

## TidbiT<sup>®</sup> v2 Temp Logger

Small, durable logger for measuring water temperature

Onset's smallest data logger, the TidbiT v2, has 12-bit resolution and a precision sensor for  $\pm 0.2^{\circ}\text{C}$  accuracy over a wide temperature range. It is waterproof to 300 meters (1,000 feet) and can be used in a wide range of water temperature monitoring applications.

**Supported Measurements:** Temperature

### Key Advantages:

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

### Minimum System Requirements:



Software



Base Station\*



Coupler<sup>1</sup>



\*HOBO Base Station or HOBO Waterproof Shuttle required.

<sup>1</sup>Coupler included with HOBO Base Station or HOBO Waterproof Shuttle.

|                          |   |
|--------------------------|---|
| <b>Part number</b>       | <b>UTBI-001</b>   |
|                          | <b>Temperature Sensor</b>   |
| <b>Operation range</b>   | -20° to 70°C (-4° to 158°F) in air; maximum sustained temperature of 30°C (86°F) in water**             |
| <b>Accuracy</b>          | ± 0.21°C over 0° to 50°C (± 0.38°F over 32° to 122°F)   |
| <b>Resolution</b>        | 0.02°C at 25°C (0.04°F at 77°F)   |
| <b>Response time</b>     | 5 minutes in water; 12 minutes in air moving 2 m/sec; 20 minutes in air moving 1 m/sec (typical to 90%) |
| <b>Stability (drift)</b> | 0.1°C (0.18°F) per year   |
|                          | <b>Logger</b>   |
| <b>Real-time clock</b>   | ± 1 minute per month 0° to 50°C (32° to 122°F)  |
| <b>Battery</b>           | 3 Volt lithium, non-replaceable   |
| <b>Battery life</b>      | 5 years with 1 minute or greater logging interval   |
| <b>Memory</b>            | 42,000 measurements   |
| <b>Waterproof</b>        | To 305 m (1,000 ft)   |
| <b>Dimensions</b>        | 3.0 x 4.1 x 1.7 cm (1.2 x 1.6 x 0.68 in); mounting bail 4.6 mm (3/16 in) diameter hole                  |
| <b>CE compliant</b>      | Yes   |

\*\*To guarantee accuracy, the TidbiT v2 Temp must not be used in condensing environments and water temperatures higher than 30°C (86°F) for more than eight cumulative weeks over the life of the logger. Frequent or prolonged exposure will lead to measurement drift and eventual failure.

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