



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 | U12-012 (Temp/RH/Light/Ext) | U12-013 (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% from 10%RH to 90%RH typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10%RH and above 90%RH ±5% typical | |
| Resolution (10-bit) | 0.05%RH | |
| Light Intensity | | |
| | Designed for general purpose indoor measurement of relative light levels | |
| Range | 1 to 3000 footcandles (lumens/ft ²) typical 0-32,300 lumens/m ² | |
| External Input | | |
| Range | 0 to 2.5 VDC | |
| Accuracy | ± 2 mV, ± 2.5% of absolute reading | |
| Resolution | 0.6 mV | |
| CE compliant | Yes | |

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

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 onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532



METRICS

Metrics GmbH • Elberfelder Str. 19-21 • 58095 Hagen
Telefon: 02331 3483086 • Telefax: 02331 3483088
E-Mail: info@metrics24.de • <https://www.metrics24.de>