



# HOBO UA-002-64 Pendant Waterproof Temperature & Light Intensity Logger (64K Byte Memory)

## Product Images





## Short Description

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HOBO Pendant loggers are miniature, water resistant, low cost units measuring temperature and light intensity for use in a wide range of applications including environmental, underwater and product monitoring.

## Description

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This miniature data logger can record temperature and relative light levels. Complete with waterproof casing, this product is designed for indoor, outdoor, and underwater deployment. This model can store approximately 52,000 measurements of 10-bit readings.

With 64K memory capacity, this Pendant logger can be used for short term transport monitoring or year-long deployment. For accurate temperature measurement in sunlight, use with a solar radiation shield such as the [HOBO RS1](#). Note that using a solar radiation shield prevents the use of the light sensor.

There are two ways to launch the data logger and offload the data (see Connectivity Options below):

- Using an Optic Base Station with USB interface, and [HOBOWare \(FREE\)](#) (Windows/Mac) software.

- Via a Shuttle and HOBOWare Pro software. The advantage of this method is that you can launch and offload multiple pendants using the shuttle without the need to take your laptop/PC to each pendant. This is particularly useful for field research.

# Additional Information

Country of Manufacture	United States
Explanation	<p><b>Measurement Range</b> <b>Temperature:</b> -20° to 70°C (-4° to 158°F) <b>Light:</b> 0 to 320,000 lux (0 to 30,000 lumens/ft²)</p> <p><b>Accuracy</b> <b>Temperature:</b> ± 0.53°C from 0° to 50°C (± 0.95°F from 32° to 122°F), see Plot A in manual <b>Light intensity:</b> Designed for measurement of relative light levels, see Plot D in manual for light wavelength response</p> <p><b>Resolution</b> <b>Temperature:</b> 0.14°C at 25°C (0.25°F at 77°F), see Plot A in manual <b>Drift:</b> Less than 0.1°C/year (0.2°F/year)</p> <p><b>Response Time</b> <b>Airflow of 2 m/s (4.4 mph):</b> 10 minutes, typical to 90% <b>Water:</b> 5 minutes, typical to 90%</p> <p><b>Time accuracy:</b> ± 1 minute per month at 25°C (77°F), see Plot B in manual</p> <p><b>Operating Range</b> <b>In water/ice:</b> -20° to 50°C (-4° to 122°F) <b>In air:</b> -20° to 70°C (-4° to 158°F) <b>Water depth rating:</b> 30 m from -20° to 20°C (100 ft from -4° to 68°F), see Plot C in manual <b>NIST traceable certification:</b> Available for temperature only at additional charge; temperature range -20° to 70°C (-4° to 158°F) <b>Battery life:</b> 1 year typical use <b>Battery Type:</b> CR2032</p> <p><b>Memory</b> <b>UA-002-08:</b> 8K bytes (approximately 3.5K combined temperature and light readings or events) <b>UA-002-64:</b> 64K bytes (approximately 28K combined temperature and light readings or events) <b>Materials:</b> Polypropylene case; stainless steel screws; Buna-N o-ring <b>Weight:</b> 18 g (0.6 oz) <b>Dimensions:</b> 58 x 33 x 23 mm (2.3 x 1.3 x 0.9 inches) <b>Environmental Rating:</b> IP68 The CE Marking identifies this product as complying with the relevant directives in the European Union (EU).</p>
Brand	Onset HOBO
Channel(s)	2
Onset Product Series	Pendant (UA)
Typical applications	Environmental (Outdoor), Field Research, Water Quality
Measurements	Light Intensity, Temperature, Water Temperature

# 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)
Temperature Calibration Certificate	2 Point Temperature Calibration (0°C / 60°C)
	2 Point Temperature Calibration (please specify temperature points)
	1 Point Temperature Calibration (0°C)
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)