



HOBO[®] UX90-004x Data Logger

Motor On/Off

Records motor on/off conditions within an AC magnetic field with its internal sensor, or mechanical dry contact closures from external sensing devices. Ideal for tracking the usage and runtimes of motors, pumps, compressors, and other equipment, this logger is available in a standard 128 KB memory model (UX90-004) capable of 84,650 measurements and an expanded 512KB memory version (UX90-004M) capable of over 346,795 measurements.

Product Numbers:

UX90-004


UX90-004M

Key Advantages:

- Dual internal motor sensors gives better sensitivity for well-shielded motors
- External input for measuring mechanical contact closures when signal strength is low
- Auto-calibration of ON and OFF thresholds ensures reliable readings
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing, and analysis



HOBO UX90-004x Data Logger Specifications

Internal Motor Sensor	
AC Magnetic Field Threshold	>40 mGauss at 60 Hz
External Input	
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 State and Runtime Frequency	1 Hz
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	
Resolution	Pulse: 1 pulse, Runtime: 1 second, State and Event: 1 State or Event
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
Power Source	One 3V CR2032 lithium battery and USB cable
Battery Life	1 year, typical with logging intervals greater than 1 minute and normally open contacts
Memory	UX90-004: 128 KB (84,650 measurements, maximum) UX90-004M: 512 KB (346,795 measurements, maximum)
Download Type	USB 2.0 interface
Full Memory 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 8.48 x 1.52 cm (1.44 x 3.34 x 0.6 in.)
Weight	30 g (1.06 oz)
Environmental Rating	IP50
Compliance Marks	

Contact Us

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

- ▶ Email 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
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-877-564-4377

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