ONSET

HOBO® UX120-006M Data Logger

4-Channel Analog Data Logger

The HOBO UX120-006M Analog Data Logger is a highperformance, LCD display data logger for building performance monitoring applications.

As Onset's highest-accuracy data logger, it provides twice the accuracy of previous models, a deployment-friendly LCD, and flexible support up to four external sensors for measuring temperature, current, CO2, voltage, and more.

The data logger is ideal for energy audits, building commissioning studies, equipment scheduling, and more.

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Supported Measurements:

4-20mA, AC Current, AC Voltage, Air Velocity, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Differential Pressure, Gauge Pressure, Kilowatts (kW), Temperature and Volatile Organic Comp.

Key Advantages:

- Twice the accuracy over previous models with 16-bit resolution
- Flexible support for a wide range of external sensors
- LCD confirms logger operation and displays near real-time measurement data
- Provides minimum, maximum, average and standard deviation logging options
- On-screen alarms notify you when a sensor reading exceeds set thresholds
- Stores 1.9 million measurements for longer deployments between offloads
- Compatible with HOBOware and HOBOware Pro software for logger setup, graphing and analysis

HOBO UX120-006M Data Logger Specifications

Logger w/Cable

Measurement Range:

4-20mA (w/CABLE-4-20MA) 0 to 20.1 mA 0 to 2.5 V (w/CABLE-2.5-STEREO) 0 to 5 V (w/CABLE-ADAP5) 0 to 10 V (w/ CABLE-ADAP10) 0 to 24 V (w/ CABLE-ADAP24)

Accuracy:

4-20mA ±0.001 mA ±0.2% of reading (w/CABLE-4-20MA) ±0.1 mV ±0.1% of reading (w/CABLE-2.5-STEREO) ±0.2 mV ±0.3% of reading (w/CABLE-ADAP5) ±0.4 mV ±0.3% of reading (w/ CABLE-ADAP10) ±1.0 mV ±0.3% of reading(w/ CABLE-ADAP24)

Resolution:

0.3 μA 4-20mA (w/CABLE-4-20MA) 40 μV (w/CABLE-2.5-STEREO) 80 μV (w/CABLE-ADAP5) 160 μV (w/ CABLE-ADAP10) 384 μV (w/ CABLE-ADAP24)

Logger

Operating range 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 **Logging rate:** 1 second to 18 hours, 12 minutes, 15 seconds

Logging modes: Normal, burst, or statistics **Memory modes:** Wrap when full or stop when full

Start modes: Immediate, push button, date & time, or next interval **Stop modes**: When memory full, push button, or date & time

Restart mode: Push button

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

Battery life: 1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater

Battery type: Two AAA 1.5 V alkaline batteries, user replaceable

Memory: 4 MB (1.9 million measurements, maximum)

Download type: USB 2.0 interface

Full memory download time: approximately 1.5 minutes

LCD: LCD is visible from 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this

range

Size: 10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1 in.)

Weight: 107.5 g (3.79 oz) Environmental rating: IP50

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

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 www.onsetcomp.com/support/contact
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