Wireless pH/Temperature Transmitter

with Automatic Temperature Compensation

UWPH-2-NEMA

1 YEAR WARRANTY

- **0 to 14 pH and 0 to 100°C (32 to 212°F) Ranges**
- **Transmit Data in Real-Time, Up to 120 m (400')**
- **Free Software Converts Your PC into a Multi-Channel Chart Recorder or Data Logger**
- **Low Power Operation and Sleep Mode**
- **Works with UWTC-REC Receivers for a Complete Wireless System**

OMEGA's new wireless pH/temperature transmitter features a high performance microprocessor based wireless radio transmitter built into a NEMA enclosure. Compatible with most pH probes with a BNC connector, the UWPH provides fast, accurate readings. For automatic temperature compensation, the UWPH accepts a Pt100 RTD probe through a standard (series T) connector. Configured through a standard USB port, the UWPH can transmit data at rates from every 2 seconds to every 2 minutes. Each transmitted reading includes the pH and temperature data, along with RF signal strength and battery condition to the host. Using the standard software (included), this data can be displayed on screen in real time. The software allows the user to use your PC as a meter, chart recorder or data logger, so data can be saved, or exported to a spreadsheet file.

Works with Wireless Receivers:

- **UWTC-REC1 48-Channel Receiver**
- **UWTC-REC2 48-Channel Receiver with Analog Output and Alarm**
- **UWTC-REC4 DIN Rail Mount 4-Channel Receiver with 4-Channel Analog Output and Alarms**
- **UWTC-REC6 1-Channel Receiver with Analog Output**

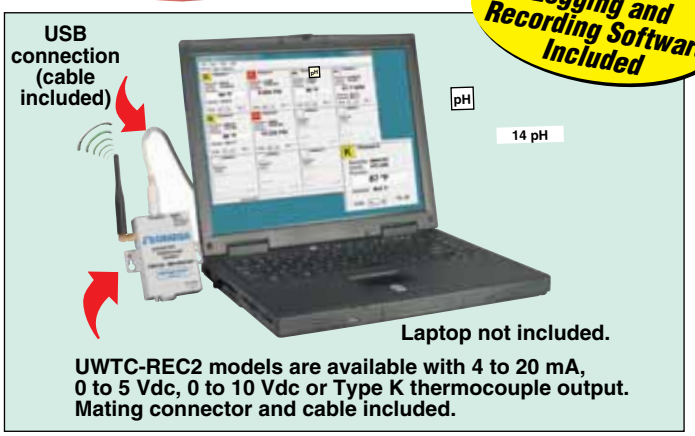
Weather Proof/ Wall Mounted

UWPH-2-NEMA, wireless pH/temperature transmitter.

FCC/Industry Canada Approved

All models shown smaller than actual size.

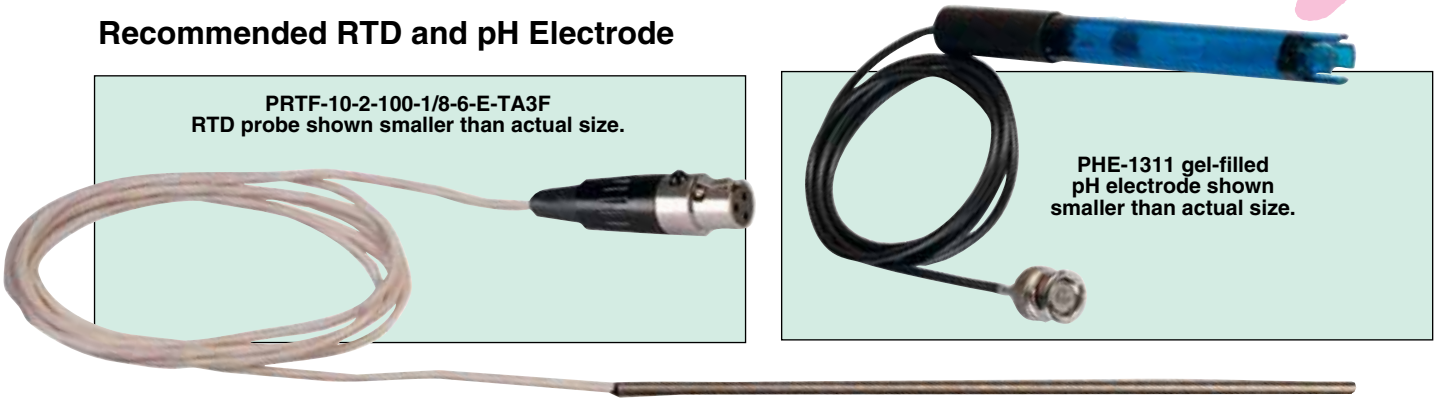
Data Logging and Recording Software Included



Laptop not included.

UWTC-REC2 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.

Recommended RTD and pH Electrode



SPECIFICATIONS

Input Range: 0 to 14 pH
Accuracy: ±0.1 pH
Resolution: 0.01 pH
Response Time: 2 second max
Input Connection: BNC
Temperature Compensation: Automatic, 0 to 100°C (32 to 212°F)
RTD Temperature Input:
Input Type: Pt100 Ω, 0.00385 curve
Range: 0 to 100°C (32 to 212°F)
Accuracy: ±1°C (1.8°F)
Resolution: 0.1°

Input Connection: TA3M receptacle; TA3F mating connector (included)
Computer Interface: USB
Transmit Sample Rate: Programmable from 2 seconds to 2 minutes
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
Software (Included Free): Requires Windows® 2000, XP or Vista (32-bit) operating system
Power: One 3.6V, lithium "C" cell (included)
Battery Life (Typical): 3 years; 1 sample/minute reading rate @ 25°C
Enclosure: NEMA 4X polycarbonate
Enclosure Dimensions: 80 L x 82 mm W (3.15 x 3.23")
Note: *pH and RTD probes sold separately.*

To Order

Model No.	Description
UWPH-2-NEMA	Wireless pH/temperature transmitter

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-REC4-(*)	48-channel DIN rail receiver with 4 analog outputs and alarms
UWTC-REC6-(*)	1-channel transceiver with analog output
UWTC-CABLE	Spare USB programming/communication cable
UWTC-BATT-C	Replacement 3.6V, lithium "C" cell battery assembly
PHE-1311	Gel-filled pH electrode, general purpose
PRTF-10-2-100-1/8-6-E-TA3F	Pt100 RTD probe, ⅛" dia, 6" L, with 40' PFA insulated cable with TA3F connector
PHA-4	4.00 pH buffer solution 500 mL (1 pint) bottle
PHA-7	7.00 pH buffer solution 500 mL (1 pint) bottle
PHA-10	10.00 pH buffer solution 500 mL (1 pint) bottle

Comes complete with one 3.6V lithium "C" cell assembly, TA3F RTD mating connector, and operator's manual. UWTC-REC2 units also include DC power adaptor.

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

Ordering Example: UWPH-2-NEMA, *wireless pH/temperature transmitter,* ***UWTC-REC1,*** *USB powered 48-channel transmitter receiver,* ***PHE-1311,*** *gel-filled pH electrode and* ***PRTF-10-2-100-1/8-6-E-TA3F,*** *Pt100 RTD probe.*