



## HOBO<sup>®</sup> UA-001-64 Data Logger

### 64K Pendant Temperature/Alarm (Waterproof) Data Logger

A miniature, waterproof one-channel temperature data logger, this model is value-priced for short-term shipping applications or long-term deployment. Data logger alarm LEDs flash if temperatures have exceeded user-set levels and delay options, and provide visible verification that temperatures have been within the desired range throughout deployment. This 64K model stores approximately 52K of 10-bit temperature readings. For accurate temperature measurement in sunlight a solar radiation shield is required (RS1 Solar Radiation Shield, assembly required; M-RSA pre-assembled Solar Radiation Shield).



#### Supported Measurements:

Soil Temperature, Temperature and Water Temperature

#### Key Advantages:

- Low-cost temperature with alarm indication or light intensity
- Waterproof housing for wet or underwater use
- Data readout in less than 30 seconds via fast Optic USB interface

## HOBO UA-001-64 Data Logger Specifications

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

**Alarms:** High and low alarms can be configured for total amount of contiguous or non-contiguous time outside of user-defined limits between -20° and 70°C (-4° to 158°F)

**Accuracy:** ± 0.53°C from 0° to 50°C (± 0.95°F from 32° to 122°F), see Plot A in manual

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

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

**Environmental Rating:** Top end: NEMA 6, IP67; Sensor end: IP68

### Response Time

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

**Water:** 5 minutes, typical to 90%

**Time accuracy:** ± 1 minute per month at 25°C (77°F), see Plot B in manual

### Operating Range

**In water/ice:** -20° to 50°C (-4° to 122°F)

**In air:** -20° to 70°C (-4° to 158°F)

**Water depth rating:** 30 m from -20° to 20°C (100 ft from -4° to 68°F), see Plot C in manual

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

**Battery life:** 1 year typical use

**Battery Type:** CR2032

### Memory

**UA-001-08:** 8K bytes (approximately 6.5K sample and event readings)

**UA-001-64:** 64K bytes (approximately 52K sample and event readings)

**Materials:** Polypropylene case; stainless steel screws; Buna-N o-ring

**Weight:** 15.0 g (0.53 oz)

**Dimensions:** 5.8 x 3.3 x 2.3 (centimeters) and 2.3 x 1.3 x 0.9 (inches)

**Environmental Rating:** IP68

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