

Long Range **Wireless Repeater/Receiver** System For UW Series Transmitters



UWTC-1 wireless thermocouple connector

PATENT PENDING

**Standard Range
Wireless up to
120 m (400')**

UWTC-RPT1



- ✓ **Receive Data from Up to 48 Wireless Sensors and Re-transmits the Data to a USB Based Receiver Up to 5 Miles (8 km) Away**
- ✓ **Compatible with All OMEGA UW Series Wireless Connectors, Transmitters and Probe Assemblies**
- ✓ **Available in 915 MHz for USA/Canada or 868 MHz for Europe**
- ✓ **Field Programmable via USB Connection and Included Software Utility**
- ✓ **Available in Rugged, Splashproof, NEMA (IP65) Housing**

OMEGA's long range wireless repeater system extends the transmitting range of OMEGA's wireless connectors, probes and industrial transmitters up to 5 miles. The UWTC-RPT1 collects transmitted data from OMEGA UW series transmitters and instantaneously re-transmits the data to your USB base receiver. Distances of up to 5 miles line-of-sight are possible with proper installation of the repeater and high gain antennas. This system provides a low cost, ideal solution for when data from many process sensors need to be recorded far from the actual sensing location.

Specifications

Power: 5 to 12 Vdc @ 500 mA (AC wall adaptor included)
Ambient Operating Conditions: 0 to 55°C (32 to 131°F), 90% RH non-condensing



UWTC-REC1-915 wireless USB based receiver (915 MHz for USA/Canada)

**Long Range
Wireless up to
8 km (5 mi)**

UWTC-RPT1-915 wireless long range receiver/repeater (915 MHz for USA/Canada)

Wireless Communication

Receiving Frequency: 2.4 GHz
Transmitting Frequency: 915 MHz (USA/Canada) 868 MHz (Europe)
RF Transmit Power: 100 mW (+20 dBm)
Indoor/Urban Range: Up to 305 m (1000')
Outdoor/RF Line-of-Sight Range:
Standard: Up to 1.8 miles (3 km)
One High Gain Antenna: Up to 3 miles (4.8 km)
Two High Gain Antennas: Up to 5 miles (8 km)
Setup and Configuration: USB (cable included) for Windows®

Enclosure

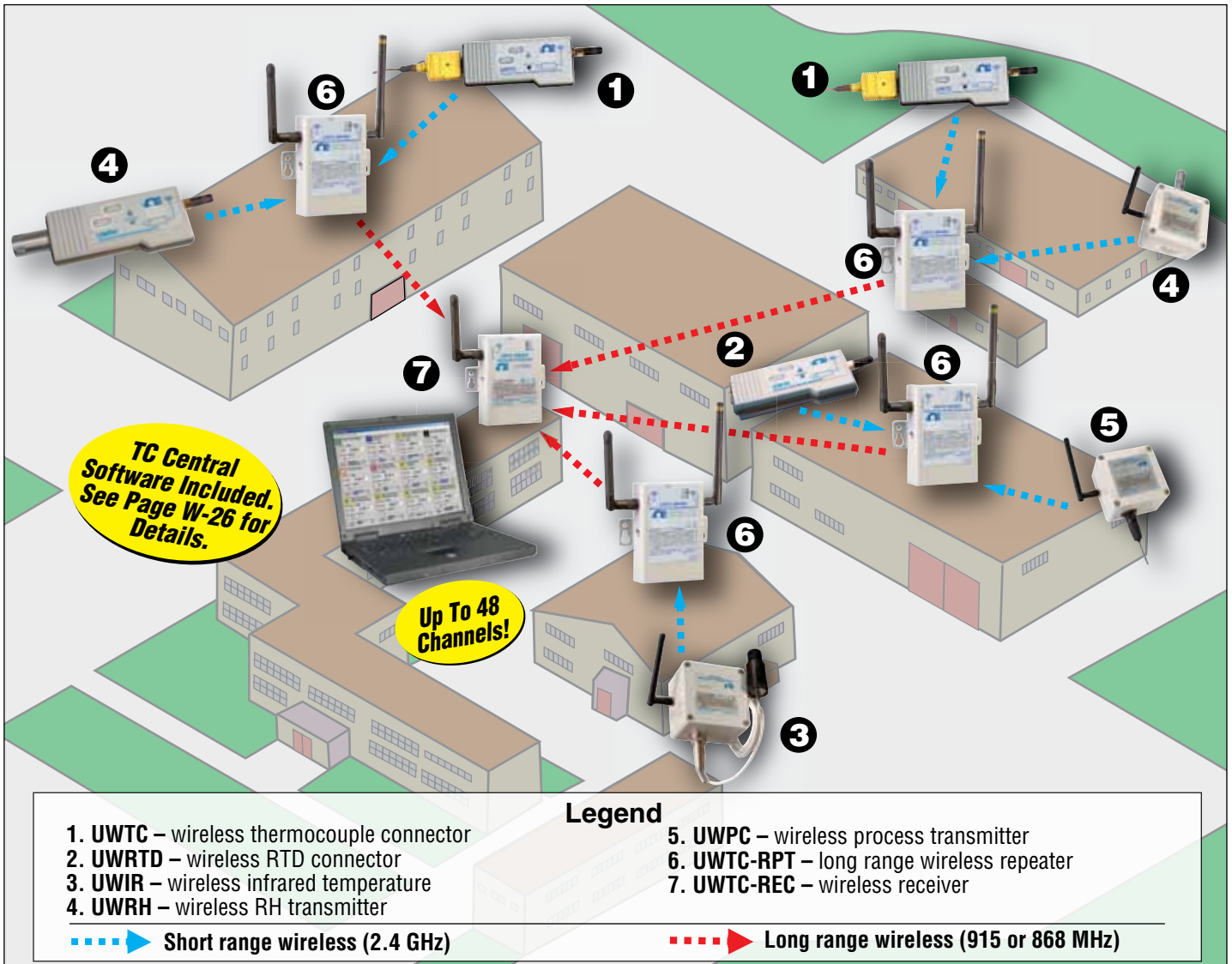
Standard Model: Painted steel
NEMA Model: ABS base, polycarbonate lid

Dimensions

Standard Model: 92 H x 62 W x 22 mm D (3.6 x 2.43 x 0.85")
NEMA Model: 160 H x 90 W x 60 mm D (6.3 x 3.54 x 2.36")

Approvals: FCC, IC, CE

Consolidate All Your **Wireless** Signals Into a Single Convenient Location, Up to 5 Miles Away with the UWTC-RPT1 Wireless Repeater System



To Order

Model No.	Description
UWTC-RPT1-(*)	48-device wireless receiver/repeater†
UWTC-RPT1-(*)-NEMA	48-device wireless receiver/repeater, NEMA enclosure†
UWTC-REC1-(*)	48-device wireless USB receiver
UWTC-REC1-(*)-NEMA	48-device wireless USB receiver, NEMA enclosure
UWTC-RPT-ANT-900	UWTC-RPT1 high gain antenna mounting kit (for longer range)
UWTC-RPT-CABLE-25	25' extension cable for high gain antenna mounting kit

Note: The UWTC-RPT-ANT-900 high gain antenna kit includes one high gain antenna, adapter, and 10' cable to be installed on the receiver. To extend the range further, you may purchase a second kit and install it on the repeater.

* Specify RF "915" for 915 MHz (USA/Canada) or "868" for 868 MHz (Europe) † additional cost for "868" models

Each receiver comes complete with a USB cable, PC based software and operator's manual.

Each repeater comes complete with a USB programming cable, AC wall adaptor and operator's manual.

USA/Canada Ordering Example: UWTC-RPT1-915, 48-device wireless repeater (USA/Canada), and UWTC-REC1-915, 48-device wireless receiver (USA/Canada).

Europe Ordering Example: UWTC-RPT1-868, 48-device wireless repeater (Europe), and UWTC-REC7-868, 48-device wireless receiver (Europe).