Weather Resistant Temperature-to-Wireless Transmitters for Pt100 RTDs

Connects Directly to All RTD Probes Including OMEGA’s Sanitary Probes with M12 Connectors!

✓ Transmit RTD Data Wirelessly to a PC or the Internet
✓ Weather Resistant NEMA 4X (IP65) Enclosure
✓ 0.00385 or 0.00392 Curve Pt100 Input
✓ Transmit Data in Real-Time up to 120 m (400’)
✓ Each Wireless Connector Transmits Measured and Ambient Temperatures, Signal Strength and Battery Status in Real-Time
✓ Compatible with UWTC-REC Wireless Receivers—Create 32- or 48-Channel Wireless Systems
✓ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger

UWRTD-2A-NEMA, UWRTD-2A-NEMA-M12

Complete Your Wireless System With a USB or Web-Based Receiver! Visit us Online!

The UWRTD-2A-NEMA and UWRTD-2A-NEMA-M12 weather resistant RTD-to-wireless transmitters are weather-resistant, battery powered units that transmit temperature data back to a host receiver up to 120 m (400’) away. Compatible with both 0.00385 and 0.00392 curve Pt100 RTD sensors, the UWRTD will transmit the measured and ambient temperatures, along with RF signal strength and battery condition to a remote host, such as the UWTC-REC Series. You can program the UWRTD to transmit your data at rates from two seconds to two minutes. Data received by the UWTC-REC can be received and displayed on your computer, using the TC Central software included with each compatible receiver. TC Central software can turn your PC into a strip chart recorder or data logger so readings can be saved and later printed or exported to a spreadsheet file.

M12C-PUR-4-R-F-2 polyurethane cable, 4-pin M12 right angled female connector one end, flying leads one end, 2 m (6.5’) long, sold separately.
Specifications:

**Input:** 100 Ω Pt RTD; 0.00385 or 0.00392 curve; software selectable

**Range:**
- **Pt100, 0.00385:** -200 to 850°C (-328 to 1562°F)
- **Pt100, 0.00392:** -100 to 457°C (-148 to 854°F)

**Accuracy:** ±0.5°C (1.0°F)

**Resolution:** 1°C (1°F)

**Operating Environment:** -10 to 70°C (14 to 158°F)

**Sensor Connection:** Internal connection block or M12 connector

**Transmit Sample Rate:** Programmable from 2 sec to 2 min

**Radio Frequency (RF) Transceiver**

**Carrier:** ISM 2.4 GHz, direct sequence spread spectrum

**RF Output Power:** 10 dBm (10 mW)

**Range of RF Link:**
- **Outdoor Line of Sight:** Up to 120 m (400')
- **Indoor/Urban:** Up to 40 m (130')

**RF Data Packet Standard:** IEEE 802.15.4, open communication architecture

**Battery:** One 3.6V lithium “C” cell battery (included)

**Battery Life (Typical):** 3 years at 1 sample/min reading rate @ 25°C

**Data Transmitted to Host:**
- Measured and ambient temperatures, RF transmit strength and battery condition
- **Case:** NEMA 4X (IP65)
- **Polycarbonate**

**Dimensions:**
- 145.8 L x 94.7 W x 50.8 mm H (5.74 x 3.73 x 2")

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>UWRTD-2A-NEMA</td>
<td>Wireless RTD transmitter with NEMA enclosure</td>
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<tr>
<td>UWRTD-2A-NEMA-M12</td>
<td>Wireless RTD transmitter with NEMA enclosure, M12 connector</td>
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**Receivers/Accessories**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tr>
<td>UWTC-REC1</td>
<td>USB powered 48-channel transmitter receiver</td>
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<tr>
<td>UWTC-REC2-(*</td>
<td>48-channel receiver with analog output</td>
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<tr>
<td>UWTC-REC2-D-(*</td>
<td>48-channel receiver with analog output and display</td>
</tr>
<tr>
<td>UWTC-REC3</td>
<td>32-channel wireless receiver with ethernet</td>
</tr>
<tr>
<td>UWTC-REC4-(*</td>
<td>48-channel DIN rail receiver with 4 analog outputs and alarms</td>
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<tr>
<td>UWTC-REC6-(*</td>
<td>1-channel transceiver with analog output</td>
</tr>
<tr>
<td>PRTF-10-2-100-1/4-6-E</td>
<td>General purpose RTD sensor probe with PFA insulated jacketed cable</td>
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<tr>
<td>UWTC-CABLE</td>
<td>Spare USB programming/communication cable</td>
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<tr>
<td>UWM-DINRAIL</td>
<td>Din rail mounting bracket assembly</td>
</tr>
<tr>
<td>BATT-C-3.6V</td>
<td>Replacement 3V C cell Li battery</td>
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Comes complete with antenna, NEMA case, transmitter, and 3.6V lithium “C” cell battery. **UWRTD-2A-NEMA-M12** units include M12 mating connector for RTD input.

* Specify analog output signal: “V1” for 0 to 5 Vdc; “V2” for 0 to 10 Vdc, or “MA” for 4 to 20 mA.

**Ordering Examples:** UWRTD-2A-NEMA, wireless NEMA RTD/transmitter, UWTC-REC1, 48-channel USB receiver, PRTF-10-2-100-1/4-6-E, general purpose RTD sensor probe.

**Note:** Because of transmission frequency regulations, these products may only be used in the United States, Canada, Europe and China.