sensors.com)