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

Product Images



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

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United States
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Pressi	sure and Wat	er Level Measurements U20-001-04 and U20-001-04-Ti				
Opera 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				
Facto Calibr Range	brated	69 to 145 kPa (10 to 21 psia), 0° to 40°C (32° to 104°F)				
Burst	st Pressure	310 kPa (45 psia) or 18 m (60 ft) depth				
Water Accur	er Level uracy*	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 P Accur	Pressure uracy**	±0.3% FS, 0.43 kPa (0.063 psi) maximum error				
Resolu	olution	<0.014 kPa (0.002 psi), 0.14 cm (0.005 ft) water				
Press Respo Time	nonse	<1 second; measurement accuracy also depends on temperature response time				
Temp	perature Mea	asurements (All Models)				
Opera Range	ration ge	-20° to 50°C (-4° to 122°F)				
Accur	uracy	±0.44°C from 0° to 50°C (±0.79°F from 32° to 122°F), see Plot A in manual				
Resolu	olution	0.10°C at 25°C (0.18°F at 77°F), see Plot A in manual				
Respo Time	ponse e (90%)	5 minutes in water (typical)				
Stabil (Drift)	oility ft)	0.1°C (0.18°F) per year				
Logge	ger					
Real-t Clock		± 1 minute per month 0° to 50°C (32° to 122°F)				
Batte	tery	2/3 AA, 3.6 Volt lithium, factory-replaceable				
Batte (Typic	tery Life vical Use)	5 years with 1 minute or greater logging interval				
Memo volati		64K bytes memory (approx. 21,700 pressure and temperature samples)				
Weigh	ght	Stainless steel models: approximately 210 g (7.4 oz) Titanium models: approximately 140 g (4.8 oz)				
Dimer	ensions	2.46 cm (0.97 inches) diameter, 15 cm (5.9 inches) length; mounting hole 6.3 mm (0.25 inches) diameter				
Wette Mater		316 stainless steel, Viton® o-rings, acetyl cap, ceramic sensor				
Loggi Interv	ging rval	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.				
Launc	nch Modes	Immediate start and delayed start				
Offloa	oad Modes	Offload while logging; stop and offload				
Batter Indica	cation	Battery voltage can be viewed in status screen and optionally logged in datafile. Low battery indication in datafile.				
Enviro Ratinį	ironmental ng	IP68				
×		The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).				
data, an ** Raw *** Cha to rapid	and a stable ter w Pressure Acc hanges in Temp id thermal cha	acy: With accurate reference water level measurement, known mperature environment. urracy: Absolute pressure sensor accuracy includes all sensor d perature: Allow 10 minutes in water to achieve full temperatur inges is approximately 0.5%.	rift, temperature, and hyst	eresis-i	nduceo	nduced errors
Professi						
Onset H	HOBO					
2						
U20						
		door), Field Research, Water Quality				
Barome	netric Pressure	e, Pressure, Temperature, Water Level				

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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