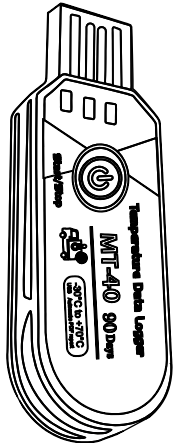


MT-40
Temperature Data Logger
Single-Use USB Temperature Data Logger



P/N:7603591



Scan for Details



Products Overview

The MarMonix MT 40 is a compact, single-use temperature data logger designed to monitor temperature-sensitive products during transportation, storage, and distribution. The logger continuously records temperature according to its configured settings and provides LED indications for normal recording, alarm conditions, delayed start, and report generation.

Package Contents

- Temperature Data Logger x50
- Calibration Certificate x1
- Barcode Sticker x1
- 3M Tape x1

Typical Applications

- Cold-chain transportation
- Pharmaceuticals and medicines
- Food and seafood
- Fresh produce
- Laboratory samples
- Refrigerated storage
- Temperature-sensitive shipments

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Key Features

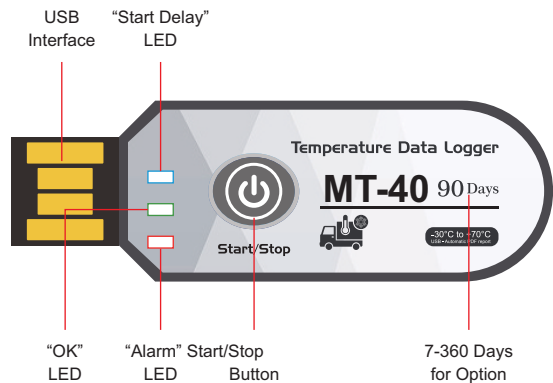
Feature	Specification
Temperature range	−30 °C to +70 °C
Sensor type	NTC temperature
Accuracy	±0.5 °C from −20 °C
Memory capacity	Up to 33,792 readings
Data interface	USB 2.0
Temperature unit	°C / °F selectable
Ingress protection	Ip67
Battery	Cr2032
Design	Single-use

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Programmable Features

- **Logging interval:** 5-minute default; adjustable from 1 minute to 24 hours
- **Recording duration:** 90-day default; adjustable from 7 to 360 days
- **Start delay:** 30-minute default; fully customizable
- **Alarm thresholds:** Default: below 2 °C / above 8 °C; customizable
- **Reporting:** Automatic PDF and CSV report generation

Component Diagram



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Device Controls

component	Function
Start/Stop button	Powers the logger on, checks recording status, and stops recording
Green LED — OK	Normal recording in progress
Red LED — Alarm	Temperature alarm recorded
Blue LED — Start delay	Delayed recording or report generation in progress
USB interface	Provides access to recorded data and reports

LED Status

- **Green flashes every 10 seconds:** Recording normally; no alarm
- **Red flashes every 10 seconds:** Recording in progress; a temperature alarm has been recorded
- **Blue flashes every 10 seconds:** Start-delay period; recording has not yet started
- **Blue flashes during USB connection:** Report is being generated
- **Green after report generation:** Report is ready

Note

A continuously illuminated red LED, rather than the normal periodic red flash, may indicate a device fault. Stop using the logger and contact MarMonix support.

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Operation

A. Start Recording

1. Make sure the logger is in the OFF state.
2. Press and hold the Start/Stop button for approximately 3 seconds.
3. The logger powers on.
4. Check the LED status:
 - **Green** — recording started normally.
 - **Blue** — start delay is active.
 - **Red** — recording is active and an alarm condition has been recorded.

B. Start Delay

The default start delay is 30 minutes and can be customized. During the delay period, the blue LED flashes every 10 seconds. Once the configured delay expires, temperature recording begins automatically.

C. Check Recording Status

During recording, press the button once briefly. The LED indicates the current status:

- **Green** — normal recording.
- **Red** — alarm recorded.

A short press only checks status; it does not affect the recording in progress.

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D. Temperature Alarm

Default alarm limits:

- Low alarm — below 2 °C
- High alarm — above 8 °C

Alarm limits can be customized according to the application. When an alarm condition is recorded, the red LED flashes every 10 seconds. For

F. Stop Recording

To manually stop recording, press and hold the Start/Stop button for approximately 3 seconds until the logger turns off. Stopping the logger ends the active recording cycle.

IMPORTANT

The MT 40 is a single-use logger. Do not repeatedly start and stop the device during an active monitoring application.

USB Data & Report

After the monitoring cycle is complete:

1. Connect the MT 40 to a compatible computer's USB port.
2. The logger begins generating the report; the blue LED flashes during processing.
3. Do not disconnect the logger while the blue LED indicates report generation.

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A. PDF Report

The generated report may include:

- Recording information & Date and time
- Temperature readings with graph & Minimum / maximum temperature
- Alarm information & Recording history

B. CSV Data

CSV data can be opened in common spreadsheet applications for detailed analysis and record keeping.

Operating Precautions

- The MT 40 is a single-use device.
- Do not recharge or open the device.
- Do not modify the logger.
- Do not disconnect the USB connection during report generation.
- Keep the USB interface clean and dry.
- Avoid unnecessary button operation during recording.
- Place the logger where it best represents the temperature of the monitored shipment.
- Avoid direct contact with ice packs or heat sources unless specifically required.
- Do not intentionally immerse the logger in water, despite its IP67 rating.
- Operate the logger within its specified temperature range.

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Troubleshooting

Problem	Solution
Logger does not start	Hold the button for approximately 3 seconds.
Blue LED flashing	Start delay is active; wait for recording to begin.
Green LED flashing	Normal operation; no action required.
Red LED flashing	A temperature alarm has been recorded.
Report not generated	Reconnect the USB cable and allow the process to complete.
Report incomplete	Ensure the logger was not disconnected during report generation.
Red LED remains continuously ON	Possible device fault. Stop use and contact MarMonix support.

Technical Specifications

Parameter	Value
Sensor	NTC
Recording type	Single-use

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Temperature range	−30 °C to +70 °C / −22 °F to +158 °F
Accuracy / Resolution	±0.5 °C (−20 °C to +40 °C); ±1 °C outside this range / 0.1 °C
Memory	33,792 readings max.
Logging interval	5 min default; adjustable 1 min to 24 h
Recording duration	90 days default; adjustable 7 to 360 days
Start delay	30 min default; customizable
Alarm	<2 °C / >8 °C default; customizable
Temperature unit	°C default; °F selectable
Time zone	UTC+0:00 default; customizable
Data interface	USB 2.0
Report	Automatic PDF / CSV
Battery	Cr2032
Protection	Ip67
Dimensions & Weight	62 × 20 × 5.7 mm / 8 g

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