

Call our friendly team on 01243 558280

EnviroMonitors Ford Lane Business Park Ford West Sussex BN18 OUZ, UK www.enviromonitors.co.u



HOBO U20-001-04 Fresh Water Level Data logger (0-4m)

Product Images



Short Description

An accurate, low cost data logger designed to record water level fully compensated for barometric pressure in wells, streams, lakes etc. Range is from 0-4m/0-13 feet.

Description

An accurate, low cost data logger designed to record water level, fully compensated for barometric pressure in wells, streams, lakes etc. Range is from 0-4m/0-13 feet.

Features:

- The Water Level logger can also be used in air to record barometric pressure.
- Use the Titanium models in salt water.
- Download to the Waterproof Shuttle or Base Station.
- The no-vent design eliminates installation/maintenance issues and errors associated with vent tubes, desiccant maintenance, water ingress etc.

Measures Absolute Pressure, Barometric Pressure, Temperature and Water Level.

IMPORTANT Requires HOBOware Pro software and either a U-DTW-1 Waterproof Shuttle or the Base-U-4 Optic USB Base Station for configuration and data offload. See Connectivity Options below.

Additional Information

Country of Manufacture

```
United States
```

	United States	
	Pressure and Wa	ater Level Measurements U20-001-04 and U20-001-04-Ti
	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 altitude
	Factory 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) depth
	Water Level Accuracy*	Typical error: ±0.075% FS, 0.3 cm (0.01 ft) water Maximum error: ±0.15% FS, 0.6 cm (0.02 ft) 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 (0.005 ft) water
	Pressure Response Time (90%)***	<1 second; measurement accuracy also depends on temperature response time
	Temperature M	easurements (All Models)
	Operation Range	-20° to 50°C (-4° to 122°F)
	Accuracy	±0.44°C from 0° to 50°C (±0.79°F from 32° to 122°F), see Plot A in manual
	Resolution	0.10°C at 25°C (0.18°F at 77°F), see Plot A in manual
	Response Time (90%)	5 minutes in water (typical)
	Stability (Drift)	0.1°C (0.18°F) per year
	Logger	
	Real-time Clock	\pm 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)
	Weight	Stainless steel models: approximately 210 g (7.4 oz) Titanium models: approximately 140 g (4.8 oz)
	Dimensions	2.46 cm (0.97 inches) diameter, 15 cm (5.9 inches) length; mounting hole 6.3 mm (0.25 inches) diameter
	Wetted Materials	316 stainless steel, Viton® o-rings, acetyl cap, ceramic sensor
	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 the 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 all relevant directives in the European Union (EU).
	* Water Level Accuracy: With accurate reference water level measurement, known w data, and a stable temperature environment. ** Raw Pressure Accuracy: Absolute pressure sensor accuracy includes all sensor dri *** Changes in Temperature: Allow 10 minutes in water to achieve full temperature of to rapid thermal changes is approximately 0.5%.	
	Professional	
	Onset HOBO	
	2	
	U20	tdoor) Field Research Water Outling
		tdoor), Field Research, Water Quality re, Pressure, Temperature, Water Level
	Saromedic Fressu	c, ressere, remperature, water Lever

Additional Options

Connectivity Options	HOBO Universal Optic USB Base Station Base-U-4 (includes Couplers)
	Waterproof Optic Data Shuttle U-DTW-1 (requires HOBOWare Pro)
HOBOware Pro Software Options	HOBOware Pro on USB Drive (USB Cable Included)
	HOBOware Pro on CD (USB Cable Included)
	HOBOware Pro - Download Only (USB Cable NOT Included)
Well Cap for Mounting HOBO Loggers in Wells	WELL-CAP-01