



# tempmate.-C1 Single Use Temperature Data Logger User Manual

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**tempmate.-C1 Single Use Temperature Data Logger**



## Product Information

The product is designed to empower your supply chain. It is a device with a USB port, start button, and stop button. It features a display for menu navigation and temperature recording.

## Intended Use

The product is intended for use in supply chain management.

## Device Description

- USB Port
- Start Button
- Stop Button

## Display

The display allows for menu navigation and shows temperature recordings. It has the following functionalities:

- To scroll through the menu, press the green start button several times in quick succession.
- The display changes from the current temperature display to the maximum recorded temperature value, then to the minimum, and finally to the average value of the current recording.
- Pressing the button again takes you back to the current temperature display.
- To display the remaining usage time of the device, press the red stop button. The effective recording time depends on the selected measuring interval.
- **Important:** The total running time of 90 days with 24 hours each will be deducted per hour after the start.

## Operation and Use

### STEP 1 Configuration (optional)

This step is only necessary if you want to adjust the pre-installed configuration to your application. Follow these steps:

1. Download the free tempbase.-Cryo software from <https://www.tempmate.com/de/download/>.
2. Install the tempbase.-Cryo software on your PC.
3. Remove the cap and connect the unbooted logger to your PC.
4. Open the tempbase.-Cryo software. The configuration screen is displayed directly.
5. Make the desired settings and save them via the menu item "Save Parameter (1)" onto your device.
6. Remove the logger from your PC and replace the cap securely.

### STEP 2 Start logger (manually)

To manually start the logger, follow these steps:

1. Press and hold the green start button for 5 seconds.
2. A successful start is indicated by "bEGn" on your device display.
3. **Important:** If a different signal or no signal appears, do not use the logger and contact our support via [support@tempmate.com](mailto:support@tempmate.com). The device display is disabled until the device has been successfully started.

#### Alternative start modes:

- **Start via software (optional):** This setting can be made in the tempbase.-Cryo software. The start is triggered automatically as soon as the device is disconnected from the PC.
  - **Important:** A manual start is not possible with this configuration.
- **Timed start (optional):** This setting can be made in the tempbase.-Cryo software. The device will start according to the time set in the configuration software. Important: A manual start is not possible in this configuration. Important: When setting a start delay, the display shows a countdown of the selected time period.

### STEP 3 Set mark

To set a mark during the recording process, follow these steps:

1. Press the green start button twice in quick succession.
2. As soon as the device records the marking, the symbol appears.
3. Once the symbol disappears, the marking process is completed.
4. Important: Only one mark is possible per measuring interval.

### STEP 4 Temporary Evaluation

To perform a temporary evaluation of the recorded data, follow these steps:

1. Connect your started or paused device to your PC.
2. A temporary report will be generated automatically.
3. Save your report and remove the logger from your PC again.
4. **Important:** If you connect the logger to your PC in the started mode, the recording will continue also in this moment. In order to be able to assign any fluctuations in your measurement results, we advise you to set a mark before and after the temporary readout (see STEP 3).

## Intended Use

The tempmate.®-C1 is a single-use temperature data logger specifically designed to monitor temperature during transportation of products that must be stored at extremely low temperatures. Any use or operation that requires specific requirements and standards not specifically mentioned in the data sheet must be validated and tested at the customer's own responsibility.

## Device Description



## Display



## Menu navigation



- To scroll through the menu, press the green start button several times in quick succession.
- The display changes from the current temperature display first to the maximum recorded temperature value, then to the minimum and finally to the average value of the current recording.
- Pressing the button again takes you back to the current temperature display.
- To display the remaining usage time of the device, press the red stop button. The effective recording time depends on the selected measuring interval.

**Important:** The total running time of 90 days with 24 hours each will be deducted per hour after the start

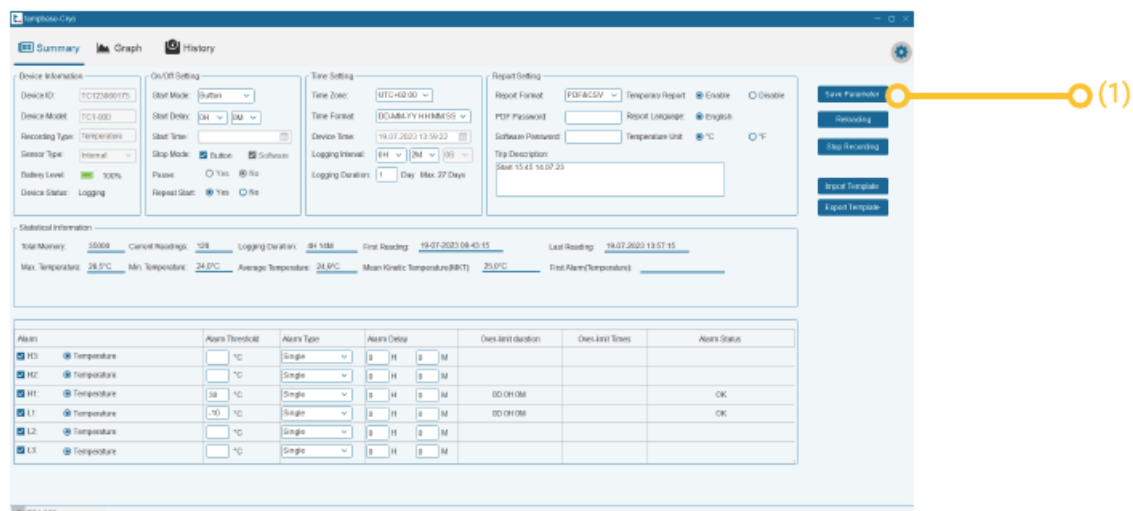
**Important:** The total running time of 90 days with 24 hours each will be deducted per hour after the start

## Operation and Use

### STEP 1 Configuration \*optional

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

- Download the free tempbase.-Cryo software. <https://www.tempmate.com/de/download/>.
- Install the tempbase.-Cryo software on your PC.
- Remove the cap and connect the unbooted logger to your PC.
- Open the tempbase.-Cryo software. The configuration screen is displayed directly.
- Make the desired settings and save them via the menu item „Save Parameter“ (1) onto your device.
- Remove the logger from your PC and replace the cap securely.



### STEP 2 Start logger (manually)

- Press and hold the green start button for 5 seconds.
- A successful start is indicated by bEGn on your device display.

**Important:** If a different signal or no signal appears, do not use the logger and contact our support via [support@tempmate.com](mailto:support@tempmate.com). The device display is disabled until the device has been successfully started.

### Alternative start modes

Start via software (optional)

- This setting can be made in the tempbase.-Cryo software. (see STEP 1)
- The start is triggered automatically as soon as the device is disconnected from the PC.

**Important:** A manual start is not possible with this configuration.

**Timed start:** (optional)

- This setting can be made in the tempbase.-Cryo software. (see STEP 1)
- The device will start according to the time set in the configuration software.




**Important:** A manual start is not possible in this configuration.

**Important:** When setting a start delay, the display shows a countdown of the selected time period.

**Example**



### STEP 3 Set mark

- Press the green start button  twice in quick succession.
- As soon as the device records the marking, the symbol  appears.
- Once the symbol  disappears, the marking process is completed.


**Important:** Only one mark is possible per measuring interval.

### STEP 4 Temporary Evaluation

- Connect your started or paused device to your PC.
- A temporary report will be generated automatically .
- Save your report and remove the logger from your PC again.

**Important:** If you connect the logger to your PC in the started mode, the recording will continue also in this moment. In order to be able to assign any fluctuations in your measurement results, we advise you to set a mark before and after the temporary readout (see STEP 3).

### STEP 5 Stop Logger (manual)

- Press and hold the red stop button  for 5 seconds.
- The display switches off after a successful stop.

**Important:** In the stopped state, a short press of any key is sufficient to view the max., min. and average value of the last recording.

**Important:** The device stops automatically when the memory is full.




## Alternative stop modes

### Stop by Software (optional)

- Open the tempbase.-Cryo software and connect your unstopped tempmate.®-C1 to your PC. (see STEP 1)
- Select the „Stop recording“ menu item to stop the device.
- STEP 6 Evaluation
- Connect the stopped logger to your PC.
- The display will show PdF and/or CSu to indicate that the respective reports are being generated.
- Once the report is generated, the display will show USb .
- The logger can now be disconnected from the PC.
- The logger can now be disconnected from the PC.

**Important:** Always make sure that this step is performed before restarting the device. If the device is restarted, all old data will be overwritten.

## Important Notes

- If the icon  is displayed on the screen, the logger needs to be reconfigured
- When  is displayed on the screen, it means that the battery level of the logger is too low to record for more than another 10 days.
- If the icon  is displayed, the logger's battery is too low to record.
- The configuration of your device cannot be changed during recording.
- Always dispose of batteries according to your country's regulations.
- Do not place the device in corrosive liquids or expose it to direct heat.

## Main Technical Specifications tempmate.®-C1



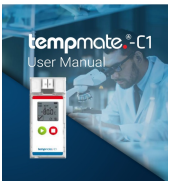
- Model Dry Ice / Low-Temperature Data Logger
- Part Number TC1-000
- Usage Single-Use / Multi Start/Stop within 90 days possible
- Temperature Range -90°C to +70°C
- Accuracy  $\pm 0.5^{\circ}\text{C}$  (-30°C to +70°C)  $\pm 1.0^{\circ}\text{C}$  (others)
- Resolution 0.1°C
- Memory Capacity 20.000 Readings using PDF & CSV (default)
- 35.000 Readings using PDF only (optional)
- Connection USB

- Indication LCD
- Battery 3.6V Lithium Battery
- Runtime Max. 90 days
- Dimensions 96mm(L) \* 44mm(W) \* 15mm(H)
- IP Protection IP65
- Mark Max. 9 points
- Alarm Max. 6 points
- Logging Interval 1 minute – 24 hours
- Start Delay 1 minute – 24 hours
- Report Format PDF/CSV
- Software Free template-Cryo Software for Windows systems
- Certifications CE, RoHS, EN12830, RTC-DO160
- Shelf-Life 2 Years

## Contact Information\$

- Do you have any questions? Please contact us – our experienced team will be happy to support you.
- [sales@tempmate.com](mailto:sales@tempmate.com).
- +49 7131 6354 0
- template GmbH
- Wannenäckerstr. 41
- 74078 Heilbronn, Germany
- Tel. +49-7131-6354-0
- [sales@tempmate.com](mailto:sales@tempmate.com).
- [www.tempmate.com](http://www.tempmate.com).

## Documents / Resources

	<p><a href="#">tempmate tempmate.-C1 Single Use Temperature Data Logger</a> [pdf] User Manual tempmate.-C1, Single Use Temperature Data Logger, tempmate.-C1 Single Use Temperature Data Logger, Temperature Data Logger, Data Logger</p>
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## References

- [t. tempmate.® Downloadbereich](#)