

ZW-005

## HOBOb Four-Channel Data Node

### 1 Temp, 1 RH, 1 Analog and 1 Pulse

Discontinued

The HOBOb<sup>®</sup> ZW-005 is an easy-to-deploy, 4-channel wireless temperature/RH data node. It includes an external 2m temperature/relative humidity sensor probe, and features one analog port, and one pulse input port. The HOBOb<sup>®</sup> ZW-005 is an easy-to-deploy, 4-channel wireless temperature/relative humidity data node

#### Important Information

HOBOb data loggers require HOBObware software and a USB cable. (Note: A USB cable is included w/HOBObware Pro CD or USB software purchase). See compatible items below.



Compatible with  
**HOBObware<sup>®</sup> Software**



## Supported Measurements

4-20mA, AC Current, AC Voltage, Air Velocity, Amp Hour (Ah), Amps (A), Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Dew Point, Differential Pressure, Gauge Pressure, Kilowatt Hours (kWh), Kilowatts (kW), Power Factor (PF), Pulse Input, Relative Humidity, Temperature, Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Water Flow, Watt Hours (Wh), Watts (W)

## Features

- 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 HOBObware<sup>®</sup> Pro software for organizing and viewing data (included with HOBOb data receiver)

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

## What's in the box

### Contact Us

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

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

## HOBO Four-Channel Data Node (ZW-005) 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  $50^{\circ}\text{C}$  ( $\pm 0.38^{\circ}\text{F}$  from  $32^{\circ}$  to  $122^{\circ}\text{F}$ ); see Plot A

**RH:**  $\pm 2.5\%$  from 10%RH to 90%RH typical to a maximum of  $\pm 3.5\%$  including hysteresis at  $25^{\circ}\text{C}$  ( $77^{\circ}\text{F}$ ); below 10%RH and above 90%RH  $\pm 5\%$  typical

**Analog channel:**  $\pm 1.544$  mV plus 2% of reading typical

### Operating Range

**Temp:** -20 to  $50^{\circ}\text{C}$  (-4 to  $122^{\circ}\text{F}$ ) when battery powered, -20 to  $70^{\circ}\text{C}$  (-4 to  $158^{\circ}\text{F}$ ) when line powered.

**RH:** 5%-95% non-condensing

### Resolution

**Temp:**  $0.02^{\circ}\text{C}$  @  $25^{\circ}\text{C}$  ( $0.04^{\circ}\text{F}$  @  $77^{\circ}\text{F}$ )

**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