

HOBO® Water Level Loggers

- Available in 4 depth ranges
- Ideal for use in wells, streams, lakes, wetlands and tidal areas
- No-vent-tube design for easy and reliable deployment
- Available in stainless and titanium* versions
- Durable ceramic pressure sensor

Memory: 21,700 combined pressure and temperature measurements
 Sample rate: 1 second to 18 hours, fixed- or multiple-rate
 — up to 8 user-defined sampling intervals
 Battery life: 5 years (typical) — factory-replaceable



HOBO Water Level Logger

#U20-001-0x

Stainless

Titanium

Size/Weight:

2.46 cm diameter x 15 cm (0.97 x 5.9 in)

hole in mounting bail

6.3 mm (0.25 in)

Stainless: 210 g (7.4 oz)

Titanium: 140 g (4.8 oz)



Water Level Specifications

Range**	Factory Calibrated Range (0 to 40°C; 32 to 104°F)	Water Level Accuracy (Typical Error)***	Resolution	Burst Pressure**	Model
0-4 m (0-13 ft) 0-145 kPa (0-21 psia)	69 to 145 kPa (10-21 psia)	±0.3 cm (0.01 ft) (±0.075% FS)	0.14 cm (0.005 ft)	310 kPa (45 psia) 18 m (60 ft) depth	U20-001-04 U20-001-04-Ti
0-9 m (0-30 ft) 0-207 kPa (0-30 psia)	69 to 207 kPa (10-30 psia)	±0.5 cm (0.015 ft) (±0.05% FS)	0.21 cm (0.007 ft)	310 kPa (45 psia) 18 m (60 ft) depth	U20-001-01 U20-001-01-Ti
0-30 m (0-100 ft) 0-400 kPa (0-58 psia)	69 to 400 kPa (10-58 psia)	±1.5 cm (0.05 ft) (±0.05% FS)	0.41 cm (0.013 ft)	500 kPa (72.5 psia) 40.8 m (134 ft) depth	U20-001-02
0-76 m (0-250 ft) 0-850 kPa (0-123 psia)	69 to 850 kPa (10-123 psia)	±3.8 cm (0.125 ft) (±0.05% FS)	0.87 cm (0.028 ft)	1200 kPa (174 psia) 112 m (368 ft) depth	U20-001-03

Temperature Specifications (all models)

Model	Range	Accuracy	Resolution (10-bit)	Response Time
All models	-20° to 50°C (-4° to 122°F)	±0.37° @ 20°C (0.67° @ 68°F) ±0.5° over -5° to 50°C (±0.9° over 23° to 122°F)	0.1° @ 20°C (0.18° @ 68°F) 0.5° over -5° to 50°C (0.9° over 23° to 122°F)	3.5 minutes (to 90% in water)

* Titanium version recommended for saltwater deployment

** Depth range specifications are nominal values based on using the logger at sea level

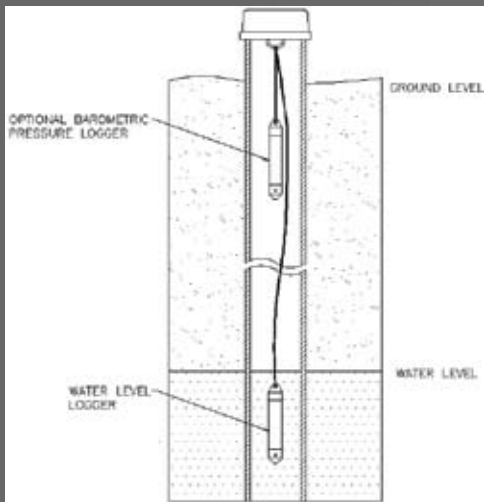
*** Using reference water level measurement and Barometric Compensation Assistant data

HOBO® Water Level Loggers

Additional Features

- Use either an extra HOBO Water Level Logger, a HOBO Weather Station, or import ASCII barometric data for barometric compensation when needed (typically one barometric data set can be used with all water level loggers in that area)
- Includes calibration certificate of accuracy in accordance with NIST-traceable standards at three pressure points distributed throughout the range
- Fully sealed housing ensures many years of trouble-free operation
- Suitable for deployment in water or air; case materials resistant to fuels, solvents and lubricants

NIST-Traceable temperature accuracy certification service available



Simple wireline mounting makes it easy to hang logger in wells, hidden from vandals, with no vent cables to worry about.



HOBOWare® software provides easy conversion to accurate water level readings, fully compensated for barometric pressure, temperature and water density.

Water Level Logger Carrying Case

#U20-CASE-1

Size/Weight:
35.6 x 26.7 x 10.2 cm
(14 x 10.5 x 4 in)
0.7 kg (1.5 lbs)



Optional carrying case with foam inserts holds four HOBO Water Level Loggers and an Optic USB Base Station. (Loggers and Base Station sold separately)

Complete system requires logger, software, and base station

HOBO Water Level Ordering Information

Description	Part No.
HOBO Water Level 0-4 m/13 ft	U20-001-04
HOBO Water Level 0-4 m/13 ft -Titanium	U20-001-04-Ti
HOBO Water Level 0-9 m/30 ft	U20-001-01
HOBO Water Level 0-9 m/30 ft -Titanium	U20-001-01-Ti
HOBO Water Level 0-30 m/100 ft	U20-001-02
HOBO Water Level 0-76 m/250 ft	U20-001-03

Software and Communications

HOBOware Pro Software (Windows®)	BHW-PC
HOBOware Pro Software (Mac)	BHW-MAC
Optic USB Base Station* with Couplers	BASE-U-4

Optional Communications and Accessories

HOBO Waterproof Shuttle with Couplers	U-DTW-1
HOBO U-Shuttle (requires Base Station)	U-DT-1
Water Level Logger Carrying Case	U20-CASE-1
1/16 in. Teflon-coated stainless steel cable:	
50 feet	CABLE-1-50
300 feet	CABLE-1-300
Crimp Sleeve for cables (12-pack)	CABLE-1-CRIMP

** HOBO Waterproof Shuttle can also be used as a Base Station*

Patented technology (U.S. Patent 6,826,664)