

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

### Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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

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

### IMPORTANT

#### †IMPORTANT

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.