

Weather Resistant Temperature-to-Wireless Transmitters for Pt100 RTDs

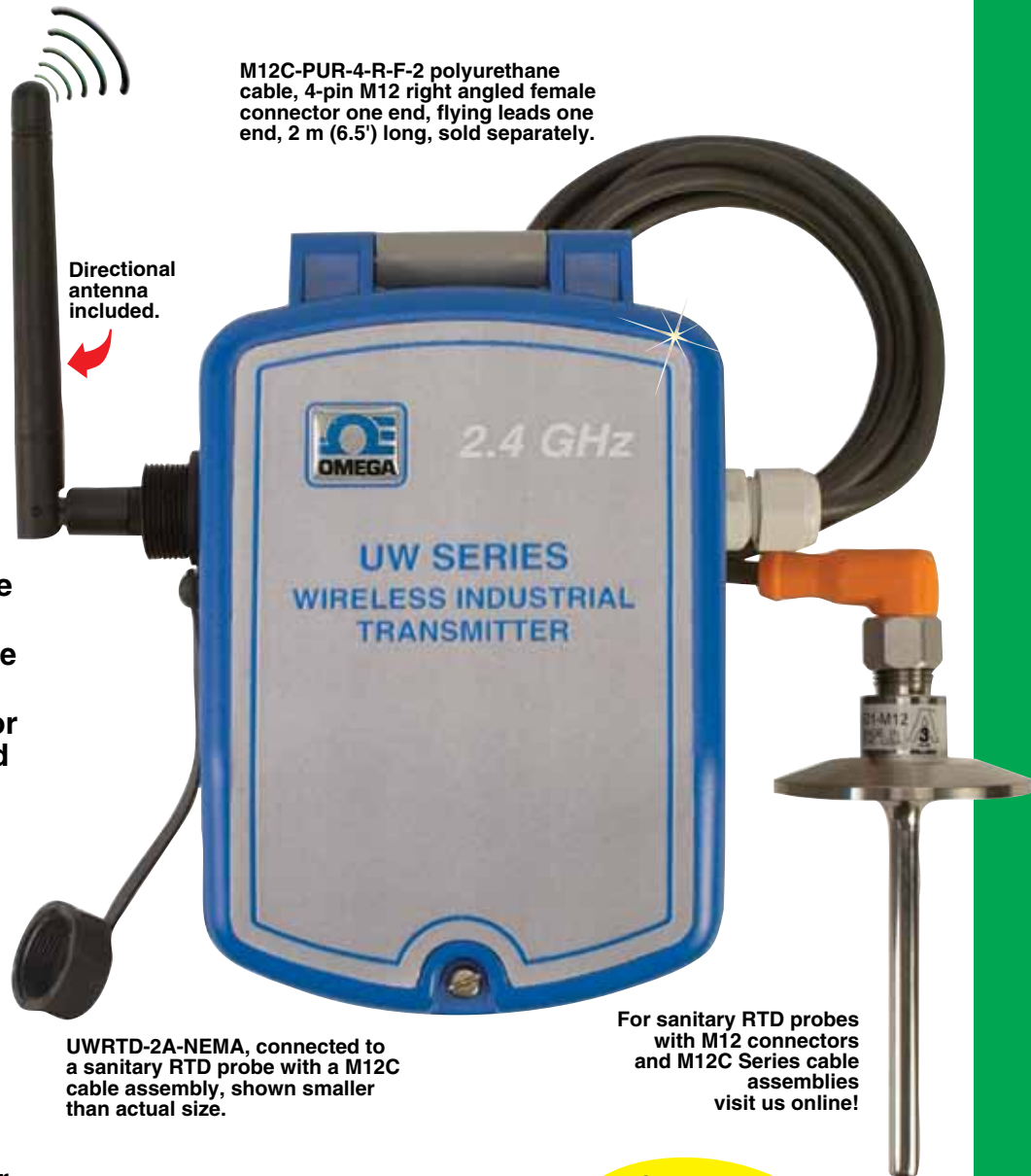
*Connects Directly to All RTD Probes Including OMEGA's
Sanitary Probes with M12 Connectors!*

**UWRD-2A-NEMA,
UWRD-2A-NEMA-M12**



- ✓ 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

The UWRD-2A-NEMA and UWRD-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 UWRD will transmit



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.

Directional antenna included.

UWRD-2A-NEMA, connected to a sanitary RTD probe with a M12C cable assembly, shown smaller than actual size.

For sanitary RTD probes with M12 connectors and M12C Series cable assemblies visit us online!

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 UWRD 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.

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

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

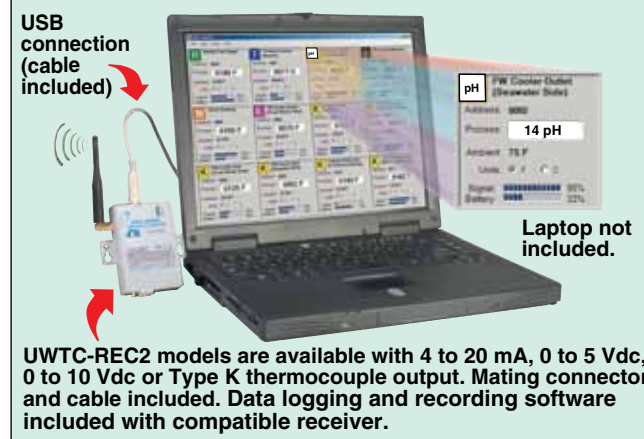
Battery: One 3.6V lithium "C" cell battery (included)

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

Directional antenna included.



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")



UWTRD-2A-NEMA-M12 models are available with 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc or Type K thermocouple output. Mating connector and cable included. Data logging and recording software included with compatible receiver.

UWTRD-2A-NEMA-M12, connected to RTD probe, shown smaller than actual size.

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

To Order

Model No.	Description
UWTRD-2A-NEMA	Wireless RTD transmitter with NEMA enclosure
UWTRD-2A-NEMA-M12	Wireless RTD transmitter with NEMA enclosure, M12 connector

Receivers/Accessories

Model No.	Description
UWTC-REC1	USB powered 48-channel transmitter receiver
UWTC-REC2-(*)	48-channel receiver with analog output
UWTC-REC2-D-(*)	48-channel receiver with analog output and display
UWTC-REC3	32-channel wireless receiver with ethernet
UWTC-REC4-(*)	48-channel DIN rail receiver with 4 analog outputs and alarms
UWTC-REC6-(*)	1-channel transceiver with analog output
PRTF-10-2-100-1/4-6-E	General purpose RTD sensor probe with PFA insulated jacketed cable
UWTC-CABLE	Spare USB programming/communication cable
UWM-DINRAIL	DIN rail mounting bracket assembly
BATT-C-3.6V	Replacement 3V C cell Li battery

Comes complete with antenna, NEMA case, transmitter, and 3.6V lithium "C" cell battery. UWTRD-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: UWTRD-2A-NEMA, wireless NEMA RTD/transmitter, UWTC-REC1, 48-channel USB receiver, PRS-3-100-A-S-0300-D1-M12, 3-A approved sanitary RTD sensor with M12 connector, and M12C-PUR-4-R-F-5 micro DC extension cable assembly with right angle connection.

UWTRD-2A-NEMA-M12, wireless NEMA RTD/transmitter M12, UWTC-REC1, 48-channel USB receiver, and PRTF-10-2-100-1/4-6-E, general purpose RTD sensor probe.