

underwater

StowAway[®] TidbiT[®]



Small size: approx.
30 mm wide x 41 mm tall x 17 mm
thick (1.2 x 1.6 x 0.65") and 23 gm

The StowAway TidbiT is Onset's smallest data logger and is widely used for monitoring temperatures in streams, lakes and oceans. Small size, rugged case and alarm indication also make this a popular choice for monitoring conditions during shipment.

Key Specifications

StowAway TidbiT: -5° to 37°C model:

Range†: -4° to 37°C (24° to 99°F)
Accuracy: ±0.2° at 20°C (±0.4° at 70°F)
Resolution: 0.16° at 20°C (0.29° at 70°F)

StowAway TidbiT: -20° to 50°C model:

Range†: -20° to 50°C (-4° to 122°F)
Accuracy: ±0.4° at 20°C (±0.8° at 70°F)
Resolution: 0.3°C at 20°C (0.6° at 70°F)

Capacity: 32,520 measurements

† Specified range is narrower than nominal range due to precision calibration process. Using TidbiT Temp loggers in wet environments (>90% RH) over 86°F (30°C) for extended periods of more than 8 weeks cumulative may lead to premature failure. For applications over 30°C, use the HOBOWater Temp Pro (pg 24).

Note: For Onset's lowest cost underwater temperature monitoring solutions, see Water Temp Pro (pg. 24), or use the HOBOWater H8 Temp (pg. 4) in combination with a waterproof submersible subcase (pg. 16)



HandCar[®] software compatible



Compliant with all relevant directives in the European Union (EU)

Features

Ideal for Underwater Applications up to 30°C:

Waterproof to 1000 feet
IR communications and Optic Shuttle for readout when wet—even underwater!
Completely sealed in epoxy
Two measurement ranges†: -4° to 37°C (24° to 99°F),
-20° to 50°C (-4° to 122°F)
±0.2° accuracy at 20°C (-5° to 37°C model)

Small Size and Alarm Indication:

Blinking LED shows if temperature goes out of user-determined limits

Reliable Performance:

Nonvolatile EEPROM memory retains data even if battery fails
5-year, non-replaceable battery (typical use*)
Blinking LED confirms operation
NIST-traceable temperature accuracy certificate available
Compliance certificate available

Easy to Use:

User-selectable sampling intervals: 0.5 seconds to 9 hours,
for recording times up to several years
Programmable start time/date
Triggered start on location with Optic Coupler or magnet
Multiple sampling with minimum, maximum or averaging
Uses optic communications through Optic Base Station™
for launch and readout (pg 29)
Readout and relaunch in the field with optional Optic Shuttle™;
full logger readout takes just 6 minutes
Mounting tab

Detailed Specifications

Time accuracy: ±1 minute per week at 20°C (68°F)
Memory modes: Stop when full, Wrap-around when full
Response time in water: 5 minutes (typical to 90%)
Response time in air moving
1m/second: 20 minutes

* 16 three-month deployments in water (35° to 80°F) with 4 minute or longer intervals (no multiple sampling)

Water Temp Pro & StowAway TidbiT Ordering

Description	Part No.
HOBOWater Temp Pro	
HOBOWater Temp Pro	H20-001
IR Basestation	BST-IR
Protective boot—black	BOOT-BLK
Protective boot—white	BOOT-WHT
Factory replacement battery service	
32K StowAway TidbiT	
(-5° to 37°C)	TBI32-05+37
(-20° to 50°C)	TBI32-20+50
Optic Base Station for TidbiT	DSA
Optic Shuttle for TidbiT	DTA-128B
Software	
HandCar 1.1 for Palm™ handhelds	HC1.1
BoxCar Pro 4.3 Starter Kit for Water Temp Pro or TidbiT (Windows)	BCP4.3-DL
BoxCar 3.7 Starter Kit for TidbiT (Windows)	BC3.7-DL

Note: A BoxCar Pro Starter Kit and IR Base Station are required to operate the HOBOWater Temp Pro. A BoxCar Pro 4.3 or BoxCar 3.7 starter kit and an Optic Base Station are required to operate the TidbiT loggers. Each starter kit includes software, computer interface cable and software manual. The Optic Base Station includes an Optic Base Station, Optic Coupler and TidbiT Coupler. Using HandCar with TidbiT requires Palm to logger cable with Optic Base Station. Use with USB port requires USB-Serial Adapter and BoxCar Pro 4.3+.