

# signatrol



## TEMPMATE-GS2

**REAL-TIME DATA LOGGER FOR TEMPERATURE, HUMIDITY, LIGHT AND LOCATION**

Stay online and well-informed to avoid unpleasant surprises with the Tempmate-GS2. The data logger provides global monitoring in real time, can be programmed easily via the tempmate Cloud and is available for immediate use.

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## END-TO-END MONITORING OF THE ENTIRE SUPPLY CHAIN

- ▶ REAL-TIME TRACKING
- ▶ PREDICTIVE ALERT
- ▶ AVAILABLE WORLDWIDE
- ▶ END-TO-END MONITORING OF THE ENTIRE SUPPLY CHAIN
- ▶ SIMPLE CONFIGURATION
- ▶ ALL-IN-ONE
- ▶ WIDE RANGE OF APPLICATION
- ▶ GLOBAL GSM CONNECTIVITY
- ▶ SIX MODEL VARIANTS ( 3 VERSIONS EACH WITH TWO BATTERY OPTIONS)

Thanks to GSM and cloud support, the real time tracking means you can check the status of your goods at any time. With the help of highly sensitive sensors the alarm messages are sent immediately. Regardless of whether you wish to monitor temperature, humidity or incidence of light. Global GSM connectivity means that tracking and monitoring is possible in real time. You can check the status of your goods comfortably and reliably from any location with the help of tempmate cloud.

It has a predictive alert with the help of intelligent settings of several alarm limit values, negative trends can be detected and eliminated in time before it is too late. The built-in SIM card provides with worldwide GSM connectivity, which is completely flexible, without a contract term and, moreover, data volume is included. Continuous live monitoring is guaranteed.

With Tempmate-GS2 you can monitor your goods in real time directly after dispatch till the delivery and simultaneously to have a record of all relevant measurement data. This ensures that temperature and humidity limit values are observed. In case of light (e.g. if a package is opened) alarms will also be recorded and alarms will be sent in real time. Since the location is also traced via GSM, the actions can be taken on time. Devices can be conveniently configured, managed and monitored in real time with the help of tempmate cloud. If preconfigured parameters do not meet your requirements, they can be adjusted with just a few clicks in the tempmate cloud.

A “carefree” all-in-one solution without hidden additional costs: hardware, Cloud access, SIM chip (worldwide coverage) and data package are all included in the price. With the help of various sensors and the high quality of components, the logger can not only measure the ambient variables with a high degree of accuracy but it also sends a notification if a package was opened, for example. You can rely on the device and be sure that your goods will be delivered in a perfect condition.

## THE LATEST HARDWARE AND THE MOST UP-TO-DATE TECHNOLOGY

### SMART POWER MANAGEMENT

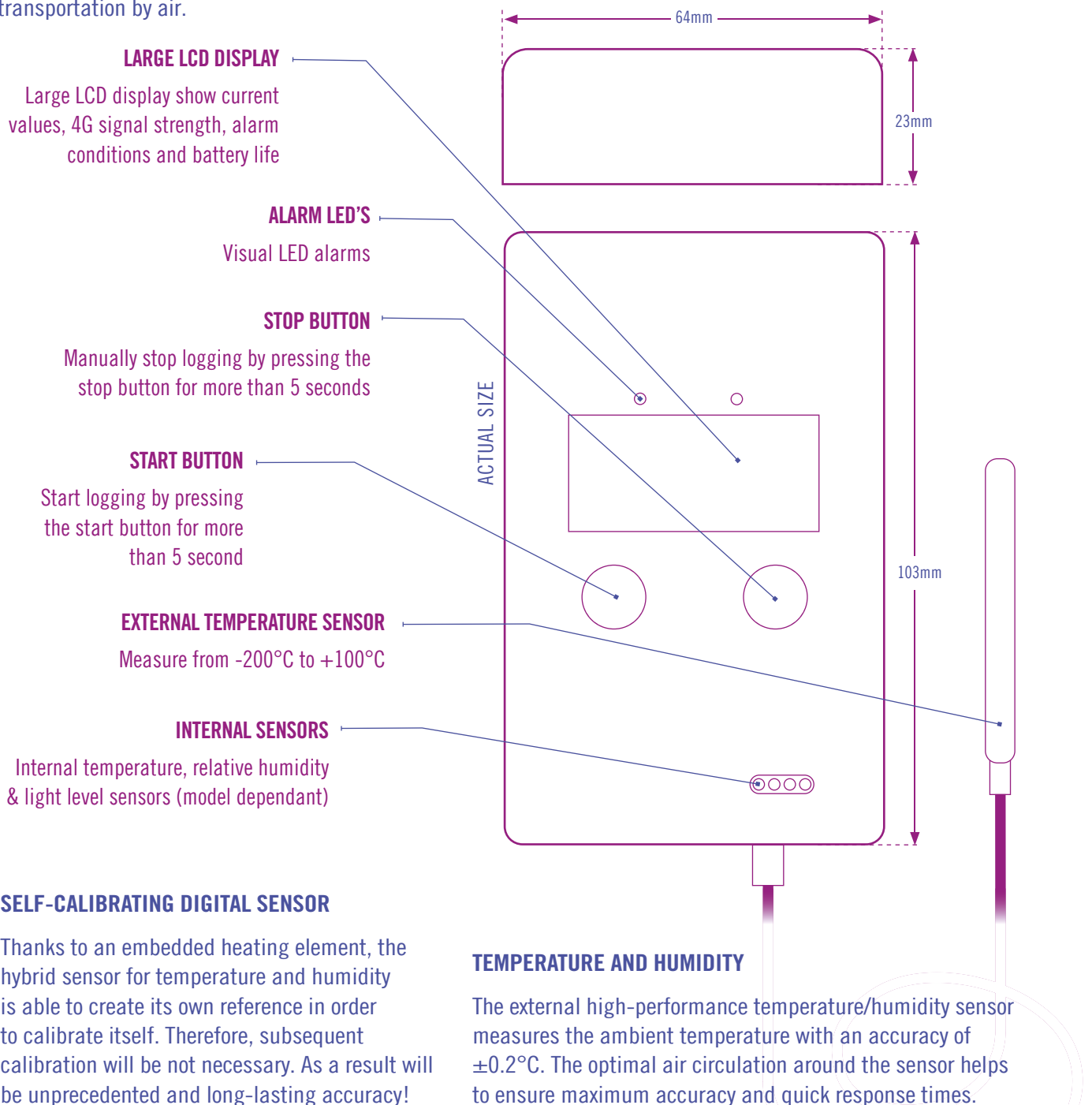
Intelligent power management ensures a battery life time for 90 days with the standard settings, even with icy temperatures (up to  $-30^{\circ}\text{C}$ ) or with high heat (up to  $+70^{\circ}\text{C}$ ). Additionally, integrated batteries were optimised for transportation by air.

### AVAILABLE WORLDWIDE

The embedded Quad band modem guarantees worldwide connectivity. In addition to measurement values of the data logger, a location will be recorded and transmitted with the help of the Cell ID.

### ALWAYS UP-TO DATE

Directly after starting it will be checked if a new firmware is available. In spite of how old the device is, the firmware will be always up-to-date.



### SELF-CALIBRATING DIGITAL SENSOR

Thanks to an embedded heating element, the hybrid sensor for temperature and humidity is able to create its own reference in order to calibrate itself. Therefore, subsequent calibration will be not necessary. As a result will be unprecedented and long-lasting accuracy!

# TECHNICAL SPECIFICATIONS - TEMPMATE GS2 T

<b>BATTERY TYPE</b>	All the variation available in Lithium and Non-Lithium option
<b>TEMPERATURE RANGE</b>	-30°C to +70°C
<b>TEMPERATURE ACCURACY</b>	±0.3°C (-10°C ~ 45°C) , ±0.5°C (Other)
<b>TEMPERATURE RESOLUTION</b>	0.1°C
<b>AMBIENT LIGHT</b>	0 to 10000lx / Accuracy 0.01lx
<b>RESOLUTION AMBIENT LIGHT</b>	0.01 lx
<b>LOCAL DATA STORAGE CAPACITY</b>	24,200 values for Temperature and Light
<b>SHELF-LIFE</b>	Lithium Battery devices : 12 months shelf life Non-Lithium Battery devices: 6 months shelf life
<b>BATTERY</b>	Lithium Battery: Li-ion Polymer Battery 2400mAh Non-Lithium Battery: Ni-MH Battery 2000 mAh
<b>EXTERNAL SENSOR</b>	Available with the TE Model
<b>LOG INTERVAL</b>	User defined: 1 min. to 60 min. (10 min. as standard setting preconfigured)
<b>TRANSMISSION INTERVAL</b>	User defined: 10 min. to 1440 min. (60 min. as standard setting preconfigured)
<b>RECORDING DURATION</b>	Lithium Battery: 60 days (with standard log interval of 10 min. and transmission interval of 60 min.) Non Lithium Battery: 40 days (with standard log interval of 10 min. and transmission interval of 60 min.)
<b>STARTUP MODE</b>	By default start by button
<b>STOP MODE</b>	By default stop by button (optionally via the USB port or the cloud platform)
<b>START DELAY</b>	User defined: 0 min. to 1440 min. (No start delay as standard setting preconfigured)
<b>PROTECTION CLASS</b>	IP65
<b>DIMENSIONS</b>	103 x 64 x 23 mm for Lithium and 103 x 64 x 30 mm for Non-Lithium
<b>WEIGHT</b>	130 g for Lithium and 175 g for Non-Lithium
<b>CERTIFICATIONS</b>	CE, EN12830, EMC, RoHS, FCC
<b>VALIDATION CERTIFICATE</b>	Available as PDF in the Cloud
<b>REPORT GENERATION</b>	Readable in the Cloud and locally in the device through the USB 2.0 interface
<b>CONNECTIVITY</b>	LTE 4G cat 1 with 2G Fallback
<b>LOCATION</b>	LBS - GSM Localization
<b>ALARM CONFIGURATION</b>	Up to 6 Alarm for temperature + up to 3 Alarm for light, Alarm Delay Programmable
<b>ALARM TYPE</b>	Single / Cumulative
<b>CASE MATERIAL</b>	Polycarbonate

# TECHNICAL SPECIFICATIONS - TEMPMATE GS2 TH

<b>BATTERY TYPE</b>	All the variation available in Lithium and Non-Lithium option
<b>TEMPERATURE RANGE</b>	-30°C to +70°C
<b>TEMPERATURE ACCURACY</b>	±0.3°C (-10°C ~ 45°C) , ±0.5°C (Other)
<b>TEMPERATURE RESOLUTION</b>	0.1°C
<b>HUMIDITY RANGE</b>	0% to 100%rH
<b>HUMIDITY ACCURACY</b>	±3% (20% ~ 80%) , ±5% (Other)
<b>RESOLUTION HUMIDITY</b>	1%
<b>AMBIENT LIGHT</b>	0 to 10000lx / Accuracy 0.01lx
<b>RESOLUTION AMBIENT LIGHT</b>	0.01 lx
<b>LOCAL DATA STORAGE CAPACITY</b>	24,200 values for Temperature and Light
<b>SHELF-LIFE</b>	Lithium Battery devices : 12 months shelf life Non-Lithium Battery devices: 6 months shelf life
<b>BATTERY</b>	Lithium Battery: Li-ion Polymer Battery 2400mAh Non-Lithium Battery: Ni-MH Battery 2000 mAh
<b>EXTERNAL SENSOR</b>	Available with the TE Model
<b>LOG INTERVAL</b>	User defined: 1 min. to 60 min. (10 min. as standard setting preconfigured)
<b>TRANSMISSION INTERVAL</b>	User defined: 10 min. to 1440 min. (60 min. as standard setting preconfigured)
<b>RECORDING DURATION</b>	Lithium Battery: 60 days (with standard log interval of 10 min. and transmission interval of 60 min.) Non Lithium Battery: 40 days (with standard log interval of 10 min. and transmission interval of 60 min.)
<b>STARTUP MODE</b>	By default start by button
<b>STOP MODE</b>	By default stop by button (optionally via the USB port or the cloud platform)
<b>START DELAY</b>	User defined: 0 min. to 1440 min. (No start delay as standard setting preconfigured)
<b>PROTECTION CLASS</b>	IP65
<b>DIMENSIONS</b>	103 x 64 x 23 mm for Lithium and 103 x 64 x 30 mm for Non-Lithium
<b>WEIGHT</b>	130 g for Lithium and 175 g for Non-Lithium
<b>CERTIFICATIONS</b>	CE, EN12830, EMC, RoHS, FCC
<b>VALIDATION CERTIFICATE</b>	Available as PDF in the Cloud
<b>REPORT GENERATION</b>	Readable in the Cloud and locally in the device through the USB 2.0 interface
<b>CONNECTIVITY</b>	LTE 4G cat 1 with 2G Fallback
<b>LOCATION</b>	LBS - GSM Localization
<b>ALARM CONFIGURATION</b>	Up to 6 Alarm for temperature + up to 3 Alarm for light, Alarm Delay Programmable
<b>ALARM TYPE</b>	Single / Cumulative
<b>CASE MATERIAL</b>	Polycarbonate

# TECHNICAL SPECIFICATIONS - TEMPMATE GS2 TE

<b>BATTERY TYPE</b>	All the variation available in Lithium and Non-Lithium option
<b>TEMPERATURE RANGE</b>	-200°C to +100°C
<b>TEMPERATURE ACCURACY</b>	±0.5°C (-10°C ~ 45°C) , ±1°C (Other)
<b>TEMPERATURE RESOLUTION</b>	0.1°C
<b>AMBIENT LIGHT</b>	Available with the T and TH Model
<b>RESOLUTION AMBIENT LIGHT</b>	Available with the T and TH Model
<b>LOCAL DATA STORAGE CAPACITY</b>	24,200 values for Temperature and Light
<b>SHELF-LIFE</b>	Lithium Battery devices : 12 months shelf life Non-Lithium Battery devices: 6 months shelf life
<b>BATTERY</b>	Lithium Battery: Li-ion Polymer Battery 2400mAh Non-Lithium Battery: Ni-MH Battery 2000 mAh
<b>EXTERNAL SENSOR</b>	PT100 (cable length: 1m, length of probe is 6cm length, 4 mm in diameter, sensor tip: stainless steel)
<b>LOG INTERVAL</b>	User defined: 1 min. to 60 min. (10 min. as standard setting preconfigured)
<b>TRANSMISSION INTERVAL</b>	User defined: 10 min. to 1440 min. (60 min. as standard setting preconfigured)
<b>RECORDING DURATION</b>	Lithium Battery: 60 days (with standard log interval of 10 min. and transmission interval of 60 min.) Non Lithium Battery: 40 days (with standard log interval of 10 min. and transmission interval of 60 min.)
<b>STARTUP MODE</b>	By default start by button
<b>STOP MODE</b>	By default stop by button (optionally via the USB port or the cloud platform)
<b>START DELAY</b>	User defined: 0 min. to 1440 min. (No start delay as standard setting preconfigured)
<b>PROTECTION CLASS</b>	IP65
<b>DIMENSIONS</b>	103 x 64 x 23 mm for Lithium and 103 x 64 x 30 mm for Non-Lithium
<b>WEIGHT</b>	130 g for Lithium and 175 g for Non-Lithium
<b>CERTIFICATIONS</b>	CE, EN12830, EMC, RoHS, FCC
<b>VALIDATION CERTIFICATE</b>	Available as PDF in the Cloud
<b>REPORT GENERATION</b>	Readable in the Cloud and locally in the device through the USB 2.0 interface
<b>CONNECTIVITY</b>	LTE 4G cat 1 with 2G Fallback
<b>LOCATION</b>	LBS - GSM Localization
<b>ALARM CONFIGURATION</b>	Up to 6 Alarm for temperature + up to 3 Alarm for light, Alarm Delay Programmable
<b>ALARM TYPE</b>	Single / Cumulative
<b>CASE MATERIAL</b>	Polycarbonate

*Every effort has been taken to ensure the accuracy of this specification, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.*