Records motor on/off conditions within an AC magnetic field with its internal sensor, or mechanical dry contact closures from external sensing devices. This logger is ideal for tracking the usage and runtimes of motors, pumps, compressors, and other equipment.

Features :

- 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 and graphing & analysis

What's In The Box

- HOBO UX90-004 Motor On/Off Data Logger

- Command™ strip

- Double-sided tape

- Hook & loop strap

Scientech

Technical 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 KΩ; Input High: > 500 KΩ
Internal Weak Pull-Up	:	100 KΩ
Input Impedance	:	Solid state switch closure: 100 KΩ 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
Time Accuracy	:	±1 minute per month at 25°C (77°F) (see Plot A)
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

CE

Subject to Change