

Weather Resistant Wireless Relative Humidity/Temperature Transmitter

UWRH-2A-NEMA-M12,
UWRH-2A-NEMA-M12-CABLE



For Available
Receivers,
Visit us Online!



Directional
antenna
included.

UWRH-2A-NEMA-M12, wireless relative humidity temperature transmitter includes zTHP2 probe, shown smaller than actual size.

- ✔ Transmits Data Wirelessly in Real-Time up to 120 m (400')
- ✔ Weather Resistant NEMA 4X (IP65) Enclosure
- ✔ Measures Both Relative Humidity and Temperature in One Unit
- ✔ Low Power Operation and Sleep Mode For Long Battery Life
- ✔ Transmits Relative Humidity, Ambient Temperature, Signal Strength and Battery Status in Real Time
- ✔ Works with Any UWTC Series Wireless Receivers and Transceivers

OMEGA's wireless relative humidity transmitter features a stand-alone, compact, battery powered NEMA design that transmits measurements back to a host receiver up to 120 m (400') away. When activated the wireless transmitter will transmit readings continuously at pre-set time interval that was programmed by the user during the initial setup. Each unit measures and transmits relative humidity reading, ambient temperature, RF signal strength and battery condition to the receiver and is displayed on your PC screen in real time using the provided software. When used with host receiver UWTC-REC1, data from up to 48 wireless transmitters can be received and displayed. Each compatible receiver includes free software that converts your PC into a strip chart recorder or data logger so readings can be saved and later printed or exported to a spread sheet file. When used with host transceiver UWTC-REC2, wireless data from one unit can be re-transmitted out of the receiver by a wired connection as an analog voltage or current signal to interface with a controller, PLC or data acquisition board.

Specifications

Temperature Range: -17 to 49°C
(2 to 120°F)

Input Connection: M12 connector

Resolution: 1% RH, 0.1°C (0.1°F)

Relative Humidity Range: 2 to 98% RH

Accuracy: ±2.5% RH from
20 to 80% RH; ±3.5% RH below
20 and above 80% RH @ 25°C (76°F)

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

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)

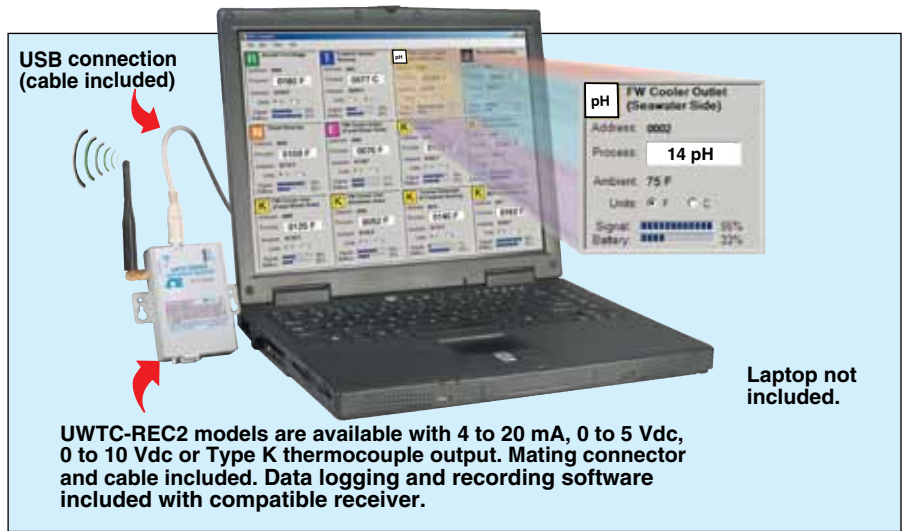
Battery Life (Typical): 3 year at
1 sample/minute reading rate @
25°C (77°F)

Data Transmitted to Host: Relative
humidity, ambient temperature, RF
transmit strength and battery condition

Enclosure: NEMA 4X (IP65)
polycarbonate

Dimensions:

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



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. Data logging and recording software included with compatible receiver.



UWRH-2A-NEMA-M12-CABLE, includes zTHP-P probe with cable, shown smaller than actual size.

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

To Order

Model No.	Description
UWRH-2A-NEMA-M12	Wireless RH/temperature transmitter with NEMA enclosure
UWRH-2A-NEMA-M12-CABLE	Wireless RH/temperature transmitter with NEMA enclosure, cable probe

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
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 operator's manual, probe, antenna, and one 3.6V lithium "C" cell battery.

* 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: **UWRH-2A-NEMA-M12**, wireless RH/temperature transmitter and **UWTC-REC1**, 48-channel receiver.

UWRH-2A-NEMA-M12-CABLE, wireless RH/temperature transmitter and **UWTC-REC2-D-MA**, 48-channel receiver with analog output and display.

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