

DATASHEET
tempmate.®-C1
The ultra-low temperature datalogger





MAIN TECHNICAL SPECIFICATIONS tempmate.®-C1

Usage Type	Single-Use (Multiple Start/Stop within 90 days possible)
Monitored Information	Dry Ice / Low Temperature
Dimension [mm]	96 mm x 44 mm x 15 mm (L x W x H)
Weight [g]	42 g
Casing	PC
Battery	3.6V Lithium Battery (Lithium Thionyl Chloride Battery) / non-replaceable
Temperature Range	-80 °C to +70 °C
Temperature Accuracy	±0.5 °C (-30 °C to +70 °C); ±1.0 °C (-80 °C to < -30 °C)
Temperature Resolution	0.1 °C
T90	3 min (internal sensor)
Indication / Display	LED indication & Multifunctional LCD
Protection Class	IP65
Shelf Life	24 months*
Connection Interface	USB 2.0, A-Type
Memory Capacity (measurements)	20,000 readings using PDF & CSV (default) 35,000 readings using PDF only (optional)
Run Time	Up to 90 days (depending on temperature range & logging interval)
Logging Interval	Default: 10 min.; Programmable: 1 min. - 23h 59min.
Startup Mode	Button, scheduled start, start through tempbase Cryo Software
Stop Mode	Button or through tempbase Cryo Software
Alarm Configuration	Up to 6 alarm limits customizable, single or cumulative via tempbase Cryo Software

OTHER SPECIFICATIONS

Temporary PDF	The PDF Report is available at any time without stopping the Logger
Conformity	EN 12830, CE, RoHS, RTC-DO-160, MSDS
Validation Certificate	6 points (hardcopy) & PDF in memory
Reprogrammable	Yes, via tempbase Cryo Software
Report Generation	Automatic PDF & CSV report
Password Protection	Optional on request
Backup-Log-Feature	Yes
Accessories incl.	Validation Certificate

* Since environmental influences can affect the lifespan of batteries, we recommend that all our products be stored in the conditions that are optimal for them. In this way, the shelf life given at the time of purchase can be guaranteed.
Optimal storage conditions: +15°C to +23°C / 45% to 75% rH.

 **While being used in very low temperatures or dry ice, the battery level may be displayed incorrectly; it will return to normal once the device has acclimated to room temperature. Temperatures below -80 °C are outside the specified temperature range. Prolonged or repeated exposure below -80 °C may affect recording duration and time accuracy.**



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PLEASE, contact us for further questions.