



**Three Deluxe Kits containing all that is required to commence water level measurements**

**Kits Contain:**

- U20 HOBO logger for water level
- U20 HOBO logger for Barometric Pressure
- U-DTW-1 HOBO waterproof shuttle
- U20-CASE-1 carrying case
- BHW-PC HOBOWare Pro software



## HOBO KIT-D-U20 Water Level Starter Kits - Deluxe

**Model: KIT-D-U20-01**

Range: 0 to 207 kPa (0 to 30 psia); approximately 0 to 9 m of water depth at sea level, or 0 to 12 m of water at 3,000 m of altitude

Factory calibrated range: 69 to 207 kPa (10 to 30 psia), 0° to 40°C

Burst pressure: 310 kPa (45 psia) or 18 m depth

Water level accuracy: Typical error - 0.05% FS, 0.5 cm water

Maximum error: - 0.1% FS, 1.0 cm water

Raw pressure accuracy: 0.3% FS, 0.62 kPa (0.09 psi) maximum error

Resolution: < 0.02 kPa (0.003 psi), 0.21 cm water

**Model: KIT-D-U20-02**

Operation range: 0 to 400 kPa (0 to 58 psia); approximately 0 to 30.6 m of water depth at sea level, or 0 to 33.6 m of water at 3,000 m of altitude

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

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

Water level accuracy\*: Typical error - 0.05% FS, 1.5 cm water

Maximum error: - 0.1% FS, 3 cm 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 water

**Model: KIT-D-U20-04**

Operation range: 0 to 145 kPa (0 to 21 psia); approximately 0 to 4 m of water depth at sea level, or 0 to 7 m of water at 3,000 m of altitude

Factory calibrated range: 69 to 145 kPa (10 to 21 psia), 0° to 40°C

Burst pressure: 310 kPa (45 psia) or 18 m depth

Water level accuracy\*: Typical error - 0.075% FS, 0.3 cm water

Maximum error: - 0.15% FS, 0.6 cm water

Raw pressure accuracy\*\*: 0.3% FS, 0.43 kPa (0.063 psi) maximum error

Resolution: < 0.014 kPa (0.002 psi), 0.14 cm water

**Temperature Sensor**

Operation range / Resolution: -20° to 50°C (Accuracy: 0.37°C at 20°C) / 0.1°C at 20°C (10-bit)

Stability / Response time (90%): 3.5 minutes in water (typical) / 0.1°C per year

Thermal response: Approx 10 mins (90%) in water; Pressure response time: 90% < 1 second

**Logger**

Real-time clock: ± 1 minute per month 0° to 50°C

Battery: 2/3 AA, 3.6 Volt Lithium (factory-replaceable), 5 year life with 1 min or greater logging interval

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

Dimensions / Weight: 2.46 cm diameter, 15 cm length; mounting hole 6.3 mm diameter / 210g

Shock/drop :Logger is sensitive to shocks. Handle with care.

Logging interval: Fixed-rate or multiple logging intervals, up to 8 user-defined logging intervals and durations; logging intervals from 1 second to 18 hours.

Launch / Offload modes: Immediate start and delayed start / Offload while logging; stop and offload

Battery Voltage: Viewed in status screen and optionally logged in datafile. Low battery indication in datafile.