

KIT-S-U20-02

HOBOb Water Level Data Logger Starter Kit (100')

Combining high accuracy water level measurements with out-of-the-box convenience, this money-saving kit includes everything needed to start logging right away.



Supported Measurements

Absolute Pressure, Barometric Pressure, Water Level, Water Temperature

Features

- Lightning protection; no long signal wires, and electronics are shielded in stainless-steel housing
- HOBObware 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

Contact Us

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

- Email 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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Bourne, MA 02532

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

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

HOBO Water Level Data Logger Starter Kit (100') (KIT-S-U20-02) Specifications

Pressure Sensor

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

Factory calibrated range: 69 to 400 kPa (10 to 58 psia), 0° to 40°C (32° to 104°F)

Burst pressure: 500 kPa (72.5 psia) or 40.8 m (134 ft) depth

Water level accuracy*: Typical error - 0.05% FS, 1.5 cm (0.05 ft) water

Maximum error: - 0.1% FS, 3 cm (0.1 ft) water

Raw pressure accuracy:** 0.3% FS, 1.20 kPa (0.17 psi) maximum error

Resolution: < 0.04 kPa (0.006 psi), 0.41 cm (0.013 ft) water

Pressure response time 90%: < 1 second

Thermal response time (90%)†: Approximately 10 minutes in water to achieve full temperature compensation of the pressure sensor

* With accurate reference water level measurement and Barometric Compensation Assistant data

** Absolute pressure sensor accuracy includes all pressure drift, temperature, and hysteresis-induced errors

† Maximum error due to rapid thermal changes is approximately 0.5%.

Temperature Sensor

Operation range: -20° to 50°C (-4° to 122°F)

Accuracy: 0.37°C at 20°C (0.67°F at 68°F)

Resolution: 0.1°C at 20°C (0.18°F at 68°F) (10-bit)

Response time (90%): 3.5 minutes in water (typical)

Stability (drift): 0.1°C (0.18°F) per year

Logger

Real-time clock: ± 1 minute per month 0° to 50°C (32° to 122°F)

Battery: 2/3 AA, 3.6 Volt Lithium, factory-replaceable

Battery life (typical use): 5 years with 1 minute or greater logging interval

Memory (non-volatile): 64K bytes memory (approx. 21,700 pressure and temperature samples)

Dimensions: 2.46 cm (0.97 inches) diameter, 15 cm (5.9 inches) length; mounting hole 6.3 mm (0.25 inches) diameter

Weight: Approximately 210 g (7.4 oz)

Wetted materials: 316 stainless steel, Viton® o-rings, acetyl cap, ceramic sensor

Shock/drop: Logger is sensitive to shocks. Handle with care and avoid any impact. Always use proper packaging when shipping the logger.

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.

Environmental Rating: IP68

The CE Marking identifies this product as complying with the relevant directives in the European Union (EU).