

DATASHEET

tempmate.®-GM2

The rechargeable real-time monitoring solution





MAIN TECHNICAL SPECIFICATIONS tempmate.®-GM2

Usage Type	Multi-Use
Monitored Information	Temperature, rel. Humidity, Location, Light, Tilt, Shock
Dimension [mm]	103 mm × 65,6 mm × 18,5 mm (L × W × H)
Weight [g]	160 g
Casing	Polycarbonate
Battery	Lithium Battery: Li-ion battery 3500 mAh (rechargeable)
Temperature Range	-30 °C to +70 °C (-40 °C to +80 °C with ext. Sensor GM2-TN0) (-200 °C to +100 °C with ext. Sensor GM2-TX0)
Temperature Accuracy	±0,5 °C (-20 °C to +40 °C); ±1 °C (other range)
Temperature Resolution	0.1 °C
T90	5 min (internal sensor)
Ambient Light Sensor	0 to 52000 lx / Accuracy 1 lx
Humidity Range	5 - 95% RH
Humidity Accuracy	±3% RH (20 to 80% RH); ±5% (others, at 25 °C)
Humidity Resolution	1% RH
Shock Indicator	Shock detection (8 indicator ranges)
Tilt Indicator	Tip-over detection (change of tilt >90°)
External Sensor	Available as ext. Sensor GM2-TX0
Indication / Display	Multifunctional LCD
Protection Class	IP 65
Battery Life	Minimum 24 months*
Connection Interface	USB 2.0
Location	LBS - GSM Localization
Connectivity	Global LTE 4G/5G, fallback 2G network

Automatic Flight Mode	Automatic Flight Detection (no Transmission; Airline Approvals available)
Memory Capacity (measurements)	on tempmate.®-Cloud - unlimited on local Data Storage: 50,000 readings
Run Time	Up to 120 days (with standard log interval of 10 min. and transmission interval of 240 min.)
Logging Interval	Default: 10 min.; Programmable: 1 min. - 60 min.
Transmission Interval	Default: 120 min.; Programmable: 10 min. - 1440 min.
Startup Mode	Button or through tempmate.®-Cloud
Stop Mode	Button or through tempmate.®-Cloud
Alarm Configuration	Up to 6 alarm limits customizable, single or cumulative via tempmate.®-Cloud

OTHER SPECIFICATIONS

Temporary PDF	The PDF Report is available at anytime without stopping the Logger via tempmate.®-Cloud
Conformity	EN 12830, CE, RoHS, RTC-DO-160, MSDS
Validation Certificate	Available as PDF via tempmate.®-Cloud
Reprogrammable	Yes, via tempmate.®-Cloud
Report Generation	Available in the tempmate.®-Cloud and locally in the device through the USB 2.0 interface
Password Protection	Cloud Password Protection

★ 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.



Attention: For stationary use we recommend the usage of an external sensor to avoid deviations of temperature.



MAIN TECHNICAL SPECIFICATIONS tempmate.®-GM2 Accessories

tempmate.®-GM2 External T-Sensor (GM2-TN0)

Sensor Type	HQ Digital Temperature
Temperature Range	−40 °C to +80 °C
Temperature Accuracy	±0.5 °C (−20 °C to +40 °C); ±1.0 °C (other range)
Temperature Resolution	0.1 °C
Sensor Tip	Stainless Steel (40 x 6 mm)
Sensor Connection	GM2-Sensor Connection
Cable Length	1 m
Cable Diameter	3 mm
Cable Material	PVC

tempmate.®-GM2 External T-Sensor (GM2-TX0)

Sensor Type	HQ Digital Temperature
Temperature Range	−200 °C to +100 °C
Temperature Accuracy	±0.5 °C (−20 °C to +40 °C); ±1.0 °C (other range)
Temperature Resolution	0.1 °C
Sensor Tip	Stainless Steel (60 x 5 mm)
Sensor Connection	GM2-Sensor Connection
Cable Length	1 m
Cable Diameter	4 mm
Cable Material	PVC

A person wearing a white lab coat is holding a tablet computer. The background is a blurred clinical or laboratory setting with various pieces of equipment. The entire image has a blue color overlay.

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PLEASE, contact us for further questions.