

tempmate.<sup>®</sup>

# tempmate.<sup>®</sup>-C1

Cryo & Dry-Ice Monitoring Solution



## Benefits



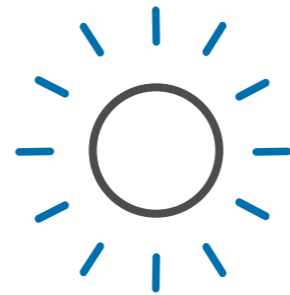
### DRY ICE

Your tempmate.®-C1 can record temperatures as low as  $-90^{\circ}\text{C}$  and thus even provide a reliable overview of your dry ice transports. For this purpose, the entire device is developed in such a way that every single component, be it the electronics or the housing, can withstand extreme temperatures from  $-90^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  without any problems.



### SIMPLE

One push of a button and off you go. You will receive your tempmate.®-C1 pre-configured and ready for immediate use. The simple system, consisting of only 2 buttons, allows you to operate the device completely. Your tempmate.®-C1 does not require any accessories and can therefore be used anywhere and at any time. All you need is a PC with a USB connection to read out the data, PDF and CSV reports are generated automatically.



### CAREFREE

Tailoring a logger to your needs is child's play with the tempmate.®-C1. The free tempbase-Cryo software guides you through a simple configuration menu to your perfect data logger. The device's validation certificate can be found directly on the device's memory, so you can't lose it. The generous LCD gives you insight into the current status of your monitoring at any time.



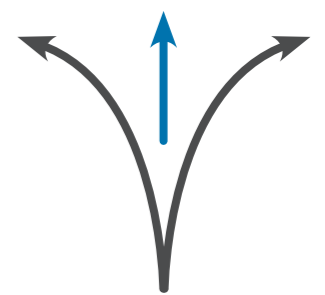
### SAFE

Up to 6 alarm limit values adapted to your goods offer you the possibility to react early to deviations of your temperature ranges. Different alarm modes support you in adjusting the alarm settings of your tempmate.®-C1 to the highest security during the monitoring. In addition, the adjustable password protection gives you the security that nobody but you can access your important data.



### PROTECTED

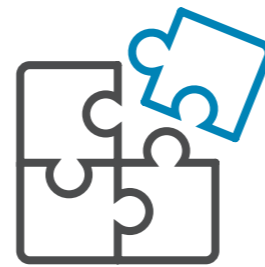
The robust housing of your tempmate.®-C1 protects your important data not only from extreme temperatures, but also from shocks and other external forces. Thanks to the removable protective cap of the USB port, it remains accessible without compromising the protection of the hardware during use. This also applies to the IP protection class of the device.



### FLEXIBLE

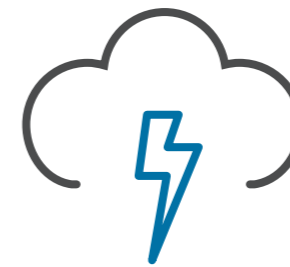
The tempmate.®-C1 is fully configurable by the customer, allowing you to tailor it to your exact application. Start and stop modes, log interval and alarms, the device adapts to your needs and requirements. The 24 months shelf-life and up to 90 days runtime offer you a lot of freedom in scheduling your resources. Are you planning multiple deployments? Within the maximum of 90 days, you can start and stop your tempmate.®-C1 multiple times.

# Application



## ELABORATE PROCESS IMPLEMENTATIONS.

For a process to run smoothly, the correct implementation of a new component is essential. Only then optimizations can take place without creating unnecessary extra work in other places. The tempmate®-C1 takes most of the work for you with its flexible application options. It is operated using only 2 buttons and a status request requires only a glance at the display.



## INFINITE POSSIBLE ERROR SOURCES.

Different transport routes, loading, delays, packaging or even human error, the list of possible sources of error in your cryo supply chain seems endless. Fortunately, the tempmate®-C1 can accompany almost every step of your process. This way you can detect every critical point in your production and supply chain and make optimizations not only to minimize loss of goods but also to keep your quality standards high at all times.



## KEEP AN EYE ON ALL REGULATIONS.

We have already done that for you with the tempmate®-C1. The case itself is made from robust material to ensure that your important data is kept safe during the entire transport. In addition, the device is CE, EN12830, RoHS, RTC DO-160 certified and therefore suitable for many different applications. To meet possible security standards, the tempmate®-C1 also offers the possibility to program password protection.

## tempbase-Cryo Software

The screenshot displays the tempbase-Cryo software interface, which is divided into several sections for configuring the device. At the top, there are tabs for Summary, Graph, and History. The main configuration area includes:

- Device Information:** Fields for Device ID, Device Model, Recording Type, Sensor Type, Battery Level (N/A), and Device Status (N/A).
- On/Off Setting:** Start Mode, Start Delay, Start Time, Stop Mode (Button/Software), Pause (Yes/No), and Repeat Start (Yes/No).
- Time Setting:** Time Zone, Time Format, Device Time, Logging Interval, and Logging Duration (Day).
- Report Setting:** Report Format, PDF Password, Software Password, Trip Description, Temporary Report (Enable/Disable), Report Language (Simplified Chinese/English), and Temperature Unit (°C/°F).

Below the configuration sections are buttons for Save Parameter, Reloading, Stop Recording, Import Template, and Export Template. A Statistical Information section provides fields for Total Memory, Current Readings, Logging Duration, First Reading, Last Reading, Max. Temperature, Min. Temperature, Average Temperature, Mean Kinetic Temperature (MKT), First Alarm (Temperature), Max. Humidity, Min. Humidity, Average Humidity, and First Alarm (Humidity). At the bottom, there is an Alarm configuration table with columns for Alarm, Alarm Threshold, Alarm Type, Alarm Delay, Over-limit duration, Over-limit Times, and Alarm Status. The table lists five alarm levels (H3, H2, H1, L1, L2, L3) with checkboxes for Temperature and Humidity, and dropdown menus for Alarm Type and Alarm Delay. A status bar at the bottom left indicates "Device disconnected".

One of the most critical challenges in cryo applications is **maintaining optimal temperature** conditions throughout the entire process. Whether it's the storage and transportation of medical specimens, biologics, or perishable goods, precise temperature monitoring is of utmost importance.

The tempmate.®-C1 is **ready for use** the moment you hold it in your hands. Due to its **pre-configuration**, you only need to press the green start button to start the device and thus the recording of your data.

But what can you do if the pre-set configuration does not fit your needs? We give you the opportunity to **configure your tempmate.®-C1** with the associated tempbase-Cryo software **free of charge** according to your wishes and specifically to the requirements of your goods.

- > Free download
- > Individual configuration
- > Up to 6 alarm limits
- > Configurable password protection
- > No accessories necessary
- > Different start and stop modes
- > Increase device memory \*

\* by disabling CSV option (only PDF) from 20.000 to 35.000 readings



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	±0.5°C (-30°C to 70°C) ±1.0°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 tempbase-Cryo Software for Windows
Certifications	CE, RoHs, EN12830, RTC-DO160
Shelf-Life	2 Years

