



## HOBO<sup>®</sup> UX90-001M Data Logger

### Extended Memory State

The HOBO State/Pulse/Event/Runtime data logger records state changes, electronic pulses and mechanical or electrical contact closures from external sensing devices. This logger is ideal for monitoring energy consumption, mechanical equipment operation, and water and gas flow. The HOBO UX90-001 State Logger is available in a standard 128 KB memory model (UX90-001) capable of 84,650 measurements and an expanded 512KB memory version (UX90-001M) capable of over 346,795 measurements.



#### Key Advantages:

- One logger with 4 recording modes
- Internal reed switch can be used to determine when a door or window is open or closed
- Compatible with a wide range of external sensors
- Ships with 2.5 mm input cable
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing and analysis

## HOBO UX90-001M Data Logger Specifications

### Internal Sensor

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**Maximum state, event, runtime frequency:** 1 Hz

**Preferred switch state:** No magnet present (normally open)

### External Input

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**External contact input:** Electronic solid state switch closure or logic driven voltage output

**Range:** 0 to 3 V DC (USB powered), 0 to 2.5 V DC (battery powered)

**Maximum pulse frequency:** 50 Hz

**Maximum state, event, runtime frequency:** 1 Hz

**Pulse, event lockout time:** 0 to 1 second in 100 ms steps

**Solid state switch closure:** Input Low: < 10 K ; Input High: > 500 K

**Internal weak pull-up:** 100 K

**Input impedance:** Solid state switch closure: 100 K pull up

### Logger

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**Resolution:** Pulse: 1 pulse, Runtime: 1 second, State and Event: 1 State or Event

**Logging rate:** 1 second to 18 hours, 12 minutes, 15 seconds

**Time accuracy:** ±1 minute per month at 25°C (77°F) (see Plot A)

**Battery life:** 1 year, typical with logging intervals greater than 1 minute and normally open contacts

### Memory

**UX90-001:** 128 KB (84,650 measurements, maximum)

**UX90-001M:** 512 KB (346,795 measurements, maximum)

**Download type:** USB 2.0 interface

**Download time:** 10 seconds for 128 KB; 30 seconds for 512 KB

### Logger Operating Range

**Logging:** -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)

**Launch/readout:** 0° to 50°C (32° to 122°F) per USB specification

**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:** 3.66 x 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 in.)

**Weight:** 23 g (0.81 oz)

**Environmental rating:** IP50

**CE** - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)

## 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

Technical Support (8am to 6pm 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

Onset Computer Corporation  
470 MacArthur Boulevard  
Bourne, MA 02532