



Wireless RTD

Probe/Transmitter Assembly For Use in Sanitary Applications

UWRTD-NB9W Series

Starts at

\$265



- ✓ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✓ Complete Industrial Assembly—Includes Probe, Transmitter Housing/Head, Integral Wireless Transmitter and Long Life Battery
- ✓ Stainless Steel Construction with White Polypropylene Transmitter Housing
- ✓ Available with 3-A Approved Thermowells for Clean-in-Place (CIP) Applications
- ✓ Transmit up to 120 m (400')
- ✓ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger
- ✓ Each Wireless Connector Transmits Sensor Temperature, Ambient Temperature, Signal Strength and Battery Status in Real Time
- ✓ Low Power Operation, Sleep Mode for Long Battery Life
- ✓ Compatible with UWTC-REC Wireless Receivers, Wi Series Meter/Controller/Scanner and DIN Rail Receivers—Create 32- or 48-Channel Wireless Systems

The OMEGA® wireless RTD industrial probe assemblies for sanitary applications feature a complete, ready to install, pre-wired Pt100 sensor and wireless transmitter package. Built into the NB9W white polypropylene head is a wireless transmitter that can transmit temperature readings back to a host receiver up to 120 m (400') away. The probes transmit the measured temperature, along with the head ambient temperature, RF signal strength and battery condition to a remote host, such as the UWTC-REC Series. You can program the UWTC-NB9 to transmit your data at rates from once every 2 seconds to every 2 minutes.

Data received by the UWTC-REC can be received and displayed on your computer, using the TC Central software included with each unit. The UWTC-REC1 is a 48-channel receiver with USB connection; the UWTC-REC-2 adds an analog output that can be used to retransmit a 0 to 5 Vdc, 0 to 10 Vdc, Type K thermocouple or 4 to 20 mA signal to a remote meter, controller, PLC or data acquisition instrument. Both are available with an optional NEMA-rated enclosure. The TC Central software (included) 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.

FCC/Industry
Canada
Approved



UWRTD-NB9W-1PT316-14-4,
\$265, shown actual size.

Another
Sani-Fit™ Product
from OMEGA

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



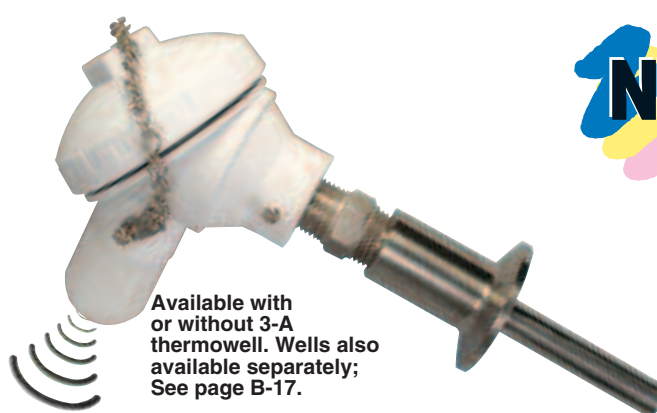
UWTC-REC2 wireless receiver
with analog output, \$235. See receivers
on pages W-25 and W-26.

Typical Wireless System

With OMEGA's wireless probes and receivers you can connect directly to a process recorder, as well as to your computer, to print and save your data!



TC Central Software Included. See Page W-26 for Details.



Available with or without 3-A thermowell. Wells also available separately; See page B-17.



Up To 48 Channels!



USB



Analog output

UWTC-REC2 wireless receiver with analog output, \$235, see receivers on page W-25.



CTXL-DPR chart recorder, \$795, see pages S-37 thru S-44.

Specifications

(See page W-27 for complete specifications)

Input Type: 100 Ω Pt RTD; 0.00385 (Class A) or 0.00392 curve; 500 Ω , 1000 Ω elements also available by special order

Measurement Range:

0.00385: -200 to 850°C (-328 to 1562°F)

0.00392: -100 to 457°C (-148 to 854°F)

Accuracy: $\pm 0.5^\circ\text{C}$ (1°F)

Resolution: $1^\circ\text{C}/1^\circ\text{F}$

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

Transmit Sample Rate: Programmable from 2 sec to 2 min

Battery Life: 3 yr at 1 sample/min rate @ 25°C (77°F)

Probe Assembly Material: 304 SS or 316 SS

Transmitter Housing Material:

White polypropylene head

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

MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
UWRTD-NB9W-(+)-(++)-4	\$265	Wireless RTD probe/transmitter/head assembly (4" probe)
UWRTD-NB9W-(+)-(++)-6	275	Wireless RTD probe/transmitter/head assembly (6" probe)
UWRTD-NB9W-(+)-(++)-4-B	390	Wireless RTD probe/transmitter/head assembly with 11/2-S-260-U21/2-316SS thermowell
UWRTD-NB9W-(+)-(++)-6-C	420	Wireless RTD probe/transmitter/head assembly with 11/2-S-260-U41/2-316SS thermowell

UWRTD-NB9 comes complete with probe, head/transmitter/antenna assembly and battery.

† Specify sensor type and probe sheath: "1PT304" for 100 Ω , 0.00385 curve with 304 SS sheath, "1PT316" for 100 Ω , 0.00385 curve with 316 SS sheath, "2PT304" for 100 Ω , 0.00392 curve with 304 SS sheath, or "2PT316" for 100 Ω , 0.00392 curve with 316 SS sheath, no additional charge.

†† Specify sheath diameter: "116" for 1.59 mm ($1/16$ "), "18" for 3.18 mm ($1/8$ "), "316" for 4.78 mm ($3/16$ "), or "14" for 6.35 mm ($1/4$ ").

Ordering Examples: UWRTD-NB9W-1PT316-14-4-B, wireless RTD probe assembly, 100 Ω , 0.00385 curve, 316 SS sheath, 6.35 mm ($1/4$ ") sheath diameter, 102 mm (4") long, with 1 1/2-S-260-U21/2-316SS sanitary thermowell with 2 1/2" insertion length, \$390.

UWRTD-NB9W-1PT316-18-6, wireless RTD probe assembly, 100 Ω , 0.00385 curve, 316 SS sheath, 3.18 mm ($1/8$ ") sheath diameter, 152 mm (6") long, \$275.



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Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters