



## HOBO® UX120-018 Data Logger

### Plug Load Data Logger

Onset's HOBOb Plug Load Data Logger is a high-accuracy, easy-to-deploy data logger that measures and records the power and energy consumption of 120V plug loads from office equipment, vending machines, and other devices.

#### Accurate and Rugged

The UL certified logger provides 0.5% measurement accuracy with a measurement resolution of 1 watt, making it an ideal choice for building audits where detailed energy use data is required. The rugged housing is designed to withstand the rigors of real-world handling, providing reliable performance despite bumps, drops, and use under desks.



#### Key Advantages:

- 0.5% measurement accuracy enables more reliable plug load energy data
- "Meter Mode" provides instant viewing of real-time plug load variables
- Provides time-stamped and totalized load data for detailed energy analysis
- Large memory enables faster logging intervals for more comprehensive plug load profiles
- Battery back-up ensures logged data remains intact in the event of a power outage or load failure
- Full-featured LCD display provides visual diagnostics for easy deployment
- Compatible with HOBObware and HOBObware Pro software for logger setup, graphing and analysis

## HOBO UX120-018 Data Logger Specifications

Note: The UX120-018 logger is intended for use on 15 AMP circuits (NEMA 5-15P) with a working voltage of 120V AC  $\pm 10\%$  at 50/60Hz and a max power of 1800W.

- Indoor use only
- Insulation category 2

<b>RMS Voltage Accuracy:</b>	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
<b>RMS Current Accuracy:</b>	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
<b>Active Power Accuracy:</b>	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
<b>Active Energy Accuracy:</b>	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
<b>Power Factor Accuracy:</b>	$\pm 0.02$	
<b>Drift:</b>	Up to 0.5% typical within 1 year	
<b>Resolution:</b>	Volts, rms	10mV
	Amps, rms	0.1mA
	Active Power	10mW down to 1 watt loads @ 120VAC
	Apparent Power	10mVA
	Power Factor	0.01 PF
<b>Operating Environment:</b>	Logging: 5° to 40°C (41° to 104°F); 0 to 95% RH (non-condensing), up to 2,000 m (6,562 ft) altitude	
<b>Operating Modes:</b>	Meter or logging when launched with HOBOWare	
<b>Logging Rate:</b>	1 second to 18 hours, 12 minutes, 15 seconds	
<b>Statistics Sampling Rate:</b>	60 Hz or 16.67 mS single-cycle	
<b>Memory Modes:</b>	Wrap when full or stop when full	
<b>Start Modes:</b>	Immediate, push button, date & time, or next interval	
<b>Stop Modes:</b>	When memory full, push button, or date & time	
<b>Restart Mode:</b>	Push button	
<b>Time Accuracy:</b>	$\pm 1$ minute per month at 25°C (77°F), see Plot A	
<b>Power Source:</b>	Line-powered with 0.92 m (3 ft) AC power cord or two AAA 1.5 V alkaline batteries, user replaceable	
<b>Battery Life:</b>	2 years with line power; 6 months battery only (no line power) with logging rate of 1 minute or greater operating at 25°C (77°F)	
<b>Memory:</b>	4 MB (1.4 million measurements, maximum)	
<b>Download Type:</b>	USB 2.0 interface	
<b>Full Memory Download Time:</b>	Approximately 1.5 minutes	
<b>LCD:</b>	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	
<b>Size:</b>	13.97 x 7.62 x 4.75 cm (5.5 x 3 x 1.87 in.)	
<b>Weight:</b>	230.8 g (8.14 oz)	
<b>Ratings:</b>	IP50; UL Listed; UL Listed to Canadian safety standards	
<b>Calibration:</b>	This device has been calibrated using equipment that has been tested in accordance with ANSI C12.20 0.5%.	

