



## Temperature (1,000 ft.) TidBit v2 Data Logger - UTBI-001



### Measures:

Temperature

### Features:

### Description:

The tiny TidBit v2 has 12-bit resolution and a precision sensor for  $\pm 0.2$  °C accuracy over a wide temperature range. The rugged TidBit is waterproof to 300m (1000 ft). Data readout is available in less than 30 seconds via the Optic USB interface. For accurate ambient air temperature measurements in sunlight, a solar radiation shield is required ([RS1 Solar Radiation Shield](#), assembly required; [M-RSA](#) pre-assembled Solar Radiation Shield).

### Features:

- Onset's smallest temperature data logger
- Waterproof to 300 meters (1,000 feet)
- Data readout in less than 30 seconds via fast Optic USB interface



Optical Interface for data transfer - [click to zoom](#)

### Detailed Specifications:

#### Temperature Sensor

Operation range:\*

-20° to 70°C (-4° to 158°F) in air;

maximum sustained temperature of 30°C (86°F) in water\*

Accuracy: 0.2°C over 0° to 50°C (0.36°F over 32° to 122°F)

Resolution: 0.02°C at 25°C (0.04°F at 77°F)

Response time: 5 minutes in water; 12 minutes in air moving 2 m/sec; 20 minutes in air moving 1 m/sec (typical to 90%)

Stability (drift): 0.1°C (0.18°F) per year

#### Logger

Real-time clock:  $\pm 1$  minute per month 0° to 50°C (32° to 122°F)

Battery: 3 Volt lithium, non-replaceable

Battery life (typical use): 5 years with 1 minute or greater logging interval

Memory (non-volatile): 64K bytes memory (approx. 42,000 12-bit temperature measurements)

Weight: 23 g (0.8 oz)

Dimensions: 3.0 × 4.1 × 1.7 cm (1.2 × 1.6 × 0.65 in.); mounting bail 4.6 mm (3/16 in.) diameter

Wetted materials: Epoxy case

Waterproof: To 305 m (1000 ft.)

Logging interval: Fixed-rate or multiple logging intervals, with up to 8 user-defined logging intervals and durations; logging intervals from 1 second to 18 hours. Refer to HOBOWare software manual.

Launch modes: Immediate start, delayed start

Offload modes: Offload while logging; stop and offload

Battery indication: Battery level can be viewed in status screen and optionally logged in datafile. Low battery indication in datafile.

NIST certificate: Available for additional charge

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

\* To guarantee accuracy, the TidBit v2 Temp must not be used in condensing environments and water temperatures higher than 30C

(86F) for more than eight cumulative weeks over the life of the logger. Frequent or prolonged exposure will lead to measurement drift and eventual failure.

---

---

---

---

**HOB0**<sup>®</sup> Data Loggers

---

---

