

HOBO UX100-003

HOBO UX100-003 Temperature and Humidity USB Data Logger Instruction Manual

Model: UX100-003

INTRODUCTION

The HOBO UX100-003 is a compact USB data logger designed to accurately record temperature and relative humidity in indoor environments. It is suitable for monitoring conditions in various settings such as office buildings, warehouses, server rooms, and museums. This device stores over 42,000 temperature and humidity readings and features a user-replaceable battery. Data configuration and retrieval are managed through the free HOBOWare software, compatible with both PC and Mac operating systems.

SETUP

1. Software Installation

Before using the data logger, install the HOBOWare software on your computer. This software is required for configuring the logger, launching logging sessions, and offloading recorded data. HOBOWare is available as a free download for both Windows and macOS operating systems from the official HOBO website.

2. Battery Installation

The UX100-003 uses a user-replaceable CR2032 coin cell battery. Ensure the battery is correctly installed before initial use. The typical battery life is one year. Refer to the Maintenance section for detailed battery replacement instructions.

3. Initial Configuration

1. Connect the HOBO UX100-003 data logger to your computer's USB port.
2. Launch the HOBOWare software.
3. Use the software to configure logging parameters such as logging interval, start time, and alarm thresholds.
4. Once configured, disconnect the logger from the USB port.

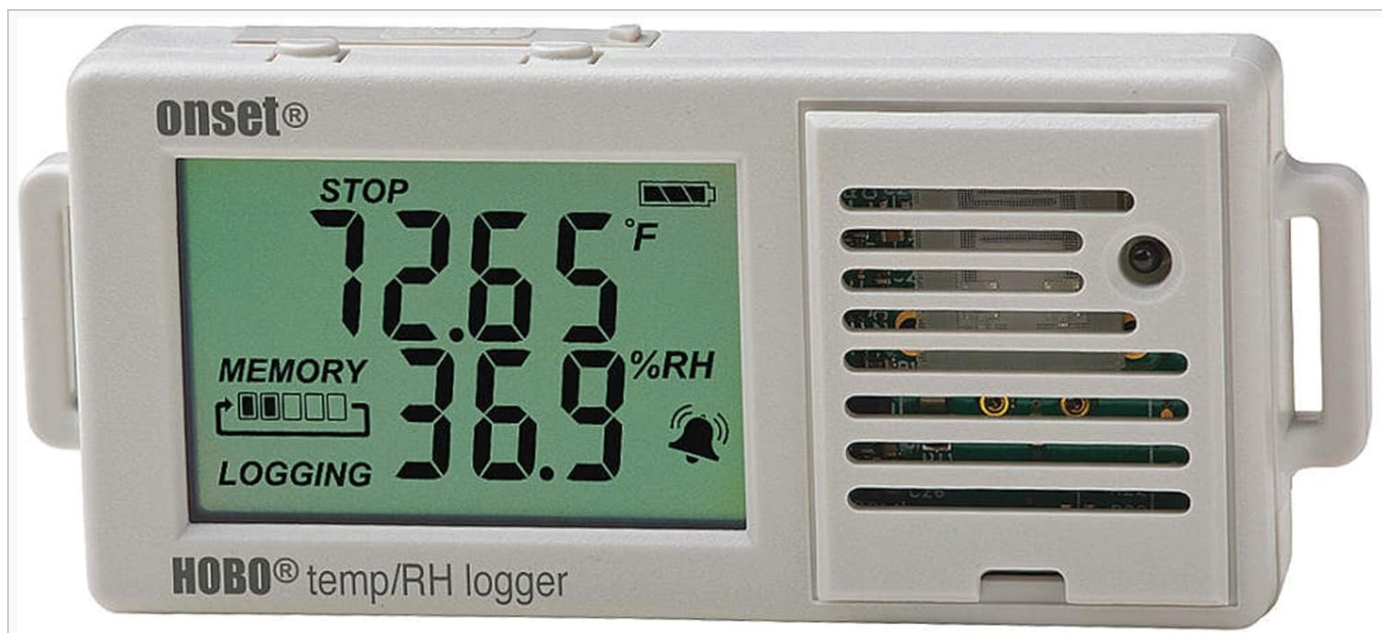


Image 1: Front view of the HOBO UX100-003 Data Logger. The LCD screen displays current temperature and relative humidity readings, along with indicators for memory usage and logging status. The right side features a vented sensor area.

OPERATING INSTRUCTIONS

1. Deployment

Place the data logger in the desired indoor environment where temperature and humidity monitoring is required. Ensure the sensor area (vented section on the right side of the device) is not obstructed to allow for accurate readings.

2. Data Logging

Once configured and launched via HOBOWare, the logger will automatically begin recording temperature and relative humidity data at the specified intervals. The LCD display will show current readings, logging status, and battery level.

3. Data Retrieval

1. To retrieve data, connect the logger to your computer's USB port.
2. Open the HOBOWare software.
3. Use the software to offload the recorded data. The data can then be viewed, analyzed, and exported for further use.
4. After offloading, you can choose to stop the current logging session or reconfigure and launch a new one.

MAINTENANCE

Battery Replacement

The HOBO UX100-003 is powered by one CR2032 lithium coin cell battery. When the battery indicator on the LCD display shows low power, or if the logger stops functioning, replace the battery promptly.

1. Ensure the logger is not actively logging data. If it is, stop the logging session using HOBOWare.
2. Locate the battery compartment on the device.
3. Carefully open the compartment and remove the old CR2032 battery.
4. Insert a new CR2032 battery, observing the correct polarity (+/-).
5. Close the battery compartment securely.
6. After battery replacement, it is recommended to connect the logger to HOBOWare to verify functionality and re-launch a logging session if needed.

Cleaning

Clean the exterior of the data logger with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the sensor area remains free of dust and debris for accurate readings.

TROUBLESHOOTING

• **Logger Not Connecting to HOBOWare:**

Ensure the USB cable is securely connected to both the logger and the computer. Try a different USB port or cable. Verify that HOBOWare software is installed correctly and is the latest version. Restart your computer if necessary.

• **Logger Display is Blank or Unresponsive:**

Check the battery level. If the battery is low or depleted, replace it as described in the Maintenance section. If the issue persists after battery replacement, try removing and re-inserting the battery to reset the device.

• **Inaccurate Readings:**

Ensure the logger's sensor area is not obstructed by dust, debris, or placed in an area with poor air circulation. Avoid placing the logger near heat sources, direct sunlight, or areas with rapid temperature/humidity fluctuations that do not represent the general environment.

• **Logging Session Not Starting:**

Connect the logger to HOBOWare and verify that a logging session has been properly configured and launched. Check for any error messages within the software.

SPECIFICATIONS

Feature	Detail
Model	UX100-003
Temperature Range	-20°C to +70°C (-4°F to +158°F)
Relative Humidity Range	15% to 95% RH non-condensing
Temperature Accuracy	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)
RH Accuracy	±3.5% RH from 25% to 85% RH (typical)
Data Storage Capacity	Over 42,000 temperature and humidity readings
Logging Interval	1 second to 18 hours (configurable via HOBOWare)
Battery Type	CR2032 3V Lithium Coin Cell (user-replaceable)
Battery Life	1 year (typical)
Interface	USB
Dimensions (H x W x D)	3.44 x 1.44 x 0.6 inches (8.74 x 3.66 x 1.52 cm)
Weight	0.32 ounces (9 grams)
Waterproof Rating	IP50
Software Required	HOBOWare or HOBOWare Pro (free download)

WARRANTY INFORMATION

The HOBO UX100-003 Data Logger comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty documentation provided with your purchase or contact HOBO customer support.

SUPPORT





For further assistance, technical support, or to download the latest version of HOBOWare software, please visit the official HOBO website. The website provides comprehensive resources, including FAQs, user forums, and contact information for customer service.

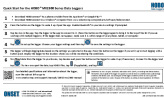
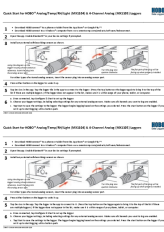
HOBOWare Software: The free HOBOWare software is essential for full functionality of your data logger. It allows for device configuration, data download, and analysis. Ensure you are using the latest version for optimal performance.



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Related Documents - UX100-003

	<p>HOBO Temp/RH 3.5% Data Logger UX100-003 User Manual</p> <p>Comprehensive user manual for the HOBO Temp/RH 3.5% Data Logger (UX100-003) by Onset. Learn about its features, specifications, setup, operation, and maintenance for indoor temperature and humidity monitoring.</p>
	<p>HOBO MX2308 Temp/RH/PAR Data Logger Manual: Specifications, Operation, and Configuration</p> <p>Comprehensive user manual for the HOBO MX2308 Bluetooth-enabled data logger, covering specifications, setup, configuration, data download, and troubleshooting for temperature, relative humidity (RH), and photosynthetically active radiation (PAR) measurements.</p>
	<p>HOBO MX2300 Series Data Logger Manual: Temperature & RH Monitoring</p> <p>Comprehensive manual for the HOBO MX2300 Series Bluetooth Low Energy (BLE) data loggers by Onset. Covers setup, specifications, operation, and data analysis for temperature and relative humidity monitoring.</p>
	<p>HOBO MX801 Submersible Logger Quick Start Guide</p> <p>A quick start guide for the HOBO MX801 Submersible Logger, detailing setup, configuration, deployment, data download, and processing for water parameter logging using HOBOnnect.</p>

	<p>HOBO MX2300 Series Data Logger Quick Start Guide Onset Computer Corporation</p> <p>Quick Start Guide for the HOBO MX2300 Series Data Loggers by Onset Computer Corporation. Learn how to download the HOBObconnect app, connect your logger, configure settings, start logging, and offload data. Includes important safety warnings and contact information.</p>
	<p>HOBO MX1104 & MX1105 Data Logger Quick Start Guide Onset</p> <p>Quick start guide for Onset HOBO MX1104 (Analog/Temp/RH/Light) and MX1105 (4-Channel Analog) data loggers. Learn how to download HOBObconnect, connect your logger, configure settings, and download data.</p>