

# User Manual – tempmate.® -S1

## Single-Use Temperature Logger



### Notes

- When **tempmate.®-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 **tempmate.®-S1** logger cannot be started again.
- Do not place **tempmate.®-S1** logger into corrosive liquid or expose to direct heat.
- The battery of **tempmate.®-S1** loggers is a non-exchangeable CR2450 lithium battery.
- Store **tempmate.®-S1** loggers under room temperature conditions and do not use expired devices
- Please dispose **tempmate.®-S1** loggers in accordance with local laws and regulations (electronic waste).
- To reprogram **tempmate.®-S1** loggers, you need the **tempbase.®-D** software (V2.0 or newer). Please follow the instructions in the extra manual, or visit **www.tempmate.com** for further information.

### 1:1 Time Zone Conversion Table

The standard time of **tempmate.®-S1** is UTC ±0. To match your local time, please note the time difference.

Value	Time Zone
(UTC + 14:00)	Line Islands, Kiritibati
(UTC + 13:00)	Nuku'alofa
(UTC + 12:00)	Auckland, Wellington, Fiji, Karnchatka, Marshall Is.
(UTC + 11:30)	Norfolk Island
(UTC + 11:00)	Magadan, Solomon Is., New Caledonia
(UTC + 10:30)	Lord Howe Island
(UTC + 10:00)	Brisbane, Canberra, Melbourne, Sydney, Hobard, Vladivostok, Guam, Port Moersby
(UTC + 09:30)	Darwin, NT, Australien, Adelaide, SA, Australien
(UTC + 09:00)	Yakutsk, Osaka, Sapporo, Tokyo, Seoul, Adelaide, Darwin
(UTC + 08:00)	Perth, Taipei, Kuala Lumpur, Singapore, Irkutsk, Ulaan Bataar, Beijing, Chongqing, Hong Kong, Urumqi
(UTC + 07:00)	Krasnoyarsk, Bangkok, Hanoi, Jakarta
(UTC + 06:30)	Myanmar, Rangun, Myanmar, Kokosinseln
(UTC + 06:00)	Astana, Dhaka, Yangon (Rangoon), Almaty, Novosibirsk
(UTC + 05:45)	Nepal, Kathmandu
(UTC + 05:30)	Indien, Neu Delh, Mumbai, Kalkutta, Adamanen-Inseln, Nicobar-Inseln
(UTC + 05:00)	Ekaterinburg, Chennai, Kolkata, Mumbai, New Dehli, Kathmandu, Islamabad, Karachi, Sri Jayawardenepura, Tashkent
(UTC + 04:30)	Afghanistan
(UTC + 04:00)	Kabul, Abu Dhabi, Muscat, Yerevan, Baku, Caucasus Standard Time
(UTC + 03:30)	Teheran, Iran
(UTC + 03:00)	Moscow, St. Petersburg, Volgograd, Tehran, Tbilisi, Nairobi, Baghdad, Kuwait, Riyadh
(UTC + 02:00)	Minsk, Cairo, Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius, Athens, Bucharest, Istanbul, Jerusalem, Amman, Beirut, Harare, Pretoria
(UTC + 01:00)	Brussels, Copenhagen, Madrid, Paris, West Central Africa, Sarajevo, Skopje, Warsaw, Zagreb, Belgrade, Bratislava, Budapest, Ljubljana, Prague
(UTC ± 00:00)	Dublin, Edinburgh, Lisbon, London, Monrovia, Reykjavik, Casablanca (standard time of tempmate.®-S1)
(UTC - 01:00)	Azores, Cape Verde Is.
(UTC - 02:00)	Mid-Atlantic
(UTC - 03:00)	Buenos Aires, Brasilia, Greenland, Monetvideo, Newfoundland, Georgetown
(UTC - 03:30)	Newfoundland, Kanada, Surinam
(UTC - 04:00)	Atlantc Time (Canada), Manaus, Santiago, La Paz, Caracas
(UTC - 05:00)	Eastern Time (US & Canada), Bogota, Lima, Quito, Rio Branco
(UTC - 06:00)	Central Time (US & Canada), Guadalajara, Mexico City, Monterrey, Central America
(UTC - 07:00)	Mountain Time (US & Canada), Arizona, Chihuahua, La Paz, Mazatlan
(UTC - 08:00)	Pacific Time (US & Canada)
(UTC - 09:00)	Alaska
(UTC - 10:00)	Hawaii
(UTC - 11:00)	Midway Island, Samos
(UTC - 12:00)	International Date Line West

tempmate.®



**CAUTION**  
Temperature monitoring in progress.

#### General Information

Shipper

Container No.

Truck No.

B/L No.

Ref No.

Contents

Logger Serial No.

Start Date

Start Time

Departure Port

Arrival Port

Temperature Required

°C °F

Attach tempmate.®-S1 logger  
**HERE**

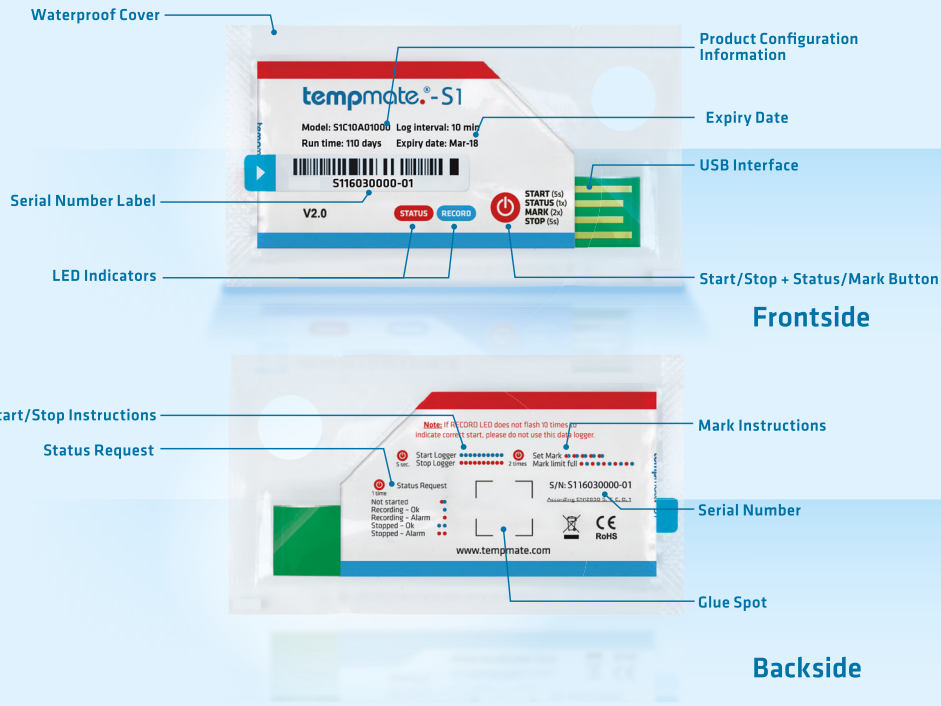


For more information about tempmate.®-S1 temperature loggers, please visit our website.

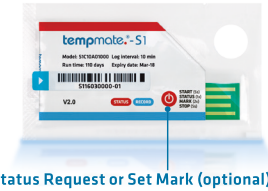
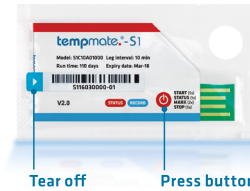
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## Single-Use Temperature Logger

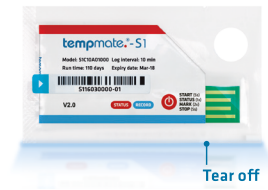


### Operation Instructions



01 Keep button pressed for minimum 5 seconds to start recording. Then **RECORD LED** flashes 10 times, which indicates a successful starting. If **STATUS LED** is lit for 3 seconds, please do not use the logger (indicating low battery)! Tear off serial number label for your reference.

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.



03 Keep button pressed for minimum 5 seconds to stop recording. Then **STATUS LED** flashes 10 times, which indicates a successful stopping.

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

### Product Overview

This document describes specific validation procedures for tempmate.®-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

<b>Recording Options</b>	Single-Use
<b>Temperature Range</b>	-30 °C to 70 °C
<b>Temperature Accuracy</b>	±0.5 (-20°C/+40°C); ±1.0 (other range)
<b>Temperature Resolution</b>	0.1 °C
<b>Data Storage Capacity</b>	16.000 readings
<b>Shelf Life / Battery</b>	2 years <sup>1</sup> / CR2450 button cell
<b>Recording Interval</b>	10 minutes (standard, others on request)
<b>Recording Duration</b>	up to 110 days <sup>2</sup> (standard, others on request)
<b>Startup Mode</b>	Button or software
<b>Stop Mode</b>	Button, software or stop when full
<b>Protection Class</b>	IP67 / NEMA 6
<b>Dimensions</b>	83 mm × 47 mm × 7 mm (L × W × H)
<b>Weight</b>	14.6 g

<b>Certifications</b>	EN 12830, CE, RoHS
<b>Validation Certificate</b>	Hardcopy and PDF file in memory
<b>Software</b>	PDF or CSV Reader / <b>tempbase.®-D</b> optional
<b>Report Generation</b>	Automatic PDF & CSV report
<b>Password Protection</b>	Optional on request
<b>Connection Interface</b>	USB 2.0, A-Type
<b>Alarm Configuration</b>	Optional, up to 5 points
<b>Reprogrammable</b>	With free <b>tempbase.®-D</b> software
<b>Accessories incl.</b>	Shipping Documents, Certificate, Re-program Label and Seal-Bag

1 Depending on optimal storage conditions (+15°C to +23°C / 45% to 75% rh)  
 2 Depending on application temperature (very low / high temperatures may shorten it)

### Operation Indication

#### Start / Stop

Status	Action	LED confirmation
Start Logger	5 sec pushing button	<b>RECORD LED</b> flashing 10 times ●●●●●●●●●●
Set Mark	double-click button	<b>STATUS LED</b> + <b>RECORD LED</b> flashing 5 times ●●●●●●
Stop Logger	5 sec pushing button	<b>STATUS LED</b> flashing 10 times ●●●●●●●●●●

#### Status Request by pushing Button 1 time

Status	Action	LED confirmation
Not Started	push button 1 time	<b>STATUS LED</b> + <b>RECORD LED</b> flashing 1 time ●●
Recording – OK	push button 1 time	<b>RECORD LED</b> flashing 1 time ●
Recording – Alarm	push button 1 time	<b>STATUS LED</b> flashing 1 time ●
Stopped – OK	push button 1 time	<b>RECORD LED</b> flashing 2 times ●●
Stopped – Alarm	push button 1 time	<b>STATUS LED</b> flashing 2 times ●●