HOBO 4-Channel Pulse Data Logger - UX120-017M



Measures:

AC Current, AC Voltage, Amp Hour (Ah), Amps (A), Event, Kilowatt Hours (kWh), Kilowatts (kW), Motor On/Off, Power Factor (PF), Pulse Input, Runtime, State Open/Closed, Volt-Amp Reactive (VAR), Volt-Amp Reactive Hour (VARh), Volt-Amps (VA), Volts (V), Watt Hours (Wh), Watts (W)

Features:

- Simultaneously measures and records pulse signals, events, state changes, and runtimes
- Stores up to over 4 million measurements, enabling longer deployments with fewer site visits
- Maximum pulse rate 120 Hz
- Pulse input range â€" 0 to 24VDC
- Streamlines deployment via a range of start/stop options, logger status LEDs, and high-speed USB 2.0 data offload
- Works with Onset's Energy & Power Meter to measure Power Factor (PF), Reactive Power (VAR), Watt Hours (Wh) and more. Learn how. The T-VER-E50B2 Energy and Power Meter outputs (3) sets of pulses which are logged by the UX120-017. These pulses represent Watt-hours, Amp-hours, and VAR-hours. HOBOware software uses these pulse values to caclulate AC Current, AC Voltage, kW, Power Factor, VARs, and VA. The formulas used in these calculations can be found here: <u>14993-A-Derived-Channels.zip</u>
- Compatible with HOBOware and HOBOware Pro software for logger setup, graphing and analysis

Qty	1-9	10-99	100+
\$US	\$325	\$302	\$276

Contact Onset at 1-800-564-4377

Description:

Inputs:

The HOBO UX120 Pulse Logger is a highly versatile, 4-channel <u>energy</u> data logger that combines the functionality of four separate data 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. The HOBO UX120 Pulse Logger is available in a <u>standard memory model (UX120-017)</u> capable of 500,000 measurements and an <u>expanded memory version (UX120-017M</u>) capable of over 4,000,000 measurements.

Detailed Specifications:

External Contact Input:	Electronic solid state switch closure or logic driven digital signals to 24 V	
Maximum Pulse Frequency:	120 Hz	
Maximum State, Event, Runtime Frequency:	1 Hz	
Bits:	4â€``32 bits depending on pulse rate and logging interval	
Maximum Pulses Per Interval:	7,863,960 (using maximum logging rate)	
Driven Logic Signal:	Input Low: ≤ 0.4 V; Input High: 3 to 24 V	
Absolute Maximum Rating:	Maximum Voltage: 25 V DC Minimum Voltage: -0.3 V DC	
Solid State Switch Closure:	Input Low: < 10 KÎ \odot ; Input High: > 500 KÎ \odot	
Internal Weak Pull-Up:	100 KΩ	
Input Impedance:	Solid state switch closure: 100 KÎ $^{\odot}$ pull up; Driven signal: 4.5 KÎ $^{\odot}$	
Minimum Pulse Width:	Contact closure duration: 500 uS; Driven logic signal: 100 uS	
Lockout Time:	0 to 1 second in 100 ms steps	
Edge Detection:	Falling edge, Schmitt Trigger buffer	

Preferred Switch State:	Normally open or Logic "1" state	
Logging:		
Resolution:	Pulse: 1 pulse, Runtime: 1 second, State and Event: 1 State or Event	
Logging Rate:	1 second to 18 hours, 12 minutes, 15 seconds	
Time Accuracy:	$\hat{A}\pm$ 1 minute per month at 25 \hat{A}° C (77 \hat{A}° F) (see Plot A in manual)	
Battery Type:	Two AA alkaline or lithium batteries	
Battery Life:	1 year, typical with logging intervals greater than 1 minute and normally open contacts	
Memory:		
Memory	UX120-017: 520,192 measurements (assumes 8-bit) UX120-017M: 4,124,672 measurements (assumes 8-bit)	
Download Type	USB 2.0 interface	
Download Time	30 seconds for UX120-017, 1.5 minutes for UX120-017M	
Physical:		
Operating Range	Logging: -40° to 70°C (-40° to 158°F); 0 to 95% RH (non-condensing) Launch/Readout: 0° to 50°C (32° to 122°F) per USB specification	
Weight	149 g (5.26 oz)	
Size	11.4 x 6.3 x 3.3 cm (4.5 x 2.5 x 1.3 inches)	
Environmental Rating	IP50	
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).	



1-800-LOGGERS