Temperature Transmitter
With Display and RTD Sensor

PRTXD Series

1 YEAR WARRANTY

- ✔ **2-Wire Transmitter**
- ✔ **4 to 20 mA Output**
- ✔ **4½ Digit, 2 Line LCD**
- ✔ **RTD Probe Included**
- ✔ **NEMA 4X (IP66) Housing**

The PRTXD Series are 2-wire transmitters that provide a 4 to 20 mA signal representing temperature. The units include a 4½ digit display and the RTD sensor. The NEMA 4X (IP66) housing protects the electronics. Units are available with spring-loaded probes for use with thermowells.

Specifications

Sensor: 100 W RTD element, 0.00385 alpha coefficient IEC-751 class B: ±0.3°C at 0°C, ±1.1°C at 150°C
Display: 4½ digit LCD, ½" digit height, 4 readings per second, nominal display update rate
Range: -50.0 to 200.0°C (-58.0 to 392.0°F)
Out of Range Indication:
   ALARM 1: On display above 200°C (392°F)
   ALARM 2: On display below -50°C (-58°F)
Loop Supply Voltage: Any DC supply/loop resistance that maintains 8 to 32 Vdc at gauge terminals (reverse polarity protected)
Loop Output Characteristics: 4 to 20 mA output (see chart for loop voltage characteristics), minimum 8V required at gauge terminals at all times for proper operation
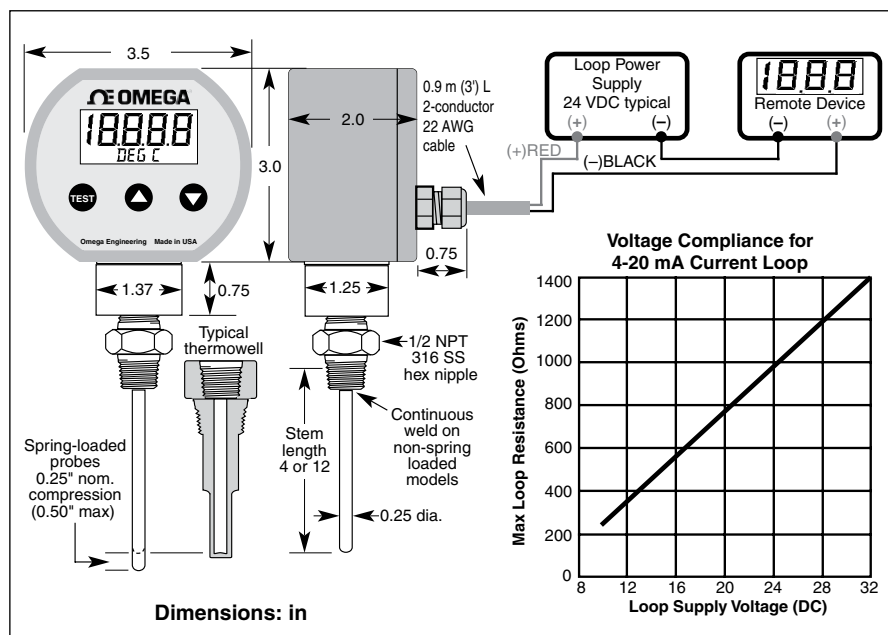**Test Function:** Front panel TEST button when held, sets loop current and display to test calibration level, independent of temperature input to allow testing of system operation
**Wiring Connections
(See Drawing):** 0.9 m (3') long, 2-conductor 22 AWG cable
Material and Color: NEMA 4X (IP66) ABS/Polycarbonate housing, light gray gasketed rear cover connection and probe material: ½ NPT male hex nipple, 316 stainless steel probe sheath
Operating Temperature (Electronics): -20 to 85°C (-4 to 185°F)

Storage Temperature: -40 to 95°C (-40 to 203°F)
Weight:
   Transmitter: Approx 340 g (12 oz)
   Shipping Weight: Approx 450 g (1 lb)
Resolution: 0.1 degree
Accuracy: ±0.1% of span plus max sensor error of ±0.3°C at 0°C or ±1.1°C at 150°C

Thermowells Available from OMEGA

PRTXD-4 shown smaller than actual size.

Dimensions: in

Voltage Compliance for 4-20 mA Current Loop

To Order

Model No.	Description
PRTXD-4	RTD transmitter with display and 4" sensor
PRTXD-4-SL	RTD transmitter with display and 4" spring-loaded sensor†
PRTXD-12	RTD transmitter with display and 12" sensor
PRTXD-12-SL	RTD transmitter with display and 12" spring-loaded sensor†

Comes complete with operator's manual.
† Thermowell required for spring-loaded versions, for 4 and 12" sensors.
***Ordering Example: PRTXD-12,** RTD transmitter with display and 12" sensor.*