

UX120-018

## HOBOb Plug Load Data Logger

### No electrician required!

A high-accuracy, easy-to-deploy data logger that measures and records the power and energy consumption of 120V plug loads by simply plugging office equipment, vending machines, and other devices into the logger

### Important Information

Requires HOBObware software and a USB cable. (Note: A USB-A to USB-B mini cable is included w/HOBObware Pro USB Drive software purchase). See compatible items below.



Compatible with  
**HOBObware<sup>®</sup> Software**



## Supported Measurements

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

## Features

No Electrician Required Simply plug in the device that needs to be monitored.

- 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 backup 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 and graphing & analysis

## What's in the box

- HOBOb UX120-018 Plug Load Data Logger
- AC power cord

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

## HOBO Plug Load Data Logger (UX120-018) 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

**Maximum Current: 15 Amps**

|                                   |   |
|-----------------------------------|---|
| <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<br>Amps, rms      0.1mA<br>Active Power    10mW down to 1 watt loads @ 120VAC<br>Active Energy   10mW<br>Apparent Power 10mVA<br>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  |

**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 ANSI C12.20 0.5%.

Time Accuracy  
Time Accuracy or type unknown