

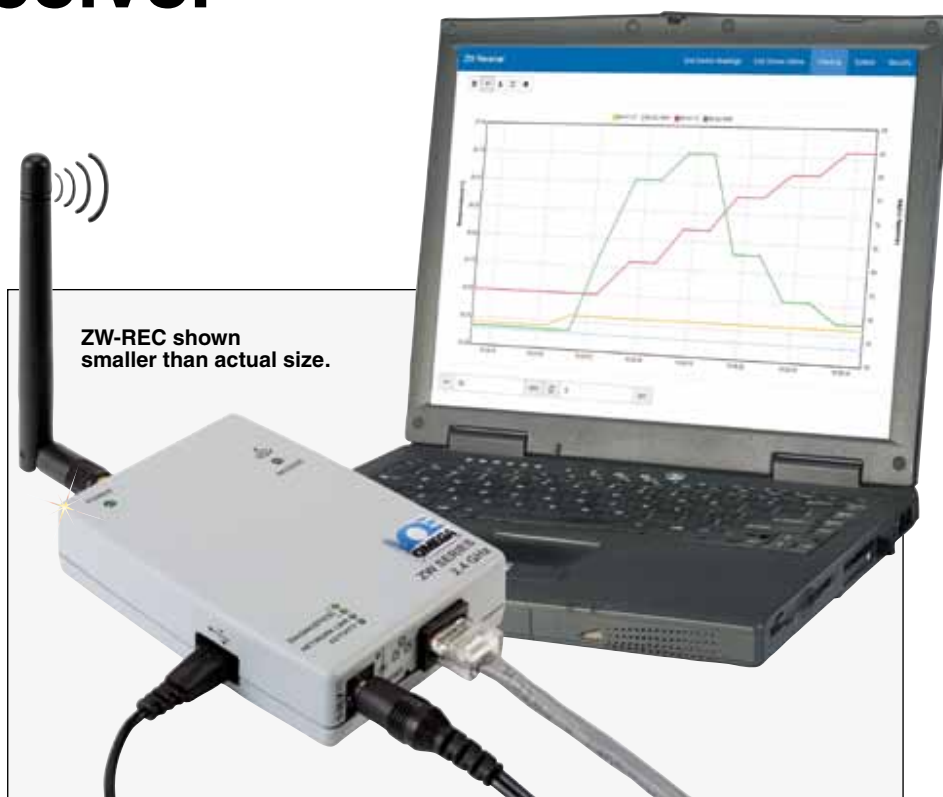
Long Range Wireless Receiver



ZW-REC



- ✓ Built-In Web Server with SSL Encryption
- ✓ 1000 m* (3280') Range
- ✓ No Special Software Required
- ✓ Supports Up to 128 End Devices
- ✓ Compatible with HTML5 and Mobile
- ✓ Support for OMEGA® Dashboard
- ✓ Compatible with a Wide Range of Remote Transmitters**



The ZW-REC offers expanded functionality over previous wireless receivers. The ZW-REC can connect to up to 128† sensors at once. The built-in web server supports encryption to protect your sensitive data. Email alarms can be sent using OMEGA Dashboard.

The ZW-REC can also wirelessly update firmware for compatible sensors.

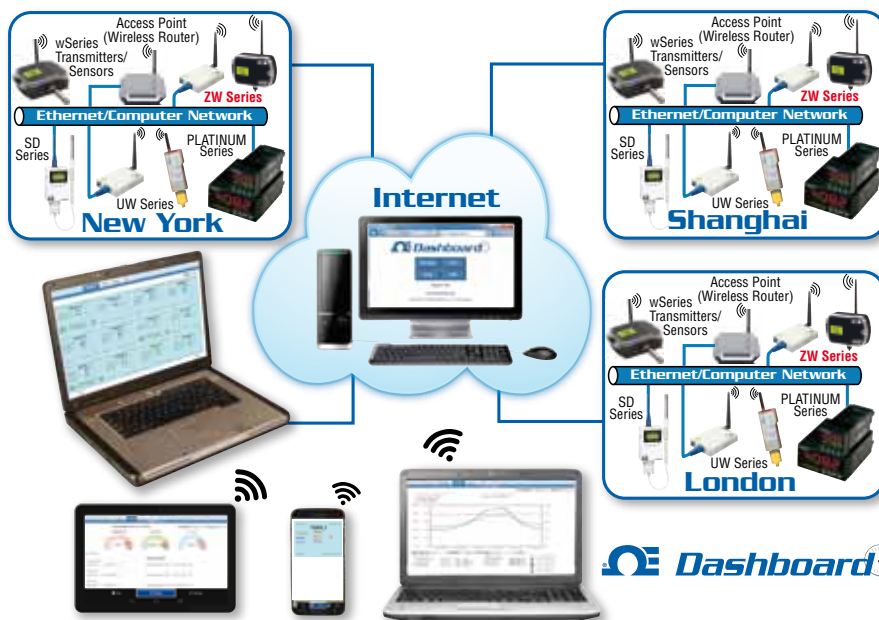
* Without obstructions or interferences.

** Compatible with UW Series transmitter. Does not include “-PH” and “-PC” models.

† Requires sensors that support IDs 32 to 128.

The new, high-performance, long range, OMEGA® ZW-REC wireless receiver provides web-based monitoring of OMEGA's IEEE 802.15.4, 2.4 GHz compatible wireless transmitters.

The ZW-REC is designed to communicate up to 1000 m* (3280') to various wireless sensors/transmitters including the new ZW-ED, ZED-P, and UW Series transmitters. The ZW-REC connects directly to an ethernet network to serve active web pages and display the data. You can monitor and record thermocouple, RTD, infrared, ambient temperature, related humidity and barometric pressure over an ethernet network or the internet without any special software—just your web browser. OMEGA offers a variety of wireless sensors and transmitters supporting a wide range of application requirements.



Specifications

WIRELESS COMMUNICATION

Standard: IEEE 802.15.4, DSSS

Frequency: 2.4 GHz (2400 to 2483.5 MHz), 16 channels

Network Topology: Star topology

Transmit Power: 9.5dBm

Receiver Sensitivity: -96dBm

Range: Up to 1000 m (3280')
(Without obstructions or interference)

PORTS AND FEATURES

Ethernet: RJ45, 10/100 Base-T

USB: Micro-USB 2.0 Type B

LEDs: Power; diagnostics;
network/link/activity

Encryption: Up to 2048 bit

Users: Client and Administrator

IP Address: Static or DHCP

COMPATIBLE WIRELESS TRANSMITTERS

ZW Series: Up to 128 end devices

zSeries: Up to 32 end devices

UW Series: Up to 127 end devices

POWER

Input Voltage: 5 to 30 Vdc

Input Power: 0.8 W maximum

Safety Qualified AC Power Adaptor (Included):

Nominal Output: 9 Vdc @ 0.5 A

Input: 100 to 240 Vdc, 50/60 Hz

Operating Temperature: 0 to 40°C
(32 to 104°F)

ENVIRONMENTAL

0 to 70°C (32 to 158°F), 90% RH
non-condensing

GENERAL

Agency Approval: ECCN 5A992,
EMC 2014/30/EU, LVD 2014/35/EU,
RED 2014/53/EU

Software: Compatible with the
OMEGA® Dashboard



To Order	
Model No.	Description
Wireless Coordinator (Receiver)	
ZW-REC	Long range wireless receiver
Wireless End Devices (Transmitters)	
ZW-ED	Long range wireless transmitter
zED-TP2-LCD-H2	Compact and long range wireless transmitter (zSeries)
zED-TC-LCD-H2	Dual thermocouple input, AC powered, LCD display
UWTC-2-NEMA	Weather resistant thermocouple-to-wireless transmitter
UWRTD-2-NEMA	Weather resistant RTD-to-wireless transmitter

A complete list of OMEGA wireless end devices are available online.