Monitoring of temperature limits, insight into the complete temperature trend

CML4255
Mobeye ThermoGuard TwinLog

The Mobeye ThermoGuard TwinLog is an extremely accurate and user-friendly temperature monitor. As soon as the temperature deviates from the set limit values, an alarm message follows. In addition, it logs the temperature values at a self-selected interval and displays them in the online portal. The CML4255 has a reliable temperature sensor, with the option for a second one. 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 CML4255 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 log functionality is available when using the Mobeye Portal. The logged temperature values are sent to the portal periodically and after an alarm, for display in table and graph form.
The Mobeye ThermoGuard runs for more than a year on a set of batteries. When using an external power source (12-24V DC or mains), it also sends "power failure" notifications.

Alerts, logging and insight
The instant alarm, periodic logging and remote insight make the CML4255 suitable for professional applications such as food chains, drug monitoring and conditioned storage.

CML4255

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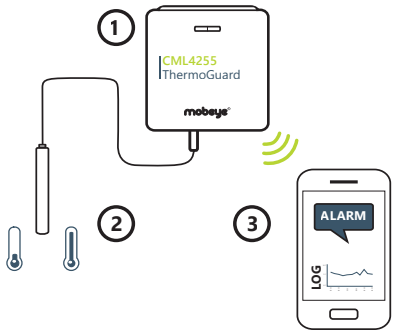
HOW IT WORKS



The Mobeye CML4255 continuously measures the temperature values and logs these periodically. In this way you are fully informed about alarm situations and the complete temperature trend.

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 log frequency and choose contacts for the notifications.
3. If it gets too cold or too hot, the ThermoGuard sends alarm messages to the contacts. The logged values can be viewed online in table and graph form.

Mobeye SIM, Portal & App service

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

CML4255 - Technical data

Contents	• CML4255, 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; local piezo siren
Reporting	• temperature value, status, setting list, event history, network strength and position based on Cell ID
Setting options	• temperature limits per sensor (between -35 °C and +120 °C), log interval (in min.), interval for data synchronisation (in hours), 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	• 2x digital tempearure input, 2x NO/NC input (potential-free), 1x 12-24V DC (+/- 2V)
Output	• open collector (at external voltage), max. 200mA. Switches in the event of an alarm or after incoming SMS/call
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 Mobeye Portal and log functions. The alarm notifications are sent via SMS and (if supported by the network) telephone call to (max.) 5 contacts. Programming is done via SMS commands
Accessories (not included)	• 2nd temperature sensor (1m or 10m cable), extension cable (3m, 10m or flat 1m cable), mains adapter, external antenna