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Onset UA-003-64

Onset HOBO UA-003-64 Pendant Event and Temperature Data Logger User Manual

1. INTRODUCTION

The Onset HOBO UA-003-64 Pendant Event and Temperature Data Logger is designed for accurate measurement of environmental conditions. This device efficiently collects and stores instantaneous contact event and temperature data, making it suitable for various monitoring applications, including rainfall measurement when paired with a tipping-bucket rain gauge. This manual provides essential information for the proper setup, operation, and maintenance of your data logger.

2. PRODUCT OVERVIEW

The HOBO UA-003-64 is a compact, waterproof data logger capable of recording both contact events and temperature. It is typically used with an optical base station (such as the BASE-U-4) for data offload and configuration. The device is designed for deployment in various environments, including outdoor and condensing conditions.



An image showing the Onset HOBO UA-003-64 Pendant Event and Temperature Data Logger, which is a small yellow rectangular device with a white cable connected to it. Next to it is the smaller black Optic Base Station BASE-U-4 with a USB cable.

3. FEATURES

- 2-wire interface sensor for mechanical and electrical contact closure measurement.
- Maximum measurement rate of 1 Hz (1 pulse per second).
- Temperature measurement range: -20°C to 70°C.
- User-replaceable coin cell lithium battery with a 1-year lifespan.
- Waterproof housing suitable for outdoor or condensing environments, submersible up to 30 meters (100 feet).

4. PACKAGE CONTENTS

The standard kit includes the following components:

- UA-003-64 Pendant Event and Temperature Data Logger
- Optic Base Station BASE-U-4
- Free software download (available from the manufacturer's website)

5. SETUP

1. **Software Installation:** Download and install the HOBOWare software from the Onset website onto your computer. This software is required to configure the data logger and offload data.
2. **Connect Base Station:** Connect the Optic Base Station BASE-U-4 to your computer's USB port.
3. **Connect Data Logger:** Place the UA-003-64 data logger onto the optical base station. Ensure a secure connection for data transfer and configuration.
4. **Configure Logger:** Use the HOBOWare software to configure the logging interval, start time, and other parameters for your specific application.
5. **Deployment:** Deploy the data logger in the desired monitoring location. For accurate temperature measurements in direct sunlight, it is recommended to use a solar radiation shield (e.g., RS1 or M-RSA, sold separately).

6. OPERATING INSTRUCTIONS

Once configured and deployed, the UA-003-64 data logger will automatically begin recording data based on your settings. Event data is stored only when an event occurs, optimizing memory usage.

- **Data Collection:** The logger continuously monitors and records contact events and temperature at the specified intervals.
- **Data Offload:** To retrieve data, connect the data logger to the optical base station and then to your computer. Use the HOBOWare software to offload the recorded data.
- **Data Analysis:** The HOBOWare software allows you to view, plot, and analyze the collected data. Detailed event data is accessible for in-depth analysis.

7. MAINTENANCE

- **Battery Replacement:** The data logger uses a user-replaceable coin cell lithium battery with an approximate 1-year lifespan. Refer to the full product manual for detailed instructions on safe battery replacement.
- **Cleaning:** Keep the data logger and optical base station clean. Wipe with a damp cloth as needed. Avoid using harsh chemicals or abrasive materials.

- **Waterproof Housing:** Ensure the waterproof housing is intact and free from cracks or damage before deployment in wet environments.

8. TROUBLESHOOTING

- **Logger Not Responding:** Ensure the battery is properly installed and has sufficient charge. Reconnect the logger to the optical base station and computer.
- **Data Transfer Issues:** Verify that the HOBOWare software is correctly installed and the optical base station is properly connected to the computer. Ensure the data logger is securely seated on the base station.
- **Inaccurate Temperature Readings:** If deployed in direct sunlight, ensure a solar radiation shield is used to prevent solar heating effects on temperature measurements.

9. SPECIFICATIONS

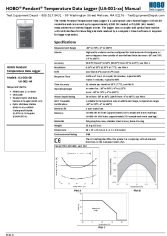
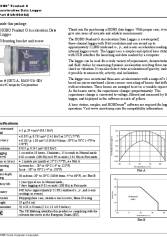




Specification	Value
Manufacturer	Onset Computer
Part Number	UA-003-64-KIT
Product Weight	50 g
Product Dimensions (LxWxH)	7.1 x 2.3 x 3.3 cm
Battery Type	1 Lithium Metal battery (included)
Style	Modern
Shape	Rectangular
Power Source	Battery powered
Features	Waterproof
ASIN	B01H2DX1D0
First Available Date	2018/09/04

10. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Onset Computer Corporation website or contact their customer service directly. Keep your purchase receipt for warranty claims.



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	<p>HOBOPendant Temperature Data Logger UA-001-xx User Manual</p> <p>Comprehensive user manual for the Onset HOBOPendant Temperature Data Logger (models UA-001-08 and UA-001-64), detailing specifications, connection, setup, operation, alarm configuration, and battery replacement.</p>
	<p>HOBOPendant G Acceleration Data Logger - User Manual</p> <p>Comprehensive guide to the HOBOPendant G Acceleration Data Logger, covering its features, specifications, operation, connection, logging modes, mounting, protection, battery replacement, and support. Includes details on measurement ranges, accuracy, logging intervals, temperature ratings, and warranty information.</p>
	<p>HOBOWare User's Guide - Onset Data Logging Software</p> <p>Comprehensive user's guide for HOBOWare software by Onset, detailing how to launch, read out, plot, and analyze data from HOBOData loggers and wireless HOBONodes. Covers HOBOWare Pro and Lite features, setup, data analysis tools, and device management for environmental monitoring.</p>
	<p>HOBOMX801 Submersible Logger Quick Start Guide</p> <p>A quick start guide for the HOBOMX801 Submersible Logger, detailing its overview, sensor connection, calibration, configuration, deployment, data download, and processing.</p>
	<p>HOBOMX1101 Temp/RH Data Logger User Manual</p> <p>Comprehensive user manual for the HOBOMX1101 Temp/RH Data Logger, detailing its features, specifications, setup, operation, and troubleshooting. Learn how to configure, deploy, and read data from this Bluetooth Smart-enabled logger for indoor environmental monitoring.</p>
	<p>HOBOPendant MX Temp (MX2201) & Temp/Light (MX2202) Logger Quick Start Guide</p> <p>Quick start guide for Onset HOBOPendant MX2201 and MX2202 data loggers, covering app setup, logger connection, deployment, and data offloading.</p>