



HOBO UX90 State Logger - UX90-004

Overview

Supported Measurements:

Motor On/Off, Runtime, State Open/Closed

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

Replacement for: H06-004-02, U9-004

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 Ω ; Input High: > 500 K Ω

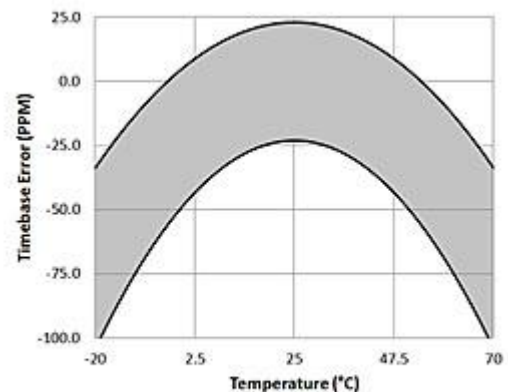
Internal Weak Pull-Up: 100 K Ω

Input Impedance: Solid state switch closure: 100 K Ω pull up

Logger

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

Time



Plot A: Time Accuracy

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:

UX90-004: 128 KB (84,650 measurements, maximum)
UX90-004M: 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 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 - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)