The HOBO UX120 4-Channel Pulse Input 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.

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 a 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 (PF), Reactive Power (VAR), Watt Hours (Wh) and more

Measurements:

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

Unparalleled Flexibility

The HOBO UX120 offers unparalleled energy measurement flexibility at a fraction of the cost of current multi-channel pulse logging solutions. It is an ideal toolbox product for energy monitoring applications where fast deployment and a range of energy measurements are needed. For example, while the logger is monitoring power use on one channel, it can independently track gas flow on another, pump runtimes on another, and the open and closed status of a door on yet another.

Streamlined Deployment

The HOBO UX120 Pulse Logger provides a number of features that provide users with greater control over their deployments. For example, users can start and stop the logger via software or push buttons, and set the logger so it continues to log/overwrite data when the memory is full. It also provides diagnostics via on-board LEDs to assure logger operation/status which aids the installation process, and enables high-speed data offloads via its USB 2.0 interface.

Push button operation simplifies deployment

LEDs indicate logger status

Compact, flame retardant housing

4 independent logging modes

USB 2.0 interface for fast data offloads

Onboard diagnostics confirm sensor operation

Standard screw mount terminals to make it easy to connect sensors

HOBO 4-Channel Pulse Input

	UX120-017	UX120-017M
CE		
Memory	520,192 measurements (assumes 8-bit)	4,124,672 measurements (assumes 8-bit)
Sampling Rate	1 second to 18 hours	
Battery life	1 year, typical with logging intervals greater than 1 minute and normally open contacts 2 AA (user replaceable)	
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: -40º to 70ºC (-40º to 158ºF); 0 to 95% RH (non-condensing)	
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)	
Measurements logged	AC Current (A), AC Voltage (V), Amp Hour (Ah), Event, Kilowatt Hours (kWh), Kilowatts (kW), Motor On/Off, Power Factor (PF), Pulse Input, Runtime, Volt-Amp Reactive (VAR), Volt-Amp Reactive Hour (VARh), Volt-Amps (VA), Watt Hours (Wh), Watts (W)	

Ordering Information

Logger
HOBO UX120 Pulse Logger (standard memory)   UX120-017
HOBO UX120 Pulse Logger (expanded memory)   UX120-017M

Software
HOBOware Pro Software (Windows/Mac)   BHW-PRO-CD

Optional Communications
HOBO U-Shuttle*   U-DT-1

Sensors
E50B2 Power & Energy Meter   T-VER-E50B2
Measurements: AC Current, AC Voltage, Amp Hour, Amps, Kilowatt Hours, Kilowatts, Power Factor, Volt-Amp Reactive, Volt-Amp Reactive Hour, Volt-Amps, Volts, Watt Hours, Watts

KWh
WattNode Wye config 208/240   T-WNB-3Y-208
WattNode Wye 208/240 opt P3   T-WNB-3Y-208P
WattNode Delta/Wye config 208/240   T-WNB-3D-240
WattNode Delta/Wye config 480   T-WNB-3D-480
"B" Series Voltage Lead Set   A-WNB-LEADSET
Veris 1-phase, 300 Amp   T-VER-8051-300
Veris 3-phase, 800 Amp   T-VER-8053-800

Water Flow
Water Flow Meter   T-MINOL-130

Motor on/off
AC Current Switch Sensor   CSV-A8

Accessories
For HOBO UX120 Pulse Logger
Spare terminal blocks   A-UX120-TERM-BLOCK
For E50B2 Power & Energy Meter
Single phase fuse kit   T-VER-AH02
Wiring kit   A-E50B2-LEADSET

*Requires HOBOware Pro software, see page 52 for details.
HOBOware includes USB interface cable.

Data Loggers/ Indoor Environments