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KIT-D-U20-04

HOBO Water Level Data Logger Deluxe Kit (13')

Combining high accuracy water level measurements with out-ofthe-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

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

Onset Computer Corporation 470 MacArthur Boulevard Bourne, MA 02532

HOBO Water Level Data Logger Deluxe Kit (13') (KIT-D-U20-04) Specifications

Pressure Sensor

Operation range:0 to 145 kPa (0 to 21 psia); approximately 0 to 4 m (0 to 13 ft) of water depth at sea level, or 0 to 7 m (0 to 23 ft) of water at 3,000 m (10,000 ft) of altitudeFactory calibrated range:69 to 145 kPa (10 to 21 psia), 0° to 40°C (32° to 104°F)Burst pressure:310 kPa (45 psia) or 18 m (60 ft) depthWater level accuracy:Typical error - 0.075% FS, 0.3 cm (0.01 ft) waterMaximum error:- 0.15% FS, 0.6 cm (0.02 ft) waterRaw pressure accuracy:** 0.3% FS, 0.43 kPa (0.063 psi) maximum errorResolution:< 0.014 kPa (0.002 psi), 0.14 cm (0.005 ft) water</td>Pressure response time 90%:< 1 second</td>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)

 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).

* 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%