



# Temperature monitoring, alarming and insight into the complete temperature trend



## CML4275

### Mobeye ThermoGuard TwinLog

The Mobeye ThermoGuard TwinLog is an extremely accurate temperature monitor for outdoor and industrial environments. 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 CML4275 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 CML4275 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 Internet Portal. The logged temperature values are sent to the portal periodically and after an alarm, for display as table and graph.

The Mobeye ThermoGuard TwinLog 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.



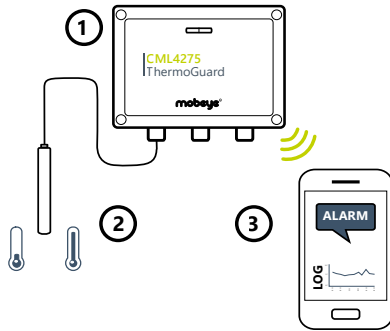
#### Alerts, logging and insight

The instant alarm, periodic logging, remote insight and industrial IP67 enclosure make the CML4275 suitable for professional applications such as agriculture (heat alarm, heat hour counter, night frost) and conditioned storage.

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## HOW IT WORKS



The Mobeye CML4275 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, in the shadow, or 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 and trend can be viewed online as graph and table.

## Mobeye SIM, Portal & App service

The Mobeye Internet Portal offers a clear dashboard and essential functions, such as graphs and log values, history, "heat hours", 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.

## CML4275 - Technical data

Contents	<ul style="list-style-type: none"> <li>CML4275, 1x digital temperature sensor, 2x CR123 batteries, SIM card</li> </ul>
(Alarm) messages	<ul style="list-style-type: none"> <li>temperature alarm, input alarm, power failure, alarm recovery, battery low voltage, (missed) test report</li> <li>to private contacts via app, call, text message and/or e-mail; local piezo siren</li> </ul>
Reporting	<ul style="list-style-type: none"> <li>temperature value, status, setting list, event history, network strength and position based on Cell ID</li> </ul>
Setting options	<ul style="list-style-type: none"> <li>temperature limits per sensor (between -35 °C and +70 °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.</li> <li>option for "smart data transfer" for agrarians (night frost ) and counting "heat hours"</li> </ul>
Operation	<ul style="list-style-type: none"> <li>arming and disarming via button, time schedules and SMS</li> </ul>
Temperature sensor	<ul style="list-style-type: none"> <li>1 meter cable</li> <li>accuracy: 0.5°C between -30 °C and +55 °C, 1 °C outside these limits</li> </ul>
Inputs	<ul style="list-style-type: none"> <li>2x digital temperature input, 2x NO/NC input (potential-free), 1x 12-24V DC (+/- 2V)</li> </ul>
Output	<ul style="list-style-type: none"> <li>open collector (at external voltage), max. 200mA. Switches in the event of an alarm or after incoming SMS/call</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>2x CR123 lithium batteries or 12-24V DC (regulated) + 2x CR123 lithium</li> </ul>
Battery lifetime	<ul style="list-style-type: none"> <li>&gt; 1 year at normal use (battery operated), &gt; 3 years at normal use (powered externally)</li> </ul>
Enclosure, dimensions	<ul style="list-style-type: none"> <li>IP67, 130 x 180 x 35 mm</li> </ul>
Connectivity	<ul style="list-style-type: none"> <li>4G LTE-M (worldwide) + 2G EGSM Quad band the Mobeye SIM card and Internet Portal 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</li> <li>2G EGSM Quad band (850/900/1800/1900 MHz) when using your own SIM card, the device works (only) on 2G. The operation is "stand-alone", without using the Mobeye Portal and without the log function. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands</li> </ul>
Accessories (not included)	<ul style="list-style-type: none"> <li>2nd temperature sensor (1m or 10m cable), extension cable (3m, 10m or flat 1m cable), 4 years battery pack, mains adapter, external antenna</li> </ul>