

User Manual



MHT50

Temperature & Humidity Data Logger

Disposable Temperature & Humidity Data Logger



P/N:7603593



Scan for Details



Product Introduction

The **MarMonix MHT50** is a **single-use USB Temperature & Humidity Data Logger** designed for monitoring and recording temperature and relative humidity during transportation, storage, and other environmental monitoring applications.

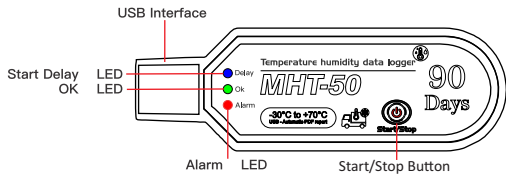
The logger continuously records measurement data according to the configured recording interval and provides an easy way to generate measurement reports through a USB connection.

Main Functions

- Temperature and relative humidity measurement
- Continuous data recording
- Single-use recording operation
- Automatic data report generation
- Export recorded data as PDF or CSV
- USB interface for computer connection
- Temperature and humidity alarm monitoring
- IP66 protection against dust and water ingress
- LED status indication

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Product Overview



The MHT50 includes:

- Start Button
- Start Delay LED (Blue)
- OK LED (Green)
- Alarm LED (Red)
- USB Interface
- Internal Temperature & Humidity Sensor

Start Recording

1. In the shutdown state, **press and hold the Start Button for 3 seconds**.
2. The **blue LED flashes once every 10 seconds**, indicating that the logger is in start-delay mode.
3. After the configured delay, the logger automatically starts recording.

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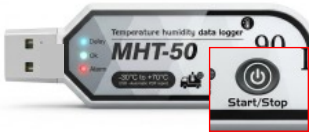
Recording Status

Normal Recording

The green LED flashes once every 10 seconds, indicating that the logger is recording normally and the measured values are within the preset alarm limits.

Alarm Status

The red LED flashes once every 10 seconds, indicating that the logger is recording and the temperature or humidity has exceeded the preset alarm limits.



Stop Recording

The recording can be stopped in two ways:

- Pressing and holding the **Start/Stop Button for 3 seconds**.
- Connecting the logger to a computer through the **USB interface**.

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Technical Specifications

Parameter	Value
Sensor	Internal Temperature & Humidity Sensor
Battery	CR2032
Dimensions	83.5 × 27.7 × 7.5 mm
Weight	16 g
Operating-Temp	-30°C to +70°C / -22°F to +158°F
Temp-Accuracy	±0.5°C (-20°C to +40°C); ±1°C (others)
Humidity Range	0–100% RH
Humidity Accuracy	±3% RH (25°C, 20–80% RH); ±5% RH
Time Zone	UTC+0:00 default / Customizable
Log Interval	5 min default / 1 min to 24 h
Log Duration	90 days default / 7 to 360 days/ Customizable
Start Delay	30 min default / Customizable
Alarm Preset	Customizable <2°C or >8°C ; 20–80 (Default)
Data Export Format	PDF / CSV

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USB Data Export

After recording has ended:

1. Connect the MHT50 to a computer using the USB interface.
2. The logger automatically generates a **PDF report**.
3. Recorded data can also be exported/viewed in **CSV format**.
4. **Do not disconnect the logger while the PDF report is being generated.**

Disconnecting the logger during report generation may cause some data points to be missing.

Important Notes

- The MHT50 is a single-use data logger.
- Do not press and hold the Start Button during recording.
- Do not connect the logger to a computer while it is recording.
- If the red LED remains continuously ON, the device may be damaged. Stop using the logger.
- Keep the logger within its specified operating temperature and humidity range.
- Handle the USB connector carefully.

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