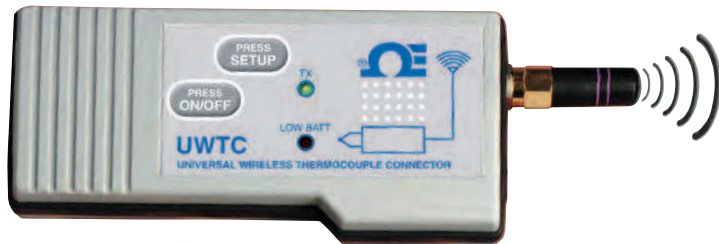


# Long Range **Wireless** **Repeater/Receiver** System

## For UW Series Transmitters



UWTC-1 wireless thermocouple connector, \$125. See page W-7

**PATENT PENDING**

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

UWTC-RPT1  
Starts at  
**\$325**



UWTC-REC1-915,  
\$245, wireless  
USB based  
receiver

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

UWTC-RPT1-915, \$325,  
wireless long range  
receiver/repeater

- ✓ **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

### 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:**

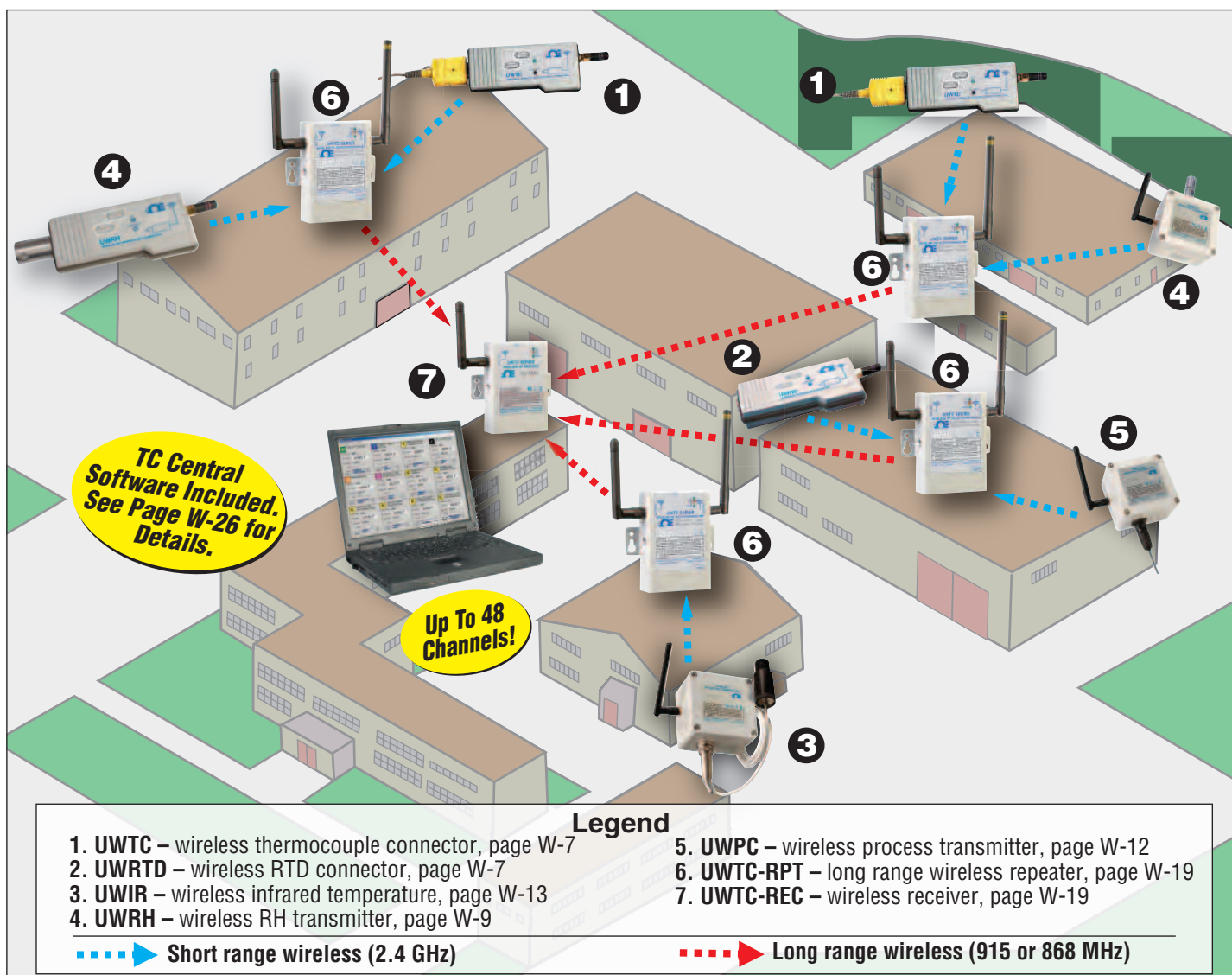
92 H x 62 W x 22 mm D (3.6 x 2.43 x 0.85")

**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



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

Model No.	Price	Description
UWTC-RPT1-(*)	\$325	48-device wireless receiver/repeater†
UWTC-RPT1-(*)-NEMA	425	48-device wireless receiver/repeater, NEMA enclosure†
UWTC-REC1-(*)	245	48-device wireless USB receiver
UWTC-REC1-(*)-NEMA	345	48-device wireless USB receiver, NEMA enclosure
UWTC-RPT-ANT-900	345	UWTC-RPT1 high gain antenna mounting kit (for longer range)
UWTC-RPT-CABLE-25	75	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) † add \$70 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) \$325, and UWTC-REC1-915, 48-device wireless receiver (USA/Canada) \$245, \$325 + 245 = \$570.

**Europe Ordering Example:** UWTC-RPT1-868, 48-device wireless repeater (Europe) \$395, and UWTC-REC7-868, 48-device wireless receiver (Europe) \$245, \$395 + 245 = \$640.