



HOBO® UX120-006M Data Logger

4-Channel Analog Data Logger

The HOBO UX120-006M Analog Data Logger is a high-performance, 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.



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

Resolution:

0.3 μ A 4-20mA (w/CABLE-4-20MA)
40 μ V (w/CABLE-2.5-STEREO)
80 μ V (w/CABLE-ADAP5)
160 μ V (w/ CABLE-ADAP10)
384 μ V (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

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