### onset

## **HOBO 4-Channel Pulse Input Data Logger**



### Measurements:

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

# 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:**

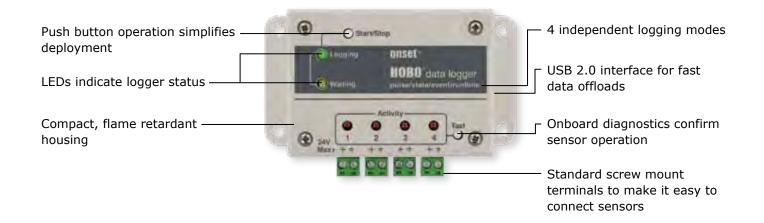
- Simultaneously measures and records pulse signals, events, state changes, and runtimes
- Stores over 4 million measurements, enabling longer deployments with fewer site visits
- Streamlines deployment via a range of start/stop options, logger status LEDs, and high-speed USB 2.0 data offload
- Works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

The HOBO UX120 offers unparalleled energy measurement flexibility at a fraction of the cost of current multichannel 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**

**Unparalleled Flexibility** 

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.



HOBO 4-Channel Pulse Input				
CE	UX120-017	UX120-017M		
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: -40° to 70°C (-40° to 158°F); 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		KWh		
(standard memory)	UX120-017	WattNode Wye config 208/240	T-WNB-3Y-208	
HOBO UX120 Pulse Logger		WattNode Wye 208/240 opt P3	T-WNB-3Y-208P	
(expanded memory)	UX120-017M	WattNode Delta/Wye config 208/240		
		WattNode Delta/Wye config 480	T-WNB-3D-480	
Software		"B" Series Voltage Lead Set	A-WNB-LEADSET	
HOBOware Pro Software	BHW-PRO-CD	Veris 1-phase, 300 Amp	T-VER-8051-300	
(Windows/Mac)		Veris 3-phase, 800 Amp	T-VER-8053-800	
Optional Communications		Water Flow		
HOBO U-Shuttle*	U-DT-1	Water Flow Meter	T-MINOL-130	
Sensors		Motor on/off		
E50B2 Power & Energy Meter Measurements: AC Current,	T-VER-E50B2	AC Current Switch Sensor	CSV-A8	
AC Voltage, Amp Hour, Amps,		Accessories		
Kilowatt Hours, Kilowatts,		For HOBO UX120 Pulse Logger		
Power Factor, Volt-Amp Reactive,		Spare terminal blocks	A-UX120-TERM-BLOCK	
Volt-Amp Reactive Hour, Volt-Amps,		For E50B2 Power & Energy Meter		
Volts, Watt Hours, Watts		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.