

# Long Range Wireless Transmitters

## Ethernet or Internet Connection

ZW-ED



ZW-ED shown smaller than actual size.

- ✓ 1000 m\* (3280') Range
- ✓ NEMA 4 (IP65) Enclosure
- ✓ Battery Backed Real Time Clock
- ✓ Data Assurance
- ✓ Up to 128 End Devices per Receiver
- ✓ Up to 7-Year Battery Life



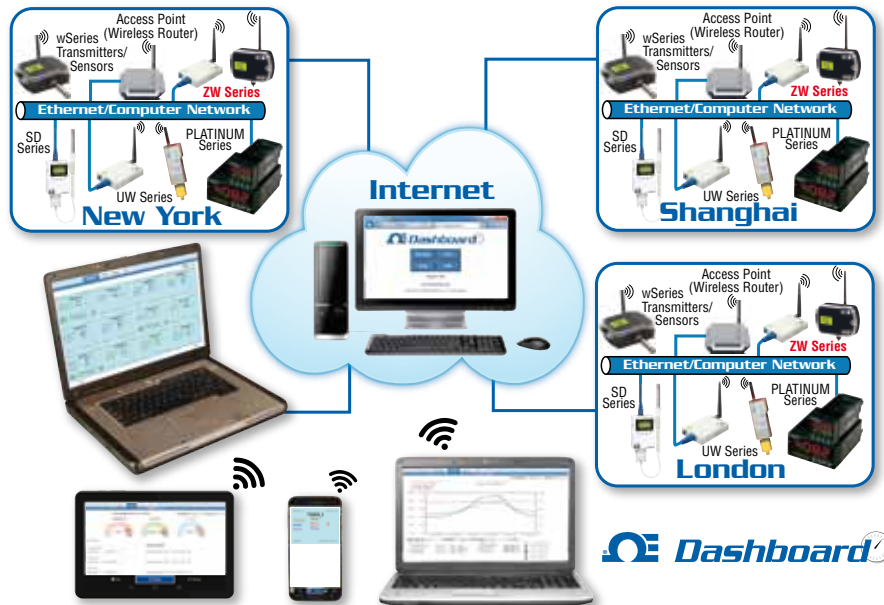
### Digital Probe Inputs Available:

- ✓ Temperature
- ✓ Barometric Pressure
- ✓ Humidity

The rugged high-performance, long range OMEGA® ZW-ED wireless sensor/transmitter system provides web-based monitoring of temperature, humidity, and barometric pressure.

The radio is an IEEE 802.15.4 compliant transmitter operating at 2.4 GHz designed to transmit up to 1000 m\* (3280') to a ZW-REC coordinator. The ZW-REC connects directly to an ethernet network to serve active web pages and display the data. You can monitor and record temperature, relative humidity, and barometric pressure over an ethernet network or the internet without any special software—just your web browser. These wireless devices are designed for demanding industrial applications indoors and harsh outdoor environments. The electronics are protected in a rugged weatherproof polycarbonate NEMA 4 (IP65) rated housing. A variety of compatible probes are available to suit your application.

\* Without obstructions or interferences



## 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:** 9.5 dBm

**Receiver Sensitivity:** -96 dBm

**Range:** Up to 1000 m\* (3280')

\*Without obstructions or interference

### POWER

**Input Voltage:** 5 to 36 Vdc, 24 Vac ±10%

**Input Power:** 0.8 W maximum

**Safety Qualified AC Power Adaptor (Optional):**

**Nominal Output:** 5 Vdc @ 0.6 A

**Input:** 100 to 240 Vdc, 50/60 Hz

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

**Alkaline Battery:** Two C-cell 1.5 Vdc (included)

**Lifetime:** Estimate of 7 years with frequency of 1 reading per minute

**Lithium Back-Up\*\* Battery:** CR2032 (included)

\*\* RTC back-up only.

### ENVIRONMENTAL

**Operating Conditions:**

**Base Unit:** -20 to 70°C (-4 to 158°F), 90% RH non-condensing

**CR2032 Battery:** -20 to 60°C (-4 to 140°F), 90% RH non-condensing

**Alkaline Battery:** -18 to 55°C (-0.4 to 131°F), 90% RH non-condensing



ZW-ED shown smaller than actual size.

### PACKAGING

**Enclosure Material:** Polycarbonate

**Enclosure Protection:** NEMA 4 (IP65)

**Enclosure Dimensions:** 135.9 L x 82 W x 39 mm D (5.35 x 3.23 x 1.56")

### 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
<b>Wireless End Device (Transmitter)</b>	
ZW-ED	Long range wireless end device for use with probes
ZW-ED-LCD	Long range wireless end device for use with probes, LCD display (coming soon)
<b>Accessories</b>	
DM12CAB-8-1-RA	1 m (3.3') dual M12-8 connector, right angle terminator
DM12CAB-8-3-RA	3 m (9.8') dual M12-8 connector, right angle terminator
DM12CAB-8-5-RA	5 m (16.4') dual M12-8 connector, right angle terminator
UNIV-AC-100/240-5-M8	Universal AC adaptor with M8 connector
<b>Wireless Coordinator (Receiver)</b>	
ZW-REC	Long range wireless receiver

### Compatible M12 Digital Probes

Model No.	Description
zTP1-P	Stick probe temperature probe
zTP2-P	Lug mount probe temperature probe
zTHP-P	Industrial temperature and humidity probe
zTHP2-P	Compact industrial temperature and humidity probe
zBTP-P	Industrial temperature and barometric pressure probe
zBTHP-P	Industrial temperature, humidity and barometric pressure probe

Comes complete with 2 C-cell batteries and CR2032 battery.

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