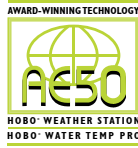


underwater

HOBO® Water Temp Pro



Size/Weight: 114 x 30 mm
(4.5" X 1.19") with 6.4 mm
(0.25") hole in mounting bail
42 grams (1.5 oz)

The durable HOBO Water Temp Pro* provides 12-bit resolution and precision sensors for $\pm 0.2^{\circ}\text{C}$ accuracy over a wide temperature range. A temperature-compensated real time clock provides better than ± 1 minute per month time accuracy. Designed with a durable streamlined case for extended deployment in water up to 50°C , the Water Temp Pro is equipped with an IR interface for data offload in the field, even when the logger is wet.

Key Specifications

Measurement Range: 0° to 50°C (32°F to 122°F) in water (nonfreezing); -20°C to 70°C (-4°F to 158°F) in air

Waterproof: To 30 m (100 ft)

Accuracy: $\pm 0.2^{\circ}\text{C}$ at 0 to 50°C ($\pm 0.36^{\circ}\text{F}$ at 32° to 122°F)

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

Drift: Negligible over life of logger

Time accuracy: Better than ± 1 minute per month

Capacity: 21,580 measurements



HandCar® software compatible



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

Features

Accurate:

12-bit resolution and precision sensor for $\pm 0.2^{\circ}\text{C}$ accuracy at 0° to 50°C ($\pm 0.36^{\circ}\text{F}$ accuracy at 32°F to 122°F). Includes a NIST-traceable accuracy certificate at room temperature. Real-time clock for better than ± 1 minute per month time accuracy.

Easy to Use:

High-speed infrared (IR) interface offloads full logger <30 seconds
Programmable start time/date
User-selectable sampling interval: 1 second to 9 hours
Uses popular BoxCar® Pro 4.3+ for system launch and data retrieval
Readout and relaunch in the field with the Palm™ handheld's IR port using HandCar™ 1.1

Reliable:

Factory-replaceable battery lasts 6 years (typical); temperature extremes will reduce battery life
Offload data, check logger and battery status while logging using HandCar™ or BoxCar Pro
Non-volatile EEPROM memory retains measurements even if batteries fail
Blinking LED confirms operation with option to suppress signal during logging
Rugged, streamlined case design withstands years of use in stream conditions
Slightly positive buoyancy, so it will float if inadvertently dropped in water
Rated for use up to 50°C in water, 70°C in air
The dark gray case blends in, minimizing chances of tampering
Optional protective boot for high water flow, flooding, or conditions with debris

Detailed Specifications

Response Time: 5 minutes in water, 12 minutes in air moving 2 m/sec, typical to 90%

Memory: 32 kilobytes total non-volatile EEPROM memory

Memory modes: Stop when full or wrap-around when full

Data offload: Readout full logger in < 30 seconds while logging or when stopped

Buoyancy: +13 grams (0.5 oz) (fresh water at 25°C);

+17 grams (0.6 oz) with optional boot

Battery : One 3.6 V Lithium, factory replaceable ONLY

Battery Life: 6 years typical, temperature extremes reduce battery life

Drop proof to 1.5 m (5')

Note: NIST-traceable certification at additional temperature points is also available through Onset at additional cost.

** The HOBO Water Temp Pro received an AE50 award for product innovation from the American Society of Agricultural Engineer's Resource magazine.*

IR Basestation for HOBO® Water Temp Pro

Operating Range: 0° to 40°C
(32° to 104°F) 0 to 95% RH
Size/Weight: 3.2 x 6.4 x 1.5 cm
(1.3 x 2.5 x 0.6 in.); 54 g (2.0 oz)



The Infrared (IR) Basestation is required for communications between the HOBO Water Temp Pro and the PC. Simply place the logger 4 to 5 inches away from an IR Basestation (connected to a PC) within the 30° angle of view to read out the Water Temp Pro. The IR Basestation requires a 9-pin serial port in the PC. For use with USB port, see USB-to-Serial Adapter (pg 31). The Water Temp Pro is not compatible with IR ports on PCs or laptops.

Note: The IR Basestation is not waterproof.

HOBO Water Temp Pro Protective Boot



Protective boot shown installed on a HOBO Water Temp Pro.

The optional (thermoplastic elastomer) boot provides cushioning for use in harsh conditions—offered in black to minimize visibility underwater or white for minimum solar radiation absorption.