



## HOBO U12 Industrial Logger U12-008

14.0 x 13.7 x 3.2 cm  
(5.50 x 5.38 x 1.25 in)

The HOBO U12 Industrial data logger is a 4-channel logger that accepts a wide range of external sensors. The rugged enclosure is designed for use in harsh outdoor environments, as well as indoor industrial applications.

### Key Advantages:

- Weatherproof enclosure (tested to NEMA 4x and IP67)
- Four channels of external input allow monitoring of multiple parameters

Memory: 43,000 measurements  
Sample rate: 1 second to 18 hours, user-selectable  
Battery life: 1-year (typical)—user-replaceable



### External Input

Input range: 0 to 2.5 volts DC  
Accuracy:  $\pm 2\text{mV} \pm 2.5\%$  of absolute reading  
Resolution (12-bit): 0.6 mV  
Output power: 2.5 volts DC at 2 mA, active only during measurements  
Maximum recommended source impedance: 2.5k ohms

## Ordering Information

### Data Loggers

|  |                 |
|--|-----------------|
| HOBO U12 Industrial Logger                     | U12-008         |
| <b>kW**</b>                                    |                 |
| 3 Phase, 450V, 100 AMP                         | T-VER-8044-100  |
| <b>Gauge Pressure**†</b>                       |                 |
| 100 psig                                       | T-ASH-G2-100    |
| 200 psig                                       | T-ASH-G2-200    |
| 500 psig                                       | T-ASH-G2-500    |
| <b>Differential Air Pressure Transducer**†</b> |                 |
| .01-10.0 WC                                    | T-VER-PXU-L     |
| .01-10.0 WC                                    | T-VER-PXU-X     |
| <b>Humidity**†</b>                             |                 |
| Duct-Mount RH/Temp                             | T-VAI-HMD-40Y   |
| <b>DC Current**†</b>                           |                 |
| 0-200 Amp                                      | T-VER-H970-200  |
| -200 to 200 Amp                                | T-VER-971BP-200 |
| <b>Air Velocity Sensor**†</b>                  |                 |
| 0.15-10 m/s                                    | T-DCI-F900-L-P  |
| 0.15-5 m/s                                     | T-DCI-F900-L-O  |
| 0.15-10 m/s                                    | T-DCI-F900-S-P  |
| 0.15-5 m/s                                     | T-DCI-F900-S-O  |
| <b>Compressed Air Flow Meter**</b>             |                 |
| 1-80 SCFM                                      | T-CDI-5200-10S  |
| 3-350 SCFM                                     | T-CDI-5400-20S  |
| <b>Volatile Organic Compound (VOC)**†</b>      |                 |
| 0-10, 0-100, 0-1000 ppm                        | T-ION-TVOC      |

### Temperature Sensors

|                                       |          |
|---------------------------------------|----------|
| Air/Water/Soil Probe 0.3m (1ft)       | TMC1-HD  |
| Air/Water/Soil Probe 1.8m (6ft)       | TMC6-HD  |
| Air/Water/Soil Probe 6.1m (20ft)      | TMC20-HD |
| Air/Water/Soil Probe 15.2m (50ft)     | TMC50-HD |
| Stainless Steel Temp Probe 1.8m (6ft) | TMC6-HC  |
| Pipe Temp 1.8m (6ft)                  | TMC6-HE  |

### Split-core AC Current Sensors

|               |       |
|---------------|-------|
| 0-20 Amps AC  | CTV-A |
| 0-50 Amps AC  | CTV-B |
| 0-100 Amps AC | CTV-C |
| 0-200 Amps AC | CTV-D |
| 0-600 Amps AC | CTV-E |

### CO<sub>2</sub>\*\*

|                                       |          |
|---------------------------------------|----------|
| Telaire CO <sub>2</sub> /Temp Monitor | TEL-7001 |
|---------------------------------------|----------|

### AC Voltage Transmitters\*\*

|                  |               |
|------------------|---------------|
| 0 - 150 Volts AC | T-CON-ACT-150 |
| 0 - 300 Volts AC | T-CON-ACT-300 |

### DC Voltage

|                  |                  |
|------------------|------------------|
| 0 - 2.5 Volts DC | CABLE-2.5-STEREO |
| 0 - 5 Volts DC   | CABLE-ADAP5      |
| 0 - 10 Volts DC  | CABLE-ADAP10     |

### Milliamps

|          |              |
|----------|--------------|
| 4 - 20mA | CABLE-4-20MA |
|----------|--------------|

### Software

|                                     |            |
|-------------------------------------|------------|
| HOBOware Pro Software (Windows/Mac) | BHW-PRO-CD |
|-------------------------------------|------------|

### Optional Communications

|                 |        |
|-----------------|--------|
| HOBO U-Shuttle* | U-DT-1 |
|-----------------|--------|

\* Requires HOBOware Pro software, see page 52 for details.  
HOBOware includes USB interface cable.

\*\* Requires input cable. See page 57 for compatibility.

† Requires sensor power adapter (AC-SENS-1) See page 57 for compatibility.

HOBOware Software is available for download via the web. Visit [onsetcomp.com](http://onsetcomp.com) for details.