



HOBO® ZW-005 Data Logger

Four-Channel Data Node

The HOBO® ZW-005 is an easy-to-deploy, 4-channel wireless temperature/relative humidity data node. It includes an external 2m temperature/relative humidity sensor probe, and features one analog port, and one pulse input port. 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, Amp Hour (Ah), Amps (A), Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Differential Pressure, Gauge Pressure, Kilowatt Hours (kWh), Kilowatts (kW), Power Factor (PF), Pulse Input, Relative Humidity, Temperature, Volatile Organic Comp., Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Water Flow, Watt Hours (Wh) and Watts (W)

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-005 Data Logger Specifications

Buffer memory: 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)

Pulse channel: (w/CABLE-2.5-STEREO) 0 to 65,535 pulses per logging interval

Accuracy

Temperature: $\pm 0.21^{\circ}\text{C}$ from 0 to 50°C ($\pm 0.38^{\circ}\text{F}$ from 32° to 122°F); see Plot A

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 channel: $\pm 1.544\text{ mV}$ plus 2% of reading 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.

RH: 5%-95% non-condensing

Resolution

Temp: 0.02°C @ 25°C (0.04°F @ 77°F)

RH: 0.05% Analog channel: 0.6 mV

Pulse channel: 1 pulse

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)

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

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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