



HOBO Water Level Data Logger Deluxe Kit (0-30m)

Product Images



Short Description

Combining high accuracy water level measurements with out-of-the-box convenience, this money-saving kit includes everything needed to start logging right away. It is ideal for monitoring water levels and temperatures in wells, streams, lakes and freshwater wetlands, as well as barometric pressure.

Description

Combining high accuracy water level measurements with out-of-the-box convenience, this money-saving kit includes everything needed to start logging right away. It is ideal for monitoring water levels and temperatures in wells, streams, lakes and freshwater wetlands, as well as barometric pressure.

This kit includes:

- [U20-001-02 HOB0 logger \(100ft range\)](#)
- [U-DTW-1 HOB0 waterproof shuttle](#) with 5 interchangeable couplers
- [HOB0ware Pro software](#).

Like other HOB0 Water Level Loggers, the 30-foot version offers exceptional value and ease-of-use, with no cumbersome vent tubes or desiccants to maintain.

Key Features

- Lightning protection - no long signal wires, and electronics are shielded in stainless steel housing
- HOB0ware Pro software provides easy conversion to accurate water level reading, fully compensated for barometric pressure, temperature, and water density (use barometric pressure data from nearby weather station)
- Multiple-rate sampling allows faster sampling at critical times such as when pumping starts or stops.
- Available in four depth ranges
- Ideal for use in wells, streams, lakes, wetlands and tidal areas
- No-vent-tube design for easy reliable deployment
- Durable ceramic pressure sensor.

Additional Information

Country of Manufacture	United States
Explanation	<p>Specifications</p> <p>Pressure Sensor</p> <p>Operation range: 0 to 400 kPa (0 to 58 psia); approximately 0 to 30.6 m (0 to 100 ft) of water depth at sea level, or 0 to 33.6 m (0 to 111 ft) of water at 3,000 m (10,000 ft) of altitude</p> <p>Factory calibrated range: 69 to 400 kPa (10 to 58 psia), 0° to 40°C (32° to 104°F)</p> <p>Burst pressure: 500 kPa (72.5 psia) or 40.8 m (134 ft) depth</p> <p>Water level accuracy*: Typical error - 0.05% FS, 1.5 cm (0.05 ft) water</p> <p>Maximum error: - 0.1% FS, 3 cm (0.1 ft) water</p> <p>Raw pressure accuracy**: 0.3% FS, 1.20 kPa (0.17 psi) maximum error</p> <p>Resolution: < 0.04 kPa (0.006 psi), 0.41 cm (0.013 ft) water</p> <p>Pressure response time 90%: < 1 second</p> <p>Thermal response time (90%)†: Approximately 10 minutes in water to achieve full temperature compensation of the pressure sensor</p> <p>* With accurate reference water level measurement and Barometric Compensation Assistant data</p> <p>** Absolute pressure sensor accuracy includes all pressure drift, temperature, and hysteresis-induced errors</p> <p>† Maximum error due to rapid thermal changes is approximately 0.5%.</p> <p>Temperature Sensor</p> <p>Operation range: -20° to 50°C (-4° to 122°F)</p> <p>Accuracy: 0.37°C at 20°C (0.67°F at 68°F)</p> <p>Resolution: 0.1°C at 20°C (0.18°F at 68°F) (10-bit)</p> <p>Response time (90%): 3.5 minutes in water (typical)</p> <p>Stability (drift): 0.1°C (0.18°F) per year</p> <p>Logger</p> <p>Real-time clock: ± 1 minute per month 0° to 50°C (32° to 122°F)</p> <p>Battery: 2/3 AA, 3.6 Volt Lithium, factory-replaceable</p> <p>Battery life (typical use): 5 years with 1 minute or greater logging interval</p> <p>Memory (non-volatile): 64K bytes memory (approx. 21,700 pressure and temperature samples)</p> <p>Dimensions: 2.46 cm (0.97 inches) diameter, 15 cm (5.9 inches) length; mounting hole 6.3 mm (0.25 inches) diameter</p> <p>Weight: Approximately 210 g (7.4 oz)</p> <p>Wetted materials: 316 stainless steel, Viton® o-rings, acetyl cap, ceramic sensor</p> <p>Shock/drop: Logger is sensitive to shocks. Handle with care and avoid any impact. Always use proper packaging when shipping the logger.</p> <p>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.</p> <p>Launch modes: Immediate start and delayed start</p> <p>Offload modes: Offload while logging; stop and offload</p> <p>Battery indication: Battery voltage can be viewed in status screen and optionally logged in datafile. Low battery indication in datafile.</p> <p>Environmental Rating: IP68</p> <p>The CE Marking identifies this product as complying with the relevant directives in the European Union (EU).</p>
Contents	<p>This kit includes:</p> <ul style="list-style-type: none">• U20-001-02 HOBOW logger (100ft range)• U20-001-04 HOBOW logger (13ft range) for Barometric Pressure• U-DTW-1 HOBOW waterproof shuttle with 5 interchangeable couplers• U20-CASE-1 carrying case• HOBOWare Pro software.
Ideal For	Professional
Brand	HOBOW
Channel(s)	2
HOBOW Product Series	U20
Typical applications	Environmental (Outdoor), Field Research, Water Quality
Measurements	Barometric Pressure, Pressure, Temperature, Water Level

Additional Options

Well Cap for Mounting HOBO Loggers in Wells	WELL-CAP-01
---	-------------