



# tempmate S2 Disposable USB Temperature Data Logger User Manual

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**S2 Disposable USB Temperature Data Logger**



## 1. Introduction

The tempmate.®-S2 is designed to be mounted on a broadcast or stationary and measure relevant parameters such as temperature and optionally relative humidity. The device records data and stores it on an internal memory.

## 2. Intended use

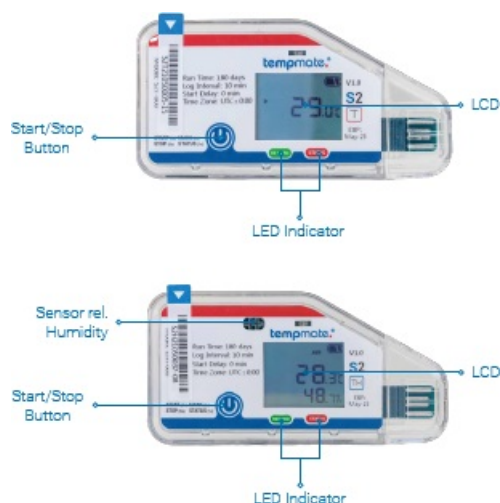
The tempmate.®-S2 is designed to be mounted on shipments or stationary and to record relevant parameters as mentioned in the datasheet. Any use or operation requiring specific requirements and standards not explicitly mentioned in the data sheet must be validated and tested at the customer's responsibility.

## 3. tempmate.®-S2 models



Single-use	●	●
Temperature	●	●
Rel. humidity		●
LCD	●	●

## 4. Device description



## 5. Display indicators

Press the Start button repeatedly to call up the individual pages on the device display.



\* If the start delay is set, this symbol ► flashes after a successful start until the time limit has elapsed.

## 6. Quick Start Guide

Start Button

Green LED

Red LED

**01** Keep button pressed for minimum 5 seconds to start recording

**02** Add started tempmate S2 to your shipment

**03** Connect stopped logger directly to USB port

**04** The PDF report will be generated automatically

	LED Indication	Display Indication
<b>Start Logger</b>	5 sec. (Green LED on)	Rec. (Green bar)
<b>Stop Logger</b>	(Green LED off)	Stop (Red bar)
<b>Set Mark</b>	2 times (Green LED on)	Mark (Green bar)
<b>Mark limit full</b>	(Green LED off)	Mark (Red bar)
<b>Not started</b>	1 time (Red LED on)	Not started (Red bar)
<b>Low battery</b>	3 sec. (Red LED on)	Low battery (Red bar)
<b>Recording-OK</b>	(Green LED on)	Rec. (Green bar)
<b>Recording-Alarm</b>	(Red LED on)	Rec. (Red bar)
<b>Stopped-OK</b>	(Green LED on)	Stop (Green bar)
<b>Stopped-Alarm</b>	(Red LED on)	Stop (Red bar)

## 7. Operation and use


STEP 1 Configuration \*optional

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


- Download the free tempbase 2 software. – <https://www.tempmate.com/de/download/>
- Install the tempbase 2 software on your PC.
- Remove the cap and connect the not started logger to your PC.
- Open the tempbase 2 software and select the „Logger Setup“ button (1).
- Make the desired settings and save them on your device using the „Save Parameter“ button (2)
- Remove the logger from your PC and replace the cap securely.




## STEP 2 Start logger

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

## STEP 3 Set mark

- Press the blue button  twice in succession to set a mark.
- A successfully set marker is indicated by the word „MARK“ and the number of markers set so far in your display.
- Important: Up to 10 marks can be set per operation.

## STEP 4 Stop logger

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

## Alternative stop modes

### Automatic stop (default setting)

- o The device will stop automatically when the maximum number of readings in the data memory is reached and no manual stop is performed beforehand.
- o This stop mode works in addition to the manual stop..

### Software stop (optional)

- o This setting can be made in the tempbase 2 software. (see STEP 1)
- o The stop is triggered automatically by connecting the logger to the PC and opening the software.
- o A manual stop is not possible in this configuration.

## STEP 5 Manual readout

- Remove the cap and connect the logger to your PC.
- A successful connection is indicated by both LEDs flashing. The abbreviations CSV and PDF appear one after the other in the display.- The logger will automatically open as an external drive on your PC. This process may take a few minutes depending on the amount of data.

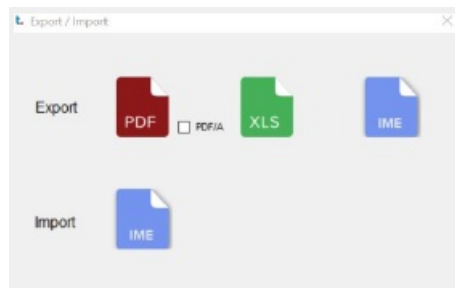
- Open the drive and copy the PDF and CSV report stored to a local folder.
- Important: A report is automatically generated as PDF and/or CSV when the device is stopped. The device can still be read out during a running measurement and an intermediate report can be downloaded.

### Readout with 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.



## 8. Important notes

- The configuration of your device cannot be changed during recording.
- If you connect the device to the PC without a manual stop, a temporary stop of the recording is triggered. You can now download an interim report. After disconnecting the device from your PC, the recording will continue automatically.
- Always dispose of devices according to your country's regulations.
- Do not place the device in corrosive liquids and do not expose it to direct heat.



### Main Technical Specifications tempmate.®-S2 T

Recording Options Single-Use  
 Dimension [mm] 93 x 47 x 8 mm  
 Weight [g] 30g  
 Casing Ecofriendly Hardcase  
 Battery CR2450 lithium metal button cell battery  
 Connection Interface USB 2.0, A-Type (integrated)  
 Display Multifunction LCD  
 Protection Class IP65  
 Shelf Life 24 months  
 Temperature Range  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$   
 Temperature Accuracy  $\pm 0.3^{\circ}\text{C}$  ( $-20$  to  $40^{\circ}\text{C}$ )  $\pm 0.5$  (others)  
 Temperature Resolution  $0.1^{\circ}\text{C}$

Humidity Range n/a  
Humidity Accuracy n/a  
Humidity Resolution n/a  
Ambient Light Sensor Yes  
Memory Capacity (measurements) 32,000 points (T)  
Run Time (Logging Interval) Up to 180 days (10 min.) = Standard Model  
Other models only on request  
Data Export PDF & CSV  
Alarm Configuration up to 5 points customizable, single or cumulative  
Startup Mode Button  
Stop Mode Button or by Software

## Other Specifications

Temporary PDF The PDF Report is available at any time without stopping the Logger  
Software PDF reader + optional tempbase 2 Software  
Reprogrammable Yes, with optional tempbase 2 Software  
Backup-Log-Feature Yes  
Custom ID and Travel Description Yes  
Calibration Certificate Yes, with 6 points (hardcopy) & PDF in memory  
Conformity EN 12830, CE, RoHS  
Serial Number Identification Yes



## Main Technical Specifications tempmate.®-S2 TH

Recording Options Single-Use  
Dimension [mm] 93 x 47 x 8 mm  
Weight [g] 30g  
Casing Ecofriendly Hardcase  
Battery CR2450 lithium metal button cell battery  
Connection Interface USB 2.0, A-Type (integrated)  
Display Multifunction LCD  
Protection Class IP52  
Shelf Life 24 months  
Temperature Range -30 °C to 70 °C  
Temperature Accuracy  $\pm 0.3^{\circ}\text{C}$  (-20 to 40°C)  $\pm 0.5$  (others)  
Temperature Resolution 0.1 °C  
Humidity Range 0 – 100 %rH  
Humidity Accuracy  $\pm 3\%\text{rH}$  (20 to 80%rH)  $\pm 5\%$  (others, at 25°C)  
Humidity Resolution 0.1 %rH  
Ambient Light Sensor Yes  
Memory Capacity (measurements) 32,000 points (T/rH)  
Run Time (Logging Interval) Up to 180 days (10 min.) = Standard Model  
Other models only on request  
Data Export PDF & CSV  
Alarm Configuration up to 5 points temperature and 2 points humidity customizable  
Startup Mode Button  
Stop Mode Button or by Software

## Other Specifications

Temporary PDF The PDF Report is available at any time without stopping the Logger

Software PDF reader + optional tempbase 2 Software  
Reprogrammable Yes, with optional tempbase 2 Software  
Backup-Log-Feature Yes  
Custom ID and Travel Description Yes  
Calibration Certificate Yes, with 6 points (hardcopy) & PDF in memory  
Conformity EN 12830, CE, RoHS  
Serial Number Identification Yes

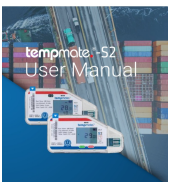
Since environmental influences can affect the lifespan of batteries, we recommend that all our products be stored in the conditions that are optimal for them. In this way, the shelf life given at the time of purchase can be guaranteed. Optimal storage conditions: +15°C to +23°C / 45% to 75% rH.

## Contact information

Do you have any questions? Please contact us – our experienced team will be happy to support you.  
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## Documents / Resources

	<p><a href="#">tempmate S2 Disposable USB Temperature Data Logger</a> [pdf] User Manual S2 Disposable USB Temperature Data Logger, S2, Disposable USB Temperature Data Logger, USB Temperature Data Logger, Temperature Data Logger, Data Logger, Logger</p>
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## References

- [t. tempmate.® - data logger & supply chain monitoring](#)
- [t. tempmate.® Downloadbereich](#)