# HOBO® U12 Logger

## Multi-channel energy & environmental monitoring

HOBO U12 data loggers provide flexibility for monitoring up to 4 channels of energy and environmental data with a single, compact logger. They provide 12-bit resolution measurements for detecting greater variability in recorded data, direct USB connectivity for convenient, fast data offload, and a 43K measurement capacity.

**Supported Measurements:** Temperature, Relative Humidity, Dew Point, 4-20mA, AC Current, AC Voltage, Air Velocity, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Gauge Pressure, Kilowatts, Light Intensity, Volatile Organic Compound (some sensors sold separately)

### Key Advantages:

• Records up to 4 channels
• Your choice of three models, with flexible measurement options
• Programmable as well as push-button start
• Compatible with a broad range of external sensors

### Minimum System Requirements:

Software    USB cable*

▶ For complete information and accessories, please visit: **www.onsetcomp.com**

| Part number | U12-006<br>(4 Ext) | U12-012<br>(Temp/RH/Light/Ext) | U12-013<br>(Temp/RH/2 Ext) |
|---|---|---|---|
| Memory | 43,000 measurements | | |
| Sampling rate | 1 second to 18 hours, user-selectable | | |
| Battery life | 1 year typical, user-replaceable, CR2032 | | |
| **Temperature** | | | |
| Max range | | -20° to 70°C (-4° to 158°F) | |
| Accuracy | | ± 0.35°C from 0° to 50°C (± 0.63°F from 32° to 122°F) | |
| Resolution (12-bit) | | 0.03°C @ 25°C (0.05°F @ 77°F) | |
| **Relative Humidity** | | | |
| Measurement range | | 5% to 95% RH (non-condensing) | |
| Accuracy | | ± 2.5% typical, 3.5% maximum, from 10 to 90% RH | |
| Resolution (10-bit) | | 0.03% RH | |
| **Light Intensity** | | | |
| | | Designed for general purpose indoor measurement of relative light levels | |
| Range | | 1 to 3000 footcandles (lumens/ft2) typical 0-32,300 lumens/m2 | |
| **External Input** | | | |
| Range | 0 to 2.5 VDC | | |
| Accuracy | ± 2 mV,  ± 2.5% of absolute reading | | |
| Resolution | 0.6 mV | | |
| CE compliant | | Yes | |

*USB cable included with software
For stand-alone data logging applications in harsh indoor environments, see the 4-channel HOBO U12 Industrial data logger (U12-008) at onsetcomp.com

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