

tempmate M2 Multi Use USB Temperature User Manual

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tempmate M2 Multi Use USB Temperature

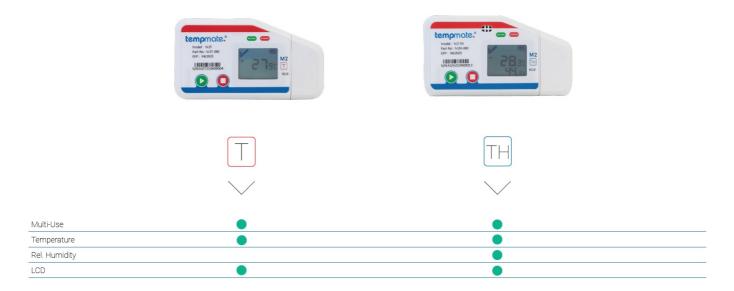


Introduction

The tempmate.®-M2 is designed to be mounted on a shipment or stationary and measure relevant para-meters such as temperature and optionally relative humidity. The device records data and stores it on an internal memory.

Intended Use

The tempmate.®-M2 is designed to be mounted on shipments or stationary and to record relevant parameters as mentioned in the data sheet. Any use or opera-tion requiring specific requirements and standards not explicitly mentioned in the data sheet must be validated and tested at the customer's own responsibility.



Device Description





Display



1. STEP 1 Configuration *optional

This step is only necessary if you want to adapt the pre-installed configuration to your application.

- 1. Download the free tempbase 2 software https://www.tempmate.com/de/download/
- 2. Install the tempbase 2 software on your PC.
- 3. Remove the cap and connect the not started logger to your PC.
- 4. Open the tempbase 2 software and select the "Logger Setup" button" (1).
- 5. Make the desired settings and save them via the "Save Parameter" button (2).
- 6. Remove the logger from your PC and replace the cap securely.



2. STEP 2 Start Logger

- 1. Press and hold the green start button of for 5 seconds.
- 2. A successful start is indicated by the green LED on your device flashing 10 times.
- 3. Note: If another or no flashing signal appears, do not use the logger and contact support.

3. STEP 3 Set Mark

- 1. Briefly press the green start button button twice in succession to set a mark.
- 2. A successfully set mark is indicated by the word "MARK" and the number of marks set so far in your display.
- 3. Note: Up to 10 marks can be set per operation.

4. STEP 4 Stop Logger

- 1. Press and hold the red stop button of for 5 seconds.
- 2. A successful stop is indicated by the red LED on your device flashing 10 times.

Alternative stop modes

Automatic Stop (default setting)

- 1. The device will stop automatically when the maximum number of measured values in the data memory is reached and no manual stop is performed beforehand.
- 2. This stop mode works in addition to the manual stop. Software Stop (optional)
- 3. This setting can be made in the tempbase 2 software. (see STEP 1)
- 4. The stop is triggered automatically by connecting the logger to the PC and opening the software.
- 5. A manual stop is not possible in this configuration.

STEP 5 Manual Readout of Data

- 3. Remove the cap and connect the logger to your PC.
- 4. A successful connection is indicated by both LEDs flashing. The abbreviations CSV and PDF appear one after the other in the display.

- 5. The logger automatically opens as an external drive on your PC. This process may take a few minutes depending on the amount of data.
- 5. Open the drive and copy the PDF and CSV report stored on it for your filing.

Note: A report is automatically generated as PDF and/or CSV when the device is stopped. The device can still be read out during a running measurement and an intermediate report can be downloaded.

Note: Already generated reports are automatically overwritten and deleted when the device is restarted.

Readout with the tempbase 2 software (optional)

- Remove the cap and connect the logger to your PC.
- Open the tempbase 2 software and select the "Export/Import" button (3).



• Select the desired file format (PDF/XLS/IME) for export and the file location and confirm the download.



External Sensors

- Remove the cap and connect the not started logger to your PC.
- Open the tempbase 2 software and select the "Logger Setup" button.
- In the "Sensor Type" area, select the sensor type you want to work with.
- Confirm your configuration by clicking on "Save Parameter" and remove the device from your PC.
- To record with an external sensor, use a screwdriver to loosen the screw on the bottom of the device and remove the standard cap.
- Replace it with the external sensor of your choice and screw it again.

Replace Battery

- Open the cover on the back of the device by turning it counterclockwise.
- Remove the old battery and dispose of it according to national regulations.
- Insert the new battery and replace the cover, closing it clockwise.
- Remove the cap and connect the logger to your PC.
- Open the tempbase 2 software to synchronize date & time again. This process is automatically trigge red when the logger is connected to PC and software.
- Caution: Back up your data and download your last report before removing the battery from the instrument.

Important Notes

- Configuration cannot be changed during recording.
- We recommend recalibration after 1 year.
- Always dispose of batteries according to your country's regulations.
- Do not place the device in corrosive liquids and do not expose it to direct heat.

SPECIFICATIONS

Main Technical Specifications tempmate.®-M2		
Temperature Sensor	HQ Digital Temperature sensor (internal and external optional)	
Temperature Range	-30°C to +70°C (-40°C to +90°C with ext. T Sensor) (-80°C to +200°C with ext. PT 100 Sensor)	
Temperature Accuracy	±0.3°C (at –20°C to + 40°C, other 0.5°C)	
Temperature Resolution	0.1°C	
Humidity Sensor	n/a	
Humidity Range	n/a	
Humidity Accuracy	n/a	
Humidity Resolution	n/a	
Data Storage	60,000 values	
Display	Big Multifunction LCD	
Start Setting	Manually by pressing button, by software or timed	
Recording Time	Up to 6 months	
Interval	10sec. up to 11h 59min. (default 10 min.)	
Alarm Settings	Up to 6 points customizable	
Alarm Type	Single alarm or cumulative	
Battery	CR2450 / replaceable by customer	
Dimensions	100 x 53 x 12 mm	
Weight	54g	
Protection Class	IP65	
Connection Interface	USB 2.0, A-Type	
Conformity	EN 12830, CE, RoHS	
Software	PDF or CSV reader or tempbase 2 software / free download	
Interface to PC	Integrated USB port	
Reprogrammable	Yes, with internal HTML tool* or optional tempbase 2 Software	
Automatic Reporting	PDF & CSV	

Main Technical Specification	ons tempmate.®-M2
Temperature Sensor	HQ Digital Temperature sensor (internal and external optional)
Temperature Range	-30°C to +70°C (-40°C to +90°C with ext. T Sensor) (-80°C to +200°C with ext. PT 100 Sensor)
Temperature Accuracy	±0.3°C (at –20°C to + 40°C, other 0.5°C)
Temperature Resolution	0.1°C
Humidity Sensor	HQ Digital Temperature/rel. Humidity sensor (internal and external optional)
Humidity Range	0%rH to 100%rH
Humidity Accuracy	±3%rH (20 to 80%rH), 5% others (at 25°C)
Humidity Resolution	0.1%rH
Data Storage	60,000 values
Display	Big Multifunction LCD
Start Setting	Manually by pressing button, by software or timed
Recording Time	Up to 6 months
Interval	10sec. up to 11h 59min. (default 10 min.)
Alarm Settings	up to 6 points temperature and 2 points humidity customizable
Alarm Type	Single alarm or cumulative
Battery	CR2450 / replaceable by customer
Dimensions	100 x 53 x 12 mm
Weight	54g
Protection Class	IP65
Connection Interface	USB 2.0, A-Type
Conformity	EN 12830, CE, RoHS
Software	PDF or CSV reader or tempbase 2 software / free download
Interface to PC	integrated USB port
Reprogrammable	Yes, with internal HTML tool* or optional tempbase 2 Software
Automatic Reporting	PDF & CSV

Main Technical Specifications tempmate.®-M2 Accessory

tempmate.®-M2 External T-Sensor		
Sensor	HQ Digital Temperature Sensor	
Temperature Range	-40°C to +90°C	
Temperature Accuracy	0.3°C (at -20 ° C to + 40 ° C, other 0.5°C)	
Temperature Resolution	0.1°C	
Sensor Tip	Stainless Steel (30 x 5 mm)	
Sensor Connetion	M2-USB Connection	
Cable length	1.2 m	
Cable Diameter	3 mm	
Cable Material	PVC	

tempmate.®-M2 External High/Low T-Sensor		
Temperature Sensor	PT100 Sensor	
Temperature Range	-80°C to +200°C	
Temperature Accuracy	±1°C	
Temperature Resolution	0,1°C	
Sensor Tip	Stainless Steel (30 x 5 mm)	
Sensor Connetion	M2-USB Connection	
Cable Diameter	3 mm	
Cable length	1.2 m	
Cable Material	PTFE	

tempmate.®-M2 External T/rH-Sensor		
Sensor	HQ Digital Temperature/rel. Humidity Sensor	
Temperature Range	-40°C to +90°C	
Temperature Accuracy	0.3°C (at -20 ° C to + 40 ° C, other 0.5°C)	
Temperature Resolution	0,1°C	
Humidity Range	0 – 100 %rH	
Humidity Accuracy	±3%rH (10% to 70%), 5% others (at +25°C)	
Humidity Resolution	0.1 %rH	
Sensor Tip	Stainless Steel (30 x 5 mm)	
Sensor Connetion	M2-USB Connection	
Cable length	1.2 m	
Cable Diameter	3 mm	
Cable Material	PVC	

Contact

Do you have any questions? Please contact us – our experienced team will be happy to support you. sales@tempmate.com +49 7131 6354 0

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Documents / Resources



tempmate M2 Multi Use USB Temperature [pdf] User Manual M2 Multi Use USB Temperature, M2, Multi Use USB Temperature, USB Temperature, USB Temperature

References

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