

DATASHEET

tempmate.®-GS2

The real-time temperature datalogger





MAIN TECHNICAL SPECIFICATIONS tempmate®-GS2 T

Usage Type	Single-Use (3x Start/Stop within 90 days for Non-Lithium option or 120 days for Lithium option possible)
Monitored Information	Temperature, Location, Light, Tilt, Shock
Dimension [mm]	103 mm x 64 mm x 23 mm (L x W x H) for Lithium and 103 mm x 64 mm x 30 mm (L x W x H) for Non-Lithium
Weight [g]	130 g for Lithium and 175 g for Non-Lithium
Casing	Polycarbonate
Battery	All GS2 models available in Lithium and Non-Lithium option Lithium Battery: Li-ion Polymer Battery 2400 mAh Non-Lithium Battery: Ni-MH Battery 2000 mAh
Temperature Range	-30 °C to +70 °C
Temperature Accuracy	±0,3 °C (-10 °C to +45 °C); ±0.5 °C (other range)
Temperature Resolution	0.1 °C
T90	5 min (internal sensor)
Ambient Light Sensor	0 to 10000 lx / Accuracy 0,01 lx
Humidity Range	NONE
Humidity Accuracy	NONE
Humidity Resolution	NONE
Shock Indicator	Shock detection (8 indicator ranges)
Tilt Indicator	Tip-over detection (change of tilt >90°)
External Sensor	NONE
Indication / Display	LED indication & Multifunctional LCD
Protection Class	IP 65
Shelf Life	Lithium Battery devices: 16 months shelf life Non-Lithium Battery devices: 15 months shelf life

Connection Interface	USB 2.0
Location	LBS - GSM Localization
Connectivity	LTE 4G cat 1 with 2G Fallback
Automatic Flight Mode	Automatic Flight Detection (no Transmission; Airline Approvals available)
Memory Capacity (measurements)	on tempmate®-Cloud - unlimited on local Data Storage: 24,200 readings
Run Time	Lithium Battery: Up to 120 days (with standard log interval of 10 min. and transmission interval of 240 min.) Non-Lithium Battery: Up to 90 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: 240 min.; Programmable: 10 min. - 1440 min.
Startup Mode	Button
Stop Mode	Button or through 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, EMC, FCC
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.



MAIN TECHNICAL SPECIFICATIONS tempmate®-GS2 TH

Usage Type	Single-Use (3x Start/Stop within 90 days for Non-Lithium option or 120 days for Lithium option possible)
Monitored Information	Temperature, rel. Humidity, Location, Light, Tilt, Shock
Dimension [mm]	103 mm × 64 mm × 23 mm (L × W × H) for Lithium and 103 mm × 64 mm × 30 mm (L × W × H) for Non-Lithium
Weight [g]	130 g for Lithium and 175 g for Non-Lithium
Casing	Polycarbonate
Battery	All GS2 models available in Lithium and Non-Lithium option Lithium Battery: Li-ion Polymer Battery 2400 mAh Non-Lithium Battery: Ni-MH Battery 2000 mAh
Temperature Range	-30 °C to +70 °C
Temperature Accuracy	±0,3 °C (-10 °C to +45 °C); ±0.5 °C (other range)
Temperature Resolution	0.1 °C
T90	5 min (internal sensor)
Ambient Light Sensor	0 to 10000 lx / Accuracy 0,01 lx
Humidity Range	0 - 100% 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	NONE
Indication / Display	LED indication & Multifunctional LCD
Protection Class	IP 65
Shelf Life*	Lithium Battery devices: 16 months shelf life Non-Lithium Battery devices: 15 months shelf life

Connection Interface	USB 2.0
Location	LBS - GSM Localization
Connectivity	LTE 4G cat 1 with 2G Fallback
Automatic Flight Mode	Automatic Flight Detection (no Transmission; Airline Approvals available)
Memory Capacity (measurements)	on tempmate®-Cloud - unlimited on local Data Storage: 24,200 readings
Run Time	Lithium Battery: Up to 120 days (with standard log interval of 10 min. and transmission interval of 240 min.) Non-Lithium Battery: Up to 90 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: 240 min.; Programmable: 10 min. - 1440 min.
Startup Mode	Button
Stop Mode	Button or through tempmate®-Cloud
Alarm Configuration	Up to 6 alarm limits customizable, single or cumulative via tempmate®-Cloud

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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

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Optimal storage conditions: +15°C to +23°C / 45% to 75% rH.



MAIN TECHNICAL SPECIFICATIONS tempmate.®-GS2 TE

Usage Type	Single-Use (3x Start/Stop within 90 days for Non-Lithium option or 120 days for Lithium option possible)
Monitored Information	(Ultra Low) Temperature, Location, Tilt, Shock
Dimension [mm]	"103 mm × 64 mm × 23 mm (L × W × H) for Lithium and 103 mm × 64 mm × 30 mm (L × W × H) for Non-Lithium"
Weight [g]	"130 g for Lithium and 175 g for Non-Lithium"
Casing	Polycarbonate
Battery	"All GS2 models available in Lithium and Non-Lithium option Lithium Battery: Li-ion Polymer Battery 2400 mAh Non-Lithium Battery: Ni-MH Battery 2000 mAh"
Temperature Range	-200 °C to +100 °C
Temperature Accuracy	±0,5 °C (-10 °C to +45 °C); ±0.5 °C (other range)
Temperature Resolution	0.1 °C
T90	5 min (internal sensor)
Ambient Light Sensor	NONE
Humidity Range	NONE
Humidity Accuracy	NONE
Humidity Resolution	NONE
Shock Indicator	Shock detection (8 indicator ranges)
Tilt Indicator	Tip-over detection (change of tilt >90°)
External Sensor	PT100 (cable length: 1 m, length of probe 6cm length, 4 mm in diameter, sensor tip: stainless steel)
Indication / Display	LED indication & Multifunctional LCD
Protection Class	IP 65
Shelf Life	"Lithium Battery devices: 16 months shelf life Non-Lithium Battery devices: 15 months shelf life"

Connection Interface	USB 2.0
Location	LBS - GSM Localization
Connectivity	LTE 4G cat 1 with 2G Fallback
Automatic Flight Mode	Automatic Flight Detection (no Transmission; Airline Approvals available)
Memory Capacity (measurements)	"on tempmate.®-Cloud - unlimited on local Data Storage: 24,200 readings"
Run Time	"Lithium Battery: Up to 120 days (with standard log interval of 10 min. and transmission interval of 240 min.) Non-Lithium Battery: Up to 90 days (with standard log interval of 10 min. and transmission interval of 240 min.)"
Logging Interval	Default: 10 min.; Programmable: 1 min. - 60 min.
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PLEASE, contact us for further questions.