

# WIRELESS TRANSMITTERS AND RECEIVERS



## Wireless Process Transmitter for Sensors with Voltage or Current Output

UWPC-2-NEMA

£178



- ✓ 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 new 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 **wireless** transmitter is housed in an IP65 (NEMA 4X) enclosure, providing water and dust protection. 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. Receivers are available with optional display and analog output. An analogue output can be used to interface with a process controller, PLC or data acquisition device. The UWTC-REC3 eliminates the need for a dedicated PC, connecting directly to an Ethernet port for direct internet connection.

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, £178, shown slightly smaller than actual size.

Convert Your Pressure Transducer to a Wireless Pressure Sensor!

PXM209-010G5V, £115, shown smaller than actual size.

PSU-24V-Universal £24, 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!



DP24-E, \$195.

UWPC-2-NEMA, £178.

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

PXM209-010GI, £115.



# WIRELESS TRANSMITTERS AND RECEIVERS

## Specifications

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

**Accuracy:** ±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

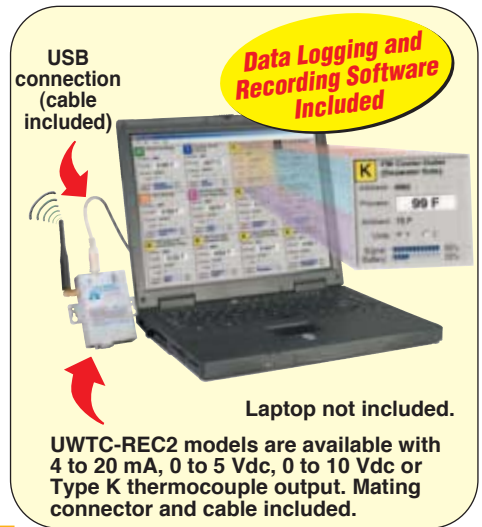
**Power:** One 3.6V, lithium "C" cell (included)

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

**Enclosure:** NEMA 4 (IP65), polycarbonate

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

**Weight:** 272 g (9.6 oz)



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



UWTC-REC1, £151.

UWTC-REC1 will receive data from up to 48 transmitters and is powered directly by the USB connection on your computer.



UWXL-REC2-D receiver, £178.

UWTC-REC2-D will receive data from up to 48 transmitters. This model provides a displayed reading and a retransmitted, hard wired analogue output for 1 user selected transmitter in your system.

All models shown smaller than actual size.



UWTC-REC4 receiver, £185.

UWTC-REC4 will receive data from up to 48 transmitters, and provides a scalable retransmitted, hard wired analogue output for 4 user selected transmitters in your system.

**AVAILABLE FOR FAST DELIVERY!**

### To Order (Specify Model Number)

Model No.	Price	Description
UWPC-2-NEMA	£178	Wireless process input transmitter

### Receivers and Accessories

Model No.	Price	Description
UWTC-REC1	£151	USB-powered 48-channel transmitter receiver
UWTC-REC2-(*)	157	48-channel receiver with analog output
UWTC-REC2-D-(*)	178	48-channel receiver with analog output and display
UWTC-REC3	157	32-channel receiver/host with ethernet
UWTC-REC4-(*)	185	48-channel DIN rail receiver with 4 analog outputs and alarms
UWTC-CABLE	3.40	Spare USB programming/communication cable
UWTC-BATT-C	16.75	Replacement 3.6V, lithium "C" cell battery assembly

**Note:** Because of transmission frequency regulations, these products may only be used in the United States, Canada and Europe

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

\*Specify analogue output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "MA" for 4 to 20 mA signal, or "TC" for Type K thermocouple.

**Ordering Example:** UWPC-2-NEMA, wireless process input transmitter and UWTC-REC1, USB powered 48-channel transmitter receiver, £178 + 151 = £329.

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters