Temperature Transmitter
With Display and RTD Sensor

PRTXD Series

- 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, ±0.1°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

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>PRTXD-4</td>
<td>RTD transmitter with display and 4” sensor</td>
</tr>
<tr>
<td>PRTXD-4-SL</td>
<td>RTD transmitter with display and 4” spring-loaded sensor†</td>
</tr>
<tr>
<td>PRTXD-12</td>
<td>RTD transmitter with display and 12” sensor</td>
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<td>PRTXD-12-SL</td>
<td>RTD transmitter with display and 12” spring-loaded sensor†</td>
</tr>
</tbody>
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† Thermowell required for spring-loaded versions, for 4 and 12” sensors.

Ordering Example: PRTXD-12, RTD transmitter with display and 12” sensor.

Comes complete with operator’s manual.

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