



Long Range Wireless Transmitters

Ethernet or Internet Connection

ZW-ED



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

The rugged high-performance, long range and low power consumption NEWPORT® 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.

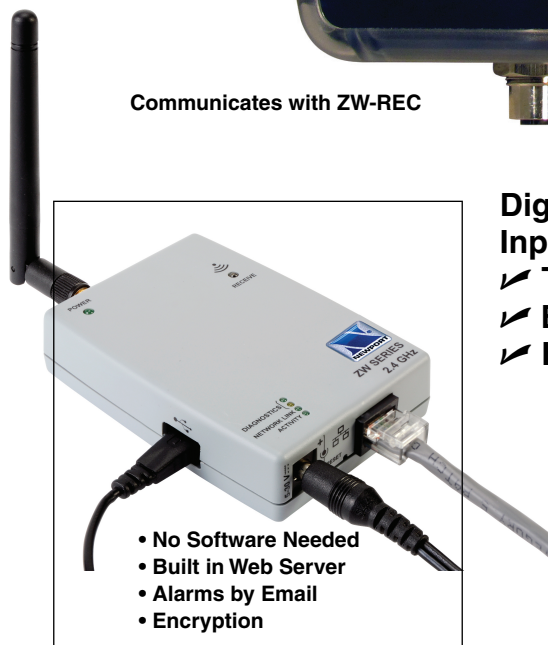
These wireless devices are designed for demanding industrial applications indoors and harsh outdoor environments. The electronics are protected in a rugged weatherproof polycarbonate NEMA 4 (IP65) rated housing. A variety of compatible probes are available to suit your application.

* Without obstructions or interferences



Communicates with ZW-REC

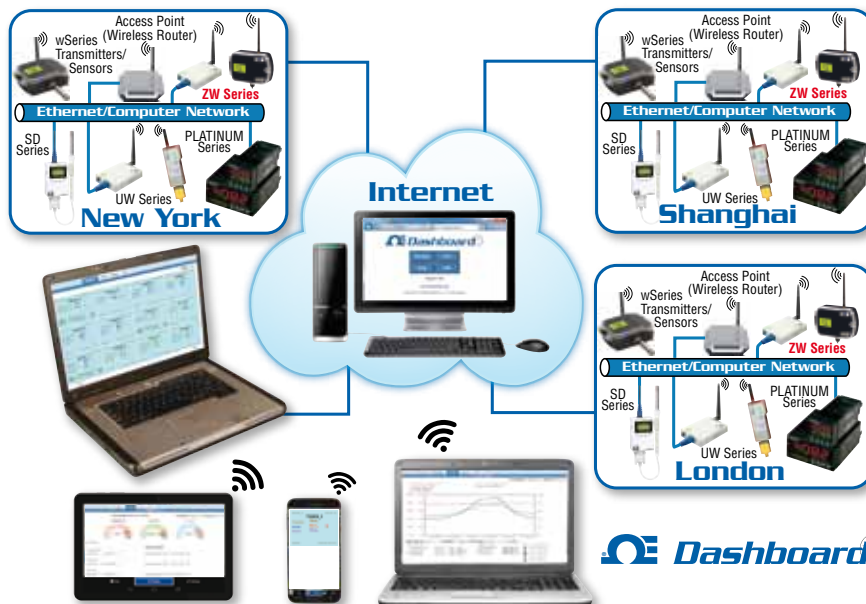
ZW-ED shown smaller than actual size.



- No Software Needed
- Built in Web Server
- Alarms by Email
- Encryption

Digital Probe Inputs Available:

- ✓ Temperature
- ✓ Barometric Pressure
- ✓ Humidity



Dashboard



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 2 years with frequency of 1 reading per 2 minutes

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
Wireless End Device (Transmitter)	
ZW-ED	Wireless end device for use with probes
ZW-ED-LCD	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	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, Europe, and China.