



HOBO® ZW-007 Data Logger

Temperature/Relative Humidity/2 External Channels Data Node

The HOBO® ZW-007 is an easy-to-deploy, 4-channel wireless data node. It includes an external 2m temperature/relative humidity sensor probe, and features two additional analog ports. It wirelessly transmits data in real time, reducing the costs and inconvenience associated with manual data offload.

Supported Measurements:

4-20mA, AC Current, AC Voltage, Air Velocity, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Differential Pressure, Gauge Pressure, Kilowatts (kW), Relative Humidity, Temperature and Volatile Organic Comp.

Key Advantages:

- Wirelessly transmits real-time data
- Compact size for easy deployment wherever data is needed
- Accepts a wide range of external energy and environmental sensors
- Notifies you of alarm conditions via email or text messages
- Onboard buffer memory helps prevent data loss
- Powerful HOBOWare® Pro software for organizing and viewing data (included with HOBO data receiver)

A complete system requires at least one wireless HOBO data node, HOBO data receiver (ZW-RCVR), and HOBOWare Pro software (included with ZW-RCVR). Depending on your system deployment, a HOBO data router (ZW-ROUTER) may be required.



HOBO ZW-007 Data Logger Specifications

Buffer memory: approx. 3k measurements

Sample rate: 1 min to 18 hrs

Transmission rate: 2 min and greater

Power options: AC power adapter, battery backup

Measurement Range

Temp: -40° to 70° C (-40° to 158° F)

RH: 0% to 100% RH

Analog channels: 0 to 2.5 Vdc; 0 to 5 Vdc (w/CABLE-ADAP5); 0 to 10 Vdc (w/ CABLE-ADAP10); 4-20 mA (w/CABLE-4-20mA)

Accuracy

Temp: $\pm 0.21^\circ\text{C}$ over 0°C to 50°C ($\pm 0.38^\circ\text{F}$ over 32° to 122°F)

RH: $\pm 2.5\%$ from 10%RH to 90%RH typical to a maximum of $\pm 3.5\%$ including hysteresis at 25°C (77°F); below 10%RH and above 90%RH $\pm 5\%$ typical.

Analog: $\pm 1.544\text{ mV}$ plus 2 % (typical)

Operating range: Temp: -20 to 50°C (-4 to 122°F) when battery powered, -20 to 70°C (-4 to 158°F) when line powered.

Stability (drift)

Temperature: $< 0.1^\circ\text{C}$ (0.18°F) per year

RH: $< 1\%$ per year typical; hysteresis 1%

Resolution

Temp: 0.02°C @ 25°C (0.04°F @ 77°F)

RH: 0.05%

Analog channel: 0.6 mV

Response Time

Temp: 5 min. in air moving 1m/sec (3.3 ft./sec)

RH: 10 min. in air moving 1 m/sec (3.3ft/sec)

Probe size: 1 cm (.32 in) diameter; 1.8m (6 ft) cable

Range: Approx. 100m (300ft.) depending on obstructions or interference

Weight: 138g (4.87 oz) with batteries

Dimensions: 96.5 x 108 x 28mm (3.8 x 4.25x 1.1 in)

Radio power: 1.6 mW (2 dBm)

Wireless data standard: IEEE802.15.4 2.4 GHz band

CE - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- ▶ Email sales@onsetcomp.com
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-800-564-4377
- ▶ Fax 1-508-759-9100

Technical Support (8am to 8pm ET, Monday through Friday)

- ▶ Contact Product Support www.onsetcomp.com/support/contact
- ▶ Call 1-508-759-9500
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