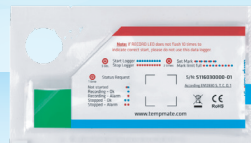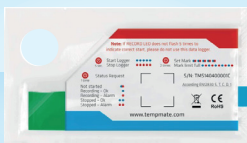# tempmate.®-S1 Comparison* - V1.0 vs. V2.0

*Comparison between old tempmate.®-S1 Version 1.0 and new tempmate.®-S1 Version 2.0 or newer.

Design [1]

Model

| tempmate.®-S1 V1.0 | tempmate.®-S1 V2.0 |

Main Technical Specifications

Recording Options	Single-Use	Single-Use
Item Number (Standard Model) [2]	TMS90CX000	S1C10A01000
Dimension [mm]	80 x 47 x 4 mm	80 x 47 x 7 mm
Weight [g]	11 g	14.6 g
Battery	CR2032 lithium metal button cell	CR2450 lithium metal button cell
Connection Interface	USB 2.0, A-Type (integrated)	USB 2.0, A-Type (integrated)
Protection Class	IP67 / NEMA 6	IP67 / NEMA 6
Shelf Life [3]	12 months	24 months
Temperature Range	–30 ℃ to 70 ℃	–30 ℃ to 70 ℃
Temperature Accuracy	±0.5℃ (–20℃/+40℃); ±1.0℃ (other range)	±0.5℃ (–20℃/+40℃); ±1.0℃ (other range)
Temperature Resolution	0.1 ℃	0.1 ℃
Memory Capacity (measurements) [4]	12,960 points	16,000 points
Run Time (Logging Interval) [5]	6 days (1 min.), 15 days (2 min.), 30 days (3 min.), 60 days (6 min.), 90 days (10 min.)	110 days (10 min.) = Standard Model Other models only on request: 11 days (1 min.), 55 days (5 min.), 166 days (15 min.)
Data Export [6]	PDF	PDF & CSV
Alarm Configuration [7]	2 points customizable	Up to 5 points customizable
Startup Mode	Button	Button or tempbase.®-D V2.0 software
Stop Mode [8]	Button	Button or tempbase.®-D V2.0 software

(Changes marked in red)

🌀 Other Specifications

Temporary PDF and CSV Report 9	-	PDF and CSV Report is available at anytime without stopping the Logger
Software 10	PDF reader Optional: tempbase.® Cloud	PDF or CSV reader Optional: tempbase.® Cloud and free desktop software tempbase.®-D
Reprogrammable 11	-	Via tempbase.®-D V2.0 software
Backup-Log-Feature 12	-	Via tempbase.®-D V2.0 software
Incl. Self-Seal Bag + Accessory 13	-	Included - for reprogrammed loggers
Custom ID and Travel Description 14	-	Preconfigured or via tempbase.®-D V2.0 software
Calibration Certificate 15	Yes, 6 points (hardcopy)	Yes, 6 points (hardcopy) & PDF in memory
Certifications	EN 12830, CE, RoHS	EN 12830, CE, RoHS
Serial Number Identification 16	Yes, each device e.g. TMS160300001C	Yes, each device e.g. S116030000-01

(Changes marked in red)

🌀 New Feature Notes

1. Design
There are minimal design changes, the expiry date and version ID is listed on the front of the device, the position of the LEDs has changed, the operating instructions are revised and the logo is updated.

2. Item Number (Standard Model)
The item number has changed (S1C10A01000) to clearly identify the new model.

3. Shelf Life
The shelf life is extended to a maximum of 24 months, but is dependant on the storage conditions.
The optimal storage condition is +15°C to +23°C / 45% to 75% rH. Other conditions can shorten the shelf life!
To guarantee the maximum run time, the tempmate.®-S1 V2 logger must be stopped before the EXPIRY date!

4. Memory Capacity (measurements)
The maximum data storage is 16,000 measurements with date and time stemp + up to 10 markers and optional alarm indication.

5. Run Time (Logging Interval)
The maximum run time is dependant upon the logging interval. The standard device has 10 minutes logging interval and can record for up to 110 days.
Other logging intervals are possible, but should be only choosen if 10 minutes is not sufficient for the application.
The tempmate.®-S1 V2 logger can be stopped at any time, even after one or two days of the maximum 110 days (standard model). Please note: Very low or high application temperatures may also shorten the maximum run time!

6. Data Export
The recorded data will be automatically stored as PDF and CSV files and held within the tempmate.®-S1 V2 memory.

7. Alarm Configuration
Alarm configuration with up to 5 alarm limits is available on request. These limits can be reprogrammed via tempbase.® D software.

8. Software
Any PDF & CSV software can view the recorded reports. There is an optional tempbase.® Cloud and tempbase.® Desktop version available to manage the data and reprogram the logger.

9. Start and Stop by Software

If this optional setting is enabled, any accidental stopping of the logging operation is prevented and the logger can only be stopped by tempbase.®-D software. This can be activated by tempbase.®-D reprogramming (preconfigured devices only on request and depending on quantity).

10. Temporary PDF and CSV Report

If the tempmate.®-S1 V2 is connected to PC, the PDF and CSV report will be automatically generated and available in memory. Even if the logger was not stopped, the reports are available and could be read several times until the logging is stopped.

11. Software

To open the tempmate.®-S1 V2 reports any PDF or CSV reader can be used.
Optional feature: The data can be managed by tempbase.® Cloud solution or free tempbase.®-Desktop software.
Reprogramming of tempmate.®-S1 V2 is possible via tempbase.®-D software (V2.0 or newer).

12. Reprogrammable

The new tempmate.®-S1 V2 can be reprogrammed by the free tempbase.®-Desktop software (V2.0 or newer).
Any settings can be configured individually by the customer.

13. Backup-Log-Feature

Even if the tempmate.®-S1 V2 is stopped, the logger is still recording until the memory is full, or battery is low.
The „Backup-Log" can be generated by tempbase.®-D software (V2.0 or newer) and is not visible on the logger itself.

14. Incl. Self-Seal Bag + Accessory

To reprogram the tempmate.®-S1 V2, the plastic cover must be removed and the data logger connected to PC. After reprogramming, the logger can be placed in the Self-Seal Bag provided to ensure water protection. A sticker and label for the new configuration is also included.

15. Custom ID and Travel Description

The tempmate.®-S1 V2 can be customised with an individual ID or Travel Description.
This can be done by tempbase.®-D reprogramming (preconfigured devices only on request and depending on quantity).

16. Calibration Certificate

The Certificate of Validation is available as hardcopy and also as PDF held in the memory of each tempmate.®-S1 V2.

17. Serial Number Identification

Each tempmate.®-S1 V2 device has an individual, traceable serial number, for example „S1160300001-01".
The last two digits „-01 to -20" indicate the logger number in each 20 pcs box.
Each 20 pcs. box (packing unit) can be identified with the serial number without the two digit suffix „S1160300001".