

Wireless Process Transmitter

For Sensors with Voltage or Current Output

UWPC-2-NEMA



User Selectable
Input Ranges

Weather
Proof/Wall
Mounted

- ✓ Convert Process Signal to Wireless—Up to 120 m (400')
- ✓ Accepts 0 to 1V, 0 to 5V, 0 to 10V and 4 to 20 mA Signals
- ✓ Industrial NEMA 4X (IP65) Enclosure
- ✓ Free Software for Monitoring, Recording, and Data Logging Included
- ✓ Low Power Operation/ Sleep Mode for Long Battery Life
- ✓ UWTC Receivers Work with Up to 48 Wireless Transmitters

Part of a Complete Wireless System:

- Temperature
- Humidity
- Infrared Temperature
- Pressure
- pH

The UWPC wireless process transmitter converts standard process signals (0 to 1V, 0 to 5V, 0 to 10V and 4 to 20 mA) into a wireless signal that can be transmitted up to 120 m (400'), eliminating the need for wiring runs in a variety of environments. The UWPC transmits data at preset intervals, selectable from 2 to 120 seconds. Transmitted data includes the sensor reading, along with RF signal strength and battery status.

The UWPC is compatible with the UWTC-REC family of wireless receivers, which can accept signals from up to 48 wireless transmitters, and display them on a PC. Each unit includes free software that converts your PC into a monitor, chart recorder or data logger. Readings can be saved and later printed or exported to a spreadsheet file.



UWPC-2-NEMA shown slightly smaller than actual size.

PSU-93 shown smaller than actual size.

Add Wireless Capability to Your Existing Monitoring Equipment. Just Add Model UWPC-2-NEMA In-Line with Any Two-Wire 4 to 20 mA Loop System!



Typical 2-Wire 4 to 20 mA Loop System with Wireless Upgrade

SPECIFICATIONS

Input Range: 0 to 1 Vdc, 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA

Accuracy: $\pm 0.04\%$ of range

Input Connection: Panel connector (mating connector supplied)

Computer Interface:

USB, for initial transmitter/sensor setup and configuration

Transmit Sample Rate: Programmable from 1 sample/2 sec to 1 sample/120 sec

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 3.0V, lithium "C" cell (included)

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

Enclosure: NEMA 4 (IP65), polycarbonate

Enclosure Dimensions:
80 L x 82 mm W (3.15 x 3.23")

Weight: 272 g (9.6 oz)

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

Model No.	Description
UWPC-2-NEMA	Wireless process input transmitter

Accessories

Model No.	Description
UWTC-CABLE	Spare USB programming/communication cable
UWTC-BATT-C	Replacement 3.0V, lithium "C" cell battery assembly

Note: Because of transmission frequency regulations, these products may only be used in the United States, Canada and Europe (please note CE compliance of the specific model for use in Europe).

Comes complete with measurement/data logging software, lithium 3.0V "C" cell battery, USB cable, and operator's manual.

Ordering Example: UWPC-2-NEMA, wireless process input transmitter and UWTC-REC1, USB powered 48-channel transmitter receiver.

Connect a Wireless Receiver to Your Computer, PLC, or Data Logger to Form a Complete Wireless System!

Monitor Up to 48 Different Wireless RTD Transmitters with One Receiver!

USB connection (cable included)

UWTC-REC2-V1, shown smaller than actual size. UWTC-REC2 models available with 4 to 20 mA, 0 to 5 Vdc or 0 to 10 Vdc analog output. Mating connector and cable included.

Data Logging and Recording Software Included

Receivers Available at omega.com

Laptop not included.

omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

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