

HOBO UX120 4-Channel Analog Logger

Flexible, Accurate, 4-channel Analog Logger

The HOBO UX120-006M Analog 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.

Supported Measurements: Temperature, 4-20mA, AC Current, AC Voltage, Air Velocity, Carbon Dioxide, Compressed Air Flow, DC Current, DC Voltage, Gauge Pressure, Kilowatts, Volatile Organic Compound (sensors sold separately)



Minimum System Requirements:



Key Advantages:

- · Twice the accuracy over previous models
- 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

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

Part number	UX120-006M (4-Channel Analog)	
Memory	1.9 Million	
Logging Rate	1 second to 18 hours, user selectable	
Logging Modes	Normal, Burst, Statistics	
Memory Modes	Wrap when full or stop when full	
Time Accuracy	±1 minute per month at 25°C (77°F)	
Battery Life	1 year typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user replaceable, 2 AAA	
Dimensions	10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1 in.)	
Operating Range	Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)	
Accuracy	±0.1 mV ±0.1% of reading	
CE Compliant	Yes	

HOBO® UX120 4-Channel Thermocouple Logger

Log type J, K, T, E, R, S, B, or N thermocouples

The HOBO UX120 Thermocouple Logger is a four-channel LCD data logger for measuring and recording temperature in a range of monitoring applications. The logger makes it easy and convenient to record temperatures over a broad range (-260 to 1820° C) and can accept up to four J, K, T, E, R, S, B, or N type probes.

In addition to accepting four thermocouple probes, the logger features an internal temperature sensor for logging ambient temperatures, further extending the application possibilities.

Supported Measurements: Temperature

Key Advantages:

- · Easy-to-view LCD display confirms logger operation and battery status
- Near real-time readout of current temperatures as well as minimum, maximum, average and standard deviation statistics
- On-screen alarms notify you if temperatures exceed high or low thresholds
- · Large memory capacity capable of storing 1.9 million measurements
- Start, stop, and restart pushbuttons
- User-upgradeable firmware

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

Part number	UX120-014M (Thermocouple)				
	Internal Temperature				
Range	-20° to 70°C (-4° to 158°F)				
Accuracy	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)				
Resolution	0.024°C at 25°C (0.04°F at 77°F)				
Drift	<0.1°C (0.18°F) per year				
	Logger				
Logging Rate	1 second to 18 hours, 12 minutes, 15 seconds				
Logging Modes	Normal, Burst, Statistics				
Memory Modes	Wrap when full or stop when full				
Time Accuracy	±1 minute per month at 25°C (77°F)				
Battery Life	1 year typical with logging rate of 1 min	1 year typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user replaceable, 2 AAA			
Dimensions	10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1	10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1 in.)			
Operating Range	Logging: -20° to 70°C (-4° to 158°F); 0	Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)			
CE Compliant	Yes	Yes			
Thermocouple	Range	Accuracy	Resolution		
(probes sold separately)					
Type J	-210° to 760°C (-346° to 1,400°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.03°C (0.06°F)		
Туре К	-260° to 1,370°C (-436° to 2,498°F)	$\pm 0.7^{\circ}C$ ($\pm 1.26^{\circ}F$) \pm thermocouple probe accuracy	0.04°C (0.07°F)		
Туре Т	-260° to 400°C (-436° to 752°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.02°C (0.03°F)		
Type E	-260° to 950°C (-436° to 1,742°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.03°C at (0.05°F)		
Type R	-50° to 1,550°C (-58° to 2,822°F)	$\pm 2.2^{\circ}C$ ($\pm 3.96^{\circ}F$) \pm thermocouple probe accuracy	0.08°C (0.15°F)		
Type S	-50° to 1,720°C (-58° to 3,128°F)	$\pm 2.2^{\circ}C$ ($\pm 3.96^{\circ}F$) \pm thermocouple probe accuracy	0.08°C (0.15°F)		
Туре В	+60° to 1,820°C (1,022° to 3,308°F)	$\pm 2.5^{\circ}C$ ($\pm 4.5^{\circ}F$) \pm thermocouple probe accuracy	0.1°C (0.18F)		
Туре N	-260° to 1,300°C (-436° to 2,372°F)	$\pm 1.0^{\circ}C (\pm 1.8^{\circ}F) \pm thermocouple probe accuracy$	0.06°C (0.11°F)		



Minimum System Requirements:



HOBO[®] UX120 Pulse Logger

Log pulse signals, events, state changes, and runtimes

The HOBO UX120 4-Channel Pulse data logger is a highly versatile, 4-channel energy data logger that combines the functionality of four separate energy loggers into one compact unit. It enables energy management professionals – from energy auditors to building commissioners – to easily track building energy consumption, equipment runtimes, and water and gas flow rates.

Supported Measurements: Pulse Signals, Event, Runtime, State, AC Current, AC Voltage, Amp Hour, Kilowatt Hours, Kilowatts, Motor On/Off, Power Factor, Volt-Amps, Watt Hours, Watts, Volt-Amp Reactive, Volt-Amp Reactive Hour



Key Advantages:

- · Simultaneously measures and records pulse signals, events, state changes, and runtimes
- · Stores over 4 million measurements, enabling longer deployments with fewer site visits
- Streamlines deployment via range of start/stop options, logger status LEDs, and high-speed USB 2.0 data offload
- Works with Onset's E50B2 Power & Energy Meter to measure Power Factor, Reactive Power, Watt Hours, and more

Minimum System Requirements:

Software	USB cable*	Sensor

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

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

Email sales@onsetcomp.com

Call 1-800-564-4377

Fax 1-508-759-9100

Part number	UX120-017	UX120-017M	
Memory	520,000 measurements	4,000,000 measurements	
Sampling rate	1 second to 18 hours		
Battery life	1 year typical, user replaceable, 2 AA		
External contact Input	Electronic solid state switch closure or logic driven digital signals to 24V		
Max pulse frequency	120 Hz		
Max state, event, runtime frequency	1 Hz		
Resolution	Pulse: 1 pulse, Runtime: 1 second, State and Event: 1 state or event		
Bits	4 - 32 bits depending on pulse rate and logging interval		
Lockout time	0 to 1 second in 100 ms steps		
Operating temperature range	Logging: -40° to 70°C (-40° to 158°F); 0 to 95% RH (non-condensing)		
Dimensions	11.4 x 6.3 x 3.3 cm (4.5 x 2.5 x 1.3 inches)		
CE compliant	Yes		

*USB cable included with software

Contact Us

Technical Support

- (8am to 8pm ET, Monday through Friday)
- www.onsetcomp.com/support/contact
- Call 1-877-564-4377
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