

# Wireless Relative Humidity/ Temperature Transmitter

UWRH-2-NEMA



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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](http://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](http://omega.com/wireless) for more information on UWTC-REC1.