

U12-012

HOBO Temperature/Relative Humidity/Light/External Data Logger

Discontinued

Measures temperature, relative humidity, light intensity, and more; 12-bit resolution, stores 43,000 measurements.

Important Information

Requires HOBOWare software and a USB cable. (Note: A USB cable is included w/HOBOWare Pro CD or USB software purchase). See compatible items below.



Compatible with
HOBOWare[®] Software

Supported Measurements

4-20mA, AC Current, AC Voltage, Air Velocity, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Dew Point, Gauge Pressure, Kilowatts (kW), Light Intensity, Relative Humidity, Temperature

Features

- 12-bit resolution provides high accuracy
- Large memory for long-term deployments or fast sampling
- Programmable and push button start
- Direct USB interface for fast data offload
- Compatible with Onset's HOBO U-Shuttle for convenient data transport
- Compatible with HOBOWare and HOBOWare Pro for logger setup, graphing, and analysis

What's in the box

- HOBO U12-012 Temp/RH/Light External Data Logger
- Mounting kit: magnet, hook & loop tape, tie-wrap mount, tie wrap, and two screws

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

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532

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

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

HOBO Temperature/Relative Humidity/Light/External Data Logger (U12-012) Specifications

Measurement Range

Temperature: -20° to 70°C (-4° to 158°F)

RH: 5% to 95% RH

Light intensity: 1 to 3000 footcandles (lumens/ft²) typical; maximum value varies from 1500 to 4500 footcandles (lumens/ft²)

Analog channels: 0 to 2.5 Vdc (w/[CABLE-2.5-STEREO](#)); 0 to 5 Vdc (w/[CABLE-ADAP5](#)); 0 to 10 Vdc (w/ [CABLE-ADAP10](#)); 4-20 mA (w/[CABLE-4-20MA](#))

Accuracy

Temperature: ± 0.35°C from 0° to 50°C (± 0.63°F from 32° to 122°F), see Plot A in manual

RH: ± 2.5% from 10% to 90% RH typical, to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical, see Plot B in manual

Light intensity: Designed for indoor measurement of relative light levels, see Plot D in manual for light wavelength response

External input channel (see sensor manual): ± 2 mV ± 2.5% of absolute reading

Resolution

Temperature: 0.03°C at 25°C (0.05°F at 77°F), see Plot A in manual

RH: 0.05% RH

Sample rate: 1 second to 18 hours, user selectable

Drift

Temperature: 0.1°C/year (0.2°F/year)

RH: <1% per year typical; RH hysteresis 1%

Response Time in Airflow of 1 m/s (2.2 mph)

Temperature: 6 minutes, typical to 90%

RH: 1 minute, typical to 90%

Time accuracy: ± 1 minute per month at 25°C (77°F), see Plot C in manual

Operating Temperature

Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)

Launch/readout: 0° to 50°C (32° to 122°F), per USB specification

Battery life: 1 year typical use

Memory: 64K bytes (43,000 12-bit measurements)

Weight: 46 g (1.6 oz)

Dimensions: 58 x 74 x 22 mm (2.3 x 2.9 x 0.9 inches)



The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).