

HOBO Water Level Data Logger Deluxe 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
- HOBOware Pro software provides easy conversion to accurate water level reading, fully compensated for barometric pressure, temperature, and water density
- 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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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 Deluxe Kit (100') (KIT-D-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	< 1 second
Thermal response time (90%)†	Approximately 10 minutes in water to achieve full temperature compensation of the pressure sensor

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), see Plot A
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

Notices

* 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%