

UA-003-64

HOBO Pendant Event Data Logger

Measures rainfall to determine rainfall rates, times, and duration; for deployment with most standard tipping-bucket rain gauges.

Important Information

Requires HOBOWare software and either an Optic USB Base Station or a HOBO Waterproof Shuttle (U-DTW-1). HOBOWare Pro is required when using the HOBO Waterproof Shuttle. See compatible items below.



Compatible with
HOBOWare Software

Supported Measurements

Event, Rainfall, Temperature

Features

- Ideal for recording rainfall with tipping-bucket rain gauges
- Records tips or momentary contact closures and temperature
- Event-based data storage provides detailed data and efficient memory usage
- Stores over 16,000 tips (160 in. of rainfall with a 0.01 in. rain gauge)
- Includes scaling to inches, millimeters or other units

For a self-contained rainfall logger, see the HOBO RG3, a tipping-bucket rain gauge with integrated logger.

What's in the box

- HOBO UA-003-64 Pendant Event Data Logger
- Tie wraps
- Adhesive mount

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 5pm 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

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532

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 Ω

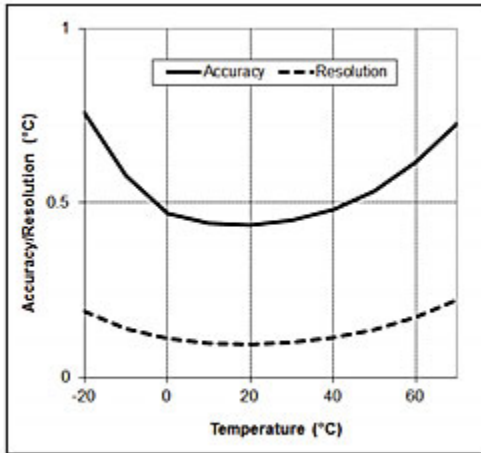
Edge detection: Falling edge, contact closure, or Schmitt-trigger buffer

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

Temperature Measurement

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

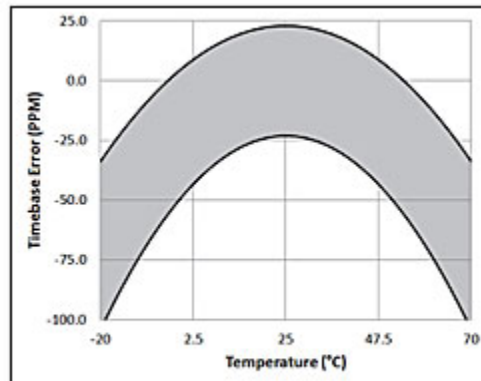
Accuracy: $\pm 0.53^{\circ}\text{C}$ from 0° to 50°C ($\pm 0.95^{\circ}\text{F}$ from 32° to 122°F), see Plot A. A solar radiation shield is required for accurate temperature measurements in sunlight.

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

Time accuracy: ± 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