



HOBO® UX120-018 Data Logger

Plug Load Data Logger

Onset's HOBO 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.

Supported Measurements:

AC Current, AC Voltage, Amps (A), Kilowatt Hours (kWh), Power Factor (PF), Volt-Amps (VA), Volts (V), Watt Hours (Wh) and Watts (W)

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 HOBOWare and HOBOWare 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

RMS Voltage Accuracy:	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
RMS Current Accuracy:	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
Active Power Accuracy:	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
Active Energy Accuracy:	0.5% up to 14 Amp continuous; up to 1.0% over 14 Amp when equipment being monitored is at 100% duty cycle	
Power Factor Accuracy:	± 0.02	
Drift:	Up to 0.5% typical within 1 year	
Resolution:	Volts, rms	10mV
	Amps, rms	0.1mA
	Active Power	10mW down to 1 watt loads @ 120VAC
	Apparent Power	10mVA
	Power Factor	0.01 PF
Operating Environment:	Logging: 5° to 40°C (41° to 104°F); 0 to 95% RH (non-condensing), up to 2,000 m (6,562 ft) altitude	
Operating Modes:	Meter or logging when launched with HOBOWare	
Logging Rate:	1 second to 18 hours, 12 minutes, 15 seconds	
Statistics Sampling Rate:	60 Hz or 16.67 mS single-cycle	
Memory Modes:	Wrap when full or stop when full	
Start Modes:	Immediate, push button, date & time, or next interval	
Stop Modes:	When memory full, push button, or date & time	
Restart Mode:	Push button	
Time Accuracy:	± 1 minute per month at 25°C (77°F), see Plot A	
Power Source:	Line-powered with 0.92 m (3 ft) AC power cord or two AAA 1.5 V alkaline batteries, user replaceable	
Battery Life:	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)	
Memory:	4 MB (1.4 million measurements, maximum)	
Download Type:	USB 2.0 interface	
Full Memory Download Time:	Approximately 1.5 minutes	
LCD:	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	
Size:	13.97 x 7.62 x 4.75 cm (5.5 x 3 x 1.87 in.)	
Weight:	230.8 g (8.14 oz)	
Ratings:	IP50; UL Listed; UL Listed to Canadian safety standards	
Calibration:	This device has been calibrated using equipment that has been tested in accordance with	