



HOBO® UX90 State Logger - UX90-001

Supported Measurements:

Event, Kilowatt Hours (kWh), Motor On/Off, Pulse Input, Runtime, State Open/Closed, Water Flow

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

Replacement for: H06-001-02, U9-001

Internal Sensor

Maximum State, Event, Runtime Frequency: 1 Hz

Preferred Switch State: No magnet present (normally open)

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 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 Ω ; Input High: > 500 K Ω

Internal Weak Pull-Up: 100 K Ω

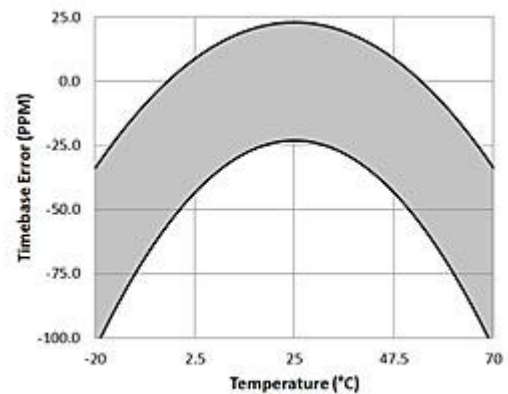
Input Impedance: Solid state switch closure: 100 K Ω pull up

Logger

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

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

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:

UX90-001: 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)