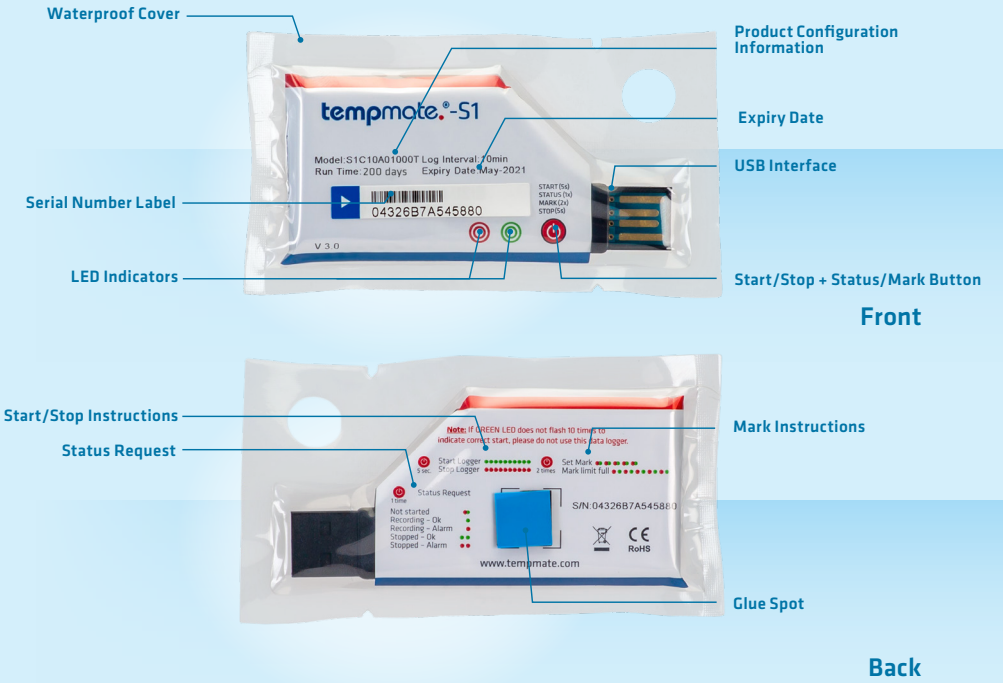
Manual – tempmate.® -S1

Single-Use USB Data Logger



Product Overview

This document describes the correct handling process for **temp**mate.®-S1 data loggers, for the purpose to ensure the proper operation and provide a reliable temperature and time record during transportation and storage.

Technical Specifications

Recording Options	Single-Use
Temperature Range	–30 °C to 70 °C
Temperature Accuracy	±0.2°C (0°C/+60°C); ±0.5°C (others)
Temperature Resolution	0.1 °C
Data Storage Capacity	31.200 readings
Shelf Life / Battery	2 years[1] / CR2450 button cell
Recording Interval	10 minutes (standard)
Recording Duration	200 days
Startup Mode	Button or preprogrammed scheduled start
Stop Mode	Button or preprogrammed scheduled start
Protection Class	IP67 / NEMA 6

Weight	15.2 g
Dimensions	88 mm × 47 mm × 8 mm (L × W × H)
Certifications	According to EN 12830,according to FCC and CE, RoHS
Validation Certificate	PDF file in memory and online database
Software	PDF or CSV program Optional: Cloud Ready with the tempmate.®-Cloud
Report Generation	Automatic PDF & CSV report
Connection Interface	USB 2.0, A-Type
Alarm Configuration	Optional, up to 6 points

1 Depending on optimal storage conditions (+15°C to +23°C / 45% to 75% rH)

Manual – tempmate® -S1

Single-Use USB Data Logger

Operation Instructions

Press button

01 Press and hold for at least 5 seconds to start recording. If the GREEN LED flashes 10 times, the start was successful.
Note: If the GREEN LED does not flash 10 times to indicate a correct start or RED LED flashes 3 times, DO NOT use this logger.

Status Request or Set Mark (optional)

02 Press button once at any time to check current status of the logger. Double-click button to set a mark in the report. See details of these optional features in tables below.

Press button

03 Keep button pressed for minimum 5 seconds to stop recording. Then RED LED flashes 10 times, which indicates a successful stopping.
Note: For safety issues the logger is not stoppable in the first 30min. after the start.

Tear off

04 After stopping record, tear off the transparent plastic cover and connect the logger to a USB port of the computer. The PDF ans CSV report will be generated automatically and can be found in the device's „tempmate" folder.

Start / Stop

Status	Action	LED confirmation
Start Logger	Push button for 5 sec	GREEN LED flashes 10 times
Set Mark	double-click button	RED LED + GREEN LED flashes 5 times simultaneously
Mark limit full	double-click button	RED LED + GREEN LED flashes 5 times alternating
Stop Logger	Push button for 5 sec	RED LED flashes 10 times

Status Request by pushing Button once

Status	Action	LED confirmation
Not Started	push button once	RED LED + GREEN LED flashes 1 time
Recording – OK	push button once	GREEN LED flashes 1 time
Recording – Alarm	push button once	RED LED flashes 1 time
Stopped – OK	push button once	GREEN LED flashes 2 times
Stopped – Alarm	push button once	RED LED flashes 2 times
Low Battery	push button once	RED LED flashes 3 times
Scheduled Start	push button once	RED LED + GREEN LED flashes 2 times alternately

Manual – tempmate.® -S1

Single-Use USB Data Logger

Certificate of Validation

The certificate of validation is available online for each logger. Follow the steps below to access your logger's certificate and retrieve all related documents.

- Hold the **temp**mate.®-S1 logger to the back of your phone
- The NFC function opens the **temp**mate.® certificate database
- You automatically get access to the validation certificate of your **temp**mate.®-S1 logger and all related documents

- Open your browser and go to the following page: https://www.tempmate.com/database/
- Alternatively you can scan this QR-Code to get to the mentioned page.
- Enter the serial number of your **temp**mate.®-S1 in the search bar and press the ENTER button
- You automatically get access to the validation certificate of your **temp**mate.® logger

Notes

- When **temp**mate.®-S1 logger is stopped and connected to the computer the first time, both LEDs are flashing to indicate the PDF report is in process of generation. At this time, please do not unplug the logger until both LEDs are on, which indicates the finished PDF generation.
- A stopped **temp**mate.®-S1 logger cannot be started again.
- Do not place **temp**mate.®-S1 logger into corrosive liquid.
- The battery of **temp**mate.®-S1 loggers is a non-exchangeable CR2450 lithium battery. Please do not expose to direct heat. Do not place in microwave.
- Store **temp**mate.®-S1 loggers under room temperature conditions and do not use it after the expiry date printed on the logger..
- Please recycle or dispose **temp**mate.®-S1 loggers in accordance with local laws and regulations.
- Hold the logger against the back of your phone to access the validation certificate of your **temp**mate.®-S1 and all associated documents via the NFC function.