Monitoring of temperature limits alarm notification in case of deviations

CM4200
Mobeye ThermoGuard

The Mobeye ThermoGuard helps prevent damage from cold or overheating. By setting a lower and/or upper limit, this compact device monitors the ambient temperature. The ThermoGuard is equipped with a highly reliable temperature sensor. As soon as the temperature is outside the limits an alarm message will follow. The device is fully battery powered, or uses external power. The built-in communication module can connect to the 4G LTE-M and the 2G network.

If the temperature or one of the inputs indicate an alarm status, the ThermoGuard alerts with a push notification, telephone call, SMS and/or e-mail. The contact persons can be set, with multiple options for the alarm message. The messages also state the current temperature.
The Mobeye ThermoGuard runs for more than a year on a set of batteries. A message is sent when the battery voltage is low. When using an external power source (12-24V DC or mains), it also sends “power failure” notifications; this is often the first indication that something is wrong and an action is required.

Mobeye ThermoGuard, reliable and simple

Next to the temperature sensor, two potential-free sensors may be connected, for example a failure contact or door magnet contact. The settings are easy to program in, such as the temperature limits, automatic switch-on and switch-off times, alarm delay, calibration value, repeat notifications, test messages and alarm texts.

CM4200
Mobeye ThermoGuard

HOW IT WORKS

The Mobeye CM4200 continuously measures the temperature values. The alarm dialer immediately sends a notification if it gets too cold or too hot. In this way you have full control.

1. Place the sensor at a location with a stable temperature, not too close to the cooling element or heat source.
2. Set the temperature limits and choose contacts for the notifications.
3. As soon as the measured temperature is outside the set limits, the ThermoGuard sends alarm messages to the contacts. When using the portal and app, an escalation plan including alarm confirmation can be set.

Mobeye SIM, Portal & App service

The Mobeye Portal offers a clear dashboard and essential functions, such as push notifications per app, online programming, setting up the notifications, insight into the status and history, network strength, events and position (Cell-Id). The 'keep-alive' monitor offers extra security by monitoring the receipt of test messages. You can activate the supplied Mobeye SIM card online.

CM4200 - Technical data

Contents	• CM4200, 1x digital temperature sensor, 2x CR123 batteries, SIM card
(Alarm) messages	• temperature alarm, input alarm, power failure, alarm recovery, battery low voltage, (missed) test report • to private contacts via app, call, text message and/or e-mail
Reporting	• temperature value, status, setting list, event history, network strength and position based on Cell ID
Setting options	• temperature limits (between -35 ... +70 °C), contact persons (unlimited number) for alarm and service messages, message texts, repeat cycles, input type, recovery messages, alarm delay times, test interval (keep-alive), etc.
Operation	• arming and disarming via button, time schedules and SMS
Temperature sensor	• 1 meter cable • accuracy: 0.5°C between -30 °C and +55 °C, 1 °C outside these limits
Inputs	• 1x digital tempearure input, 2x NO/NC input (potential-free), 1x 12-24V DC (+/- 2V)
Power supply	• 2x CR123 lithium batteries *or* 12-24V DC (regulated) + 2x CR123 lithium
Battery lifetime	• > 1 year at normal use (battery operated), > 3 years at normal use (powered externally)
Dimensions	• 94 x 94 x 28 mm
Connectivity	• Mobeye SIM/Portal the Mobeye SIM card and Portal/App services provide full functionality and optimum security. The 4G LTE-M network is very reliable and ensures a strong penetration against low energy consumption. 2G is available as a fallback • Own SIM card When using your own SIM card, the device operates on 2G; with an LTE-M SIM card and the correct APN settings, it also supports 4G. The device runs "stand-alone", without using the Mobeye Portal. The alarm notifications are sent via SMS and (if supported by the network) telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, extension cable (3m, 10m, 1m flat cable), external antenna

Mobeye is specialised in high-quality 2G/4G/LoRa alarm and telemetry technology. Visit mobeye.com for more information about our technology, applications and detailed product information.