

Weather Resistant Wireless pH/Temperature Transmitter with Automatic Temperature Compensation

UWPH-2A-NEMA-M12

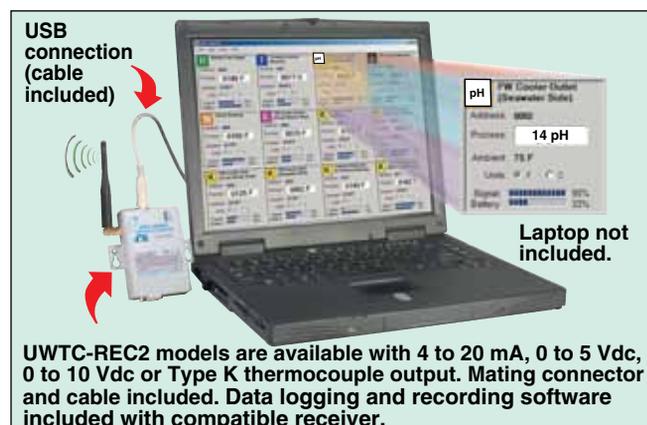


- ✓ Weather Resistant NEMA 4X (IP65) Enclosure
- ✓ 0 to 14 pH and 0 to 100°C (32 to 212°F) Ranges
- ✓ Transmit Data in Real-Time, Up to 120 m (400')
- ✓ Low Power Operation and Sleep Mode
- ✓ Works with UWTC-REC Receivers for a Complete Wireless System



UWPH-2A-NEMA-M12, wireless pH/temperature transmitter (included).

OMEGA's 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 M12 connector. Configured through a standard USB port, the wall mountable 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 with each compatible receiver), 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.



PHE-1311, gel-filled pH electrode, sold separately.

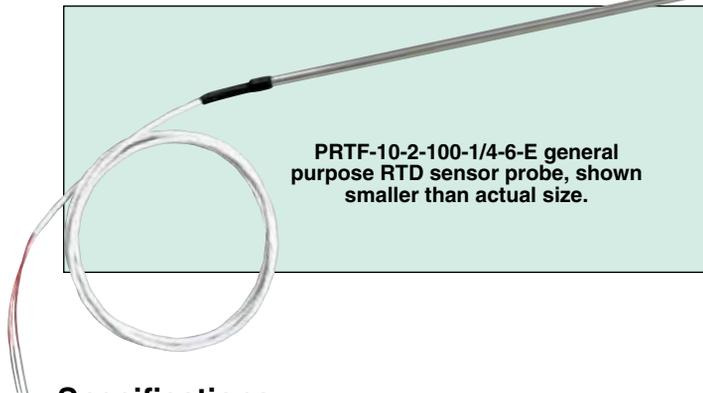
For Available Receivers, Visit Us Online



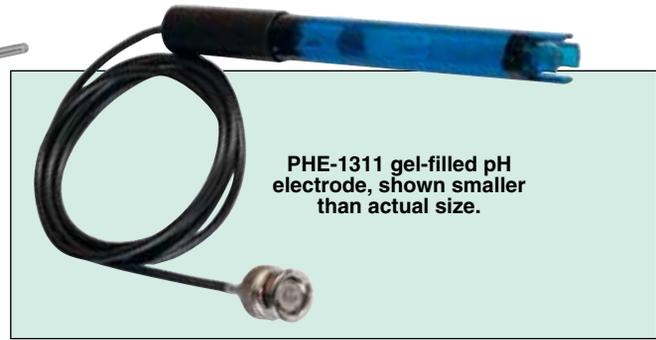
All models shown smaller than actual size.

PRTF-10-2-100-1/8-6-E-TA3F, RTD probe, sold separately.

Recommended RTD and pH Electrode



PRTF-10-2-100-1/4-6-E general purpose RTD sensor probe, shown smaller than actual size.



PHE-1311 gel-filled pH electrode, shown smaller than actual size.

Specifications

Input Range: 0 to 14 pH

Accuracy: ± 0.1 pH

Resolution: 0.01 pH, 0.1°C (0.1°F)

Response Time: 2 sec maximum

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: $\pm 1^\circ\text{C}$ (1.8°F)

Resolution: 0.1°

Input Connection:

M12 4-pin male connector

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

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

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

Enclosure: NEMA-4X polycarbonate

Enclosure Dimensions:

148.5 L x 94.7 W 50.8 mm H (5.74 x 3.73 x 2")

Note: pH and RTD probes sold separately.

To Order

Model No.	Description
UWPH-2A-NEMA-M12	Wireless pH/temperature transmitter with NEMA enclosure

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
PHE-1311	Gel-filled pH electrode, general purpose
PRTF-10-2-100-1/4-6-E	General purpose RTD sensor probe with PFA insulated jacketed cable
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
UWM-DINRAIL	DIN rail mounting bracket assembly
BATT-C-3.6V	Replacement 3V C cell Li battery
SPRTX-M12CON	Replacement micro DC female straight M12 connector

Comes complete with an antenna, one 3.6V lithium "C" cell battery, M12 mating connector for RTD input, 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 Examples: UWPH-2A-NEMA-M12, wireless pH/temperature transmitter, UWTC-REC2-MA, 48-channel receiver with analog output, PHE-1311, gel-filled pH electrode, and PRTF-10-2-100-1/4-6-E, general purpose RTD sensor.

UWPH-2A-NEMA-M12, wireless pH/temperature transmitter, UWTC-REC1, USB-powered 48-channel transmitter receiver, PHE-1311, gel-filled pH electrode, general purpose, and PRTF-10-2-100-1/4-12-E-GG, general purpose RTD probe with Fiberglass insulated cable.