ONSET

HOBO® U12-015-03 Data Logger

Deep Ocean Temperature Data Logger

The HOBO U12 Deep Ocean Water Temperature Data Logger is a single-channel water temperature logger with 12-bit resolution that can record up to 43,000 measurements. With its robust titanium housing, this logger is designed to withstand ocean extremes of depth and temperature.

Supported Measurements:

Temperature and Water Temperature

Key Advantages:

- 11,000m depth rating (36,080 ft)
- Extended temperature range:- -40 to 125C
- Titanium housing for use in saltwater
- Fast readout via direct USB interface
- Compatible with HOBOware and HOBOware Pro software for logger setup, graphing and analysis

HOBO U12-015-03 Data Logger Specifications

Measurement Range:	-40° to 125°C (-40° to 257°F)
Accuracy:	±0.22°C at 25°C (±0.4°F at 77°F), see Plot A in manual
Resolution:	0.025°C at 25°C (0.045°F at 77°F), see Plot A in manual
Drift:	0.05°C/year + 0.1°C/1000 hrs above 100°C (0.09°F + 0.2°F/1000 hrs above 212°F
Response Time in Water:	< 4 minutes, typical to 90%
Time Accuracy:	±2 minute per month at 25°C (77°F), see Plot B in manual
Operating Environment:	Air, water, steam, 0 to 100% RH
Operating Temperature:	Logging: -40° to 125°C (-40° to 257°F) Launch/Readout: 0° to 50°C (32° to 122°F), per USB specification
Battery Life:	3 years typical use, factory replaceable
Memory:	64K bytes (43,000 12-bit measurements)
Construction:	Titanium with O-ring seals and backup rings
Weight:	105 g (3.7 oz)
Size:	114 x 20.6 mm diameter (4.5 x 0.81 in. diameter)
Depth Rating:	11,000 m (36,080 ft)
Pressure Rating:	1110 bar (16,000 psi)
Vibration Rating:	Navy spec: NAVMAT P-9492
NIST Certificate:	Available for additional charge; temperature range -30° to 120°C (-22° to 248°F)
Environmental Rating:	IP68
	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).

Contact Us

Sales (8am to 5pm ET, Monday through Friday)
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▶ In U.S. toll free 1-800-564-4377
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Technical Support (8am to 6pm ET, Monday through Friday)
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