

U22-001

HOBO Water Temperature Pro v2 Data Logger

Water Temperature (400 ft.)

A durable water temperature data logger with 12-bit resolution; for depths up to 400 feet.

Important Information

Requires HOBOWare software and either an Optic USB Base Station or HOBO Waterproof Shuttle (U-DTW-1). HOBOWare Pro is required when using the HOBO Waterproof Shuttle. See compatible items below.



Compatible with
HOBOWare® Software

Supported Measurements

Temperature, Water Temperature

Features

- Research-grade measurements at an affordable price
- Waterproof to 120 meters (400 feet)
- Data readout in less than 30 seconds via fast Optic USB interface
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing, and analysis

What's in the box

- HOBO U22-001 Water Temp Pro V2
- Communications window protective cap



HOBO Water Temperature Pro v2 Data Logger (U22-001) Specifications

Operation range†	-40° to 70°C (-40° to 158°F) in air; maximum sustained temperature of 50°C (122°F) in water
Accuracy	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)
Resolution	0.02°C at 25°C (0.04°F at 77°F)
Response time	(90%) 5 minutes in water; 12 minutes in air moving 2 m/sec (typical)
Stability (drift)	0.1°C (0.18°F) per year
Real-time clock	± 1 minute per month 0° to 50°C (32° to 122°F)
Battery	2/3 AA, 3.6 Volt Lithium, non-replaceable
Battery life (typical use)	6 years with 1 minute or greater logging interval
Memory (non-volatile)	64K bytes memory (approx. 42,000 12-bit temperature measurements)
Weight	42 g (1.5 oz)
Dimensions	3.0 cm (1.19 in.) maximum diameter, 11.4 cm (4.5 in.) length; mounting hole 6.3 mm (0.25 inches) diameter
Wetted materials	Polypropylene case, EPDM® o-rings, stainless steel retaining ring
Buoyancy (fresh water)	+13 g (0.5 oz.) in fresh water at 25°C (77°F); +17 g (0.6 oz.) with optional boot
Waterproof	To 120 m (400 ft.)
Shock/drop	1.5 m (5 ft.) drop at 0°C to 70°C (32°F to 150°F)
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 and delayed start
Offload modes	Offload while logging; stop and offload
Battery indication	Battery voltage can be viewed in status screen and optionally logged in datafile. Low battery indication in datafile.
NIST certificate available	For additional charge
Environmental Rating	IP68

IMPORTANT

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The plastic case will become brittle at temperatures lower than -20°C. If the logger is deployed in a location where the temperature drops below -20°C, make sure the logger remains stationary and is not pulled on or struck. Return the logger to above -20°C before handling.