ONSET

HOBO® 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).

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).