



# HOBO Pendant Event Data Logger (UA-003-64) Specifications

## External Event Input

**Event sensor:** Two-wire interface suitable for measuring mechanical and electrical contact closures

**Maximum input frequency:** 1 Hz (1 pulse per second)

**Lockout time:** 500 ms

**Minimum pulse width:** 1 ms (hardware debounce)

**Input/output impedance:** 100 k $\Omega$

**Edge detection:** Falling edge, contact closure, or Schmitt-trigger buffer

**Preferred switch type:** Normally open. For maximum battery life, the event input should be used with its preferred switch type. The logger will work with normally closed switches, but battery life will be compromised.

**Open circuit input voltage:** Battery voltage; nominally 3.0 V

**Maximum input voltage:** Battery voltage + 0.3 V

**User connection:** 24 AWG, 2 leads: white (+), black (-)

Plot A not found or type unknown

## Temperature Measurement

**Measurement range:** -20° to 70°C (-4° to 158°F)

**Accuracy:**  $\pm 0.53^\circ\text{C}$  from 0° to 50°C ( $\pm 0.95^\circ\text{F}$  from 32° to 122°F), see Plot A. A solar radiation shield is required for accurate temperature measurements in sunlight.

**Resolution:** 0.14°C at 25°C (0.25°F at 77°F), see Plot A

**Drift:** Less than 0.1°C/year (0.2°F/year)

**Response time:** Airflow of 2 m/s (4.4 mph): 10 minutes, typical to 90%

## Logger

Plot B not found or type unknown

**Time accuracy:**  $\pm 1$  minute per month at 25°C (77°F), see Plot B

**Operating range:** -20° to 70°C (-4° to 158°F)

**Environmental rating:** NEMA 6 and IP67; suitable for deployment outdoors; not rated for use in direct sun

**Drop specification:** 1.5 m (5 ft) onto concrete

**NIST traceable certification:** Available for temperature only at additional charge; temperature range -20° to 70°C (-4° to 158°F)

**Battery:** CR-2032 3V lithium battery; 1 year typical use; deployments in extremely cold or hot temperatures, or logging intervals faster than one minute, may significantly reduce battery life

**Memory:** 64K bytes

**Materials:** Polypropylene case; stainless steel screws; Buna-N O-ring; PVC cable insulation

**Weight:** 50 g (1.7 oz.)

**Dimensions:** 71 x 33 x 23 mm (2.8 x 1.3 x 0.9 inches); 1.8 m (6 ft) cable

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