

Long Range Wireless Transmitters

Ethernet or Internet Connection



ZW-ED



- ✓ 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



ZW-ED shown smaller than actual size.

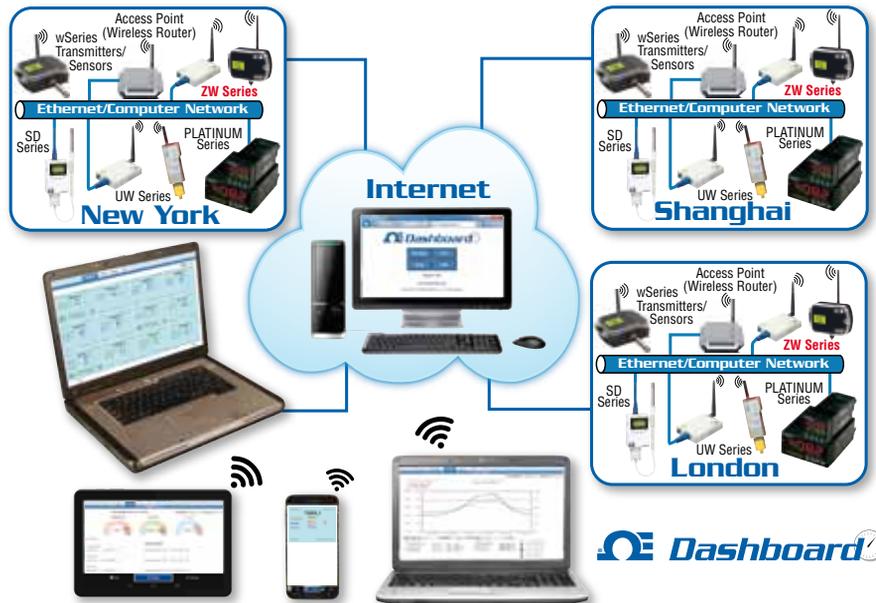
Digital Probe Inputs Available:

- ✓ 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





ZW-ED shown smaller than actual size.

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

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
Wireless End Device (Transmitter)	
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
Accessories	
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
Wireless Coordinator (Receiver)	
ZW-REC	Long range wireless receiver

*LCD displays temperature in °C, Pressure in mbar and Relative Humidity in % where applicable.

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.