

Wireless Relative Humidity/ Temperature Transmitter

UWRH-2-NEMA



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Features and
Specifications Visit
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UWRH-2-NEMA wireless
relative humidity
temperature transmitter,
shown smaller than
actual size.

- ✓ **NEMA 4X (IP65) Weather Resistant Enclosure**
- ✓ **Measures Both Relative Humidity and Temperature in One Unit**
- ✓ **Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger**
- ✓ **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 new Wireless Relative Humidity transmitter features a stand-alone, compact, battery powered NEMA design that transmits measurements back to a host receiver up to 90 m (300') 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 model UWTC-REC1 data from up to 96 wireless transmitters can be received and displayed. Each unit 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 model UWTC-REC2

wireless data from one unit can be re-transmitted out of the receiver by a wired connection as a 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)

Accuracy: ±1°C (±1.8°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)

Computer Interface: USB (one interface cable included with receiver)

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:

Up to 90 m (300'): Outdoor line of sight

Up to 45 m (130'): Indoor/urban

RF Data Packet Standard:

IEEE 802.15.4, open communication architecture

Software (Included Free): Requires Windows® 2000 or higher operating system

Battery: One 3.6V lithium, (C) (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: 80 L x 82 W x 50 mm H
(3.15 x 3.22 x 1.97")



To Order Visit omega.com/uwrh-2-nema for Pricing and Details

Model No.	Description
UWRH-2-NEMA	Wireless RH/temperature transmitter
UWTC-BATT-C	Replacement 3.6V lithium "C" battery assembly
UWTC-CABLE	Spare programming cable

Comes complete with one 3.6V lithium battery, programming software, measurement and logging software and operator's manual.

Ordering Example: UWRH-2-NEMA, wireless RH/temperature transmitter, UWTC-REC1, 96-channel receiver and UWTC-BATT-C, spare battery.
Visit omega.com/wireless for more information on UWTC-REC1.