



# Monitoring of analog values, alarm and insight into the voltage trend



## CML4055

### Mobeye CM-Guard TwinLog

The Mobeye CM-Guard TwinLog is a compact measuring instrument for monitoring analog values. With two inputs for measuring values between 0V and 48V, it is ideally suited as a battery monitor. As soon as the voltage of a connected battery or sensor exceeds the set limits, an alarm message follows. In addition, it logs the measured values for display in the online portal. 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.

In an alarm situation the CML4055 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 values are sent to the portal periodically and after an alarm, for display in a table and as graph.

The Mobeye CML4055 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.



#### To prevent damage

Deep discharge of a battery often causes a battery to malfunction. By setting an alarm limit, the contacts receive a timely notification to take action. The CML4055 has an (open collector) output that can be used to switch a battery or device.

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### HOW IT WORKS



The Mobeye CML4055 monitors the voltage value of a connected battery or analog sensor. It measures the values continuously in order to instantly alarm in the event of deviations, and logs them periodically.

- 1 Connect a battery or analog sensor to one of the inputs.
- 2 Set the min./max. analog limits and log frequency and choose contacts for the notifications.
- 3 If the voltage gets too low or too high, the CML4055 sends alarm messages to the contacts. The voltage trend can be viewed online in a table and graph.

### Mobeye SIM, Portal & App service

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

### CML4055 - Technical data

<b>Contents</b>	<ul style="list-style-type: none"> <li>CML4055, 2x CR123 batteries, SIM card</li> </ul>
<b>(Alarm) messages</b>	<ul style="list-style-type: none"> <li>voltage alarm, input alarm (NO/NC), 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>
<b>Reporting</b>	<ul style="list-style-type: none"> <li>voltage values, status, setting list, event history, network strength and position based on Cell ID</li> </ul>
<b>Setting options</b>	<ul style="list-style-type: none"> <li>analog limits per sensor, 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> </ul>
<b>Operation</b>	<ul style="list-style-type: none"> <li>arming and disarming via button, time schedules and SMS</li> </ul>
<b>Inputs</b>	<ul style="list-style-type: none"> <li>2x input, settable as analog or NO/NC (potential-free) voltage values 0-48V with peak voltage up to 64V</li> <li>1x 12-24V DC (+/- 2V)</li> </ul>
<b>Output</b>	<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>
<b>Power supply</b>	<ul style="list-style-type: none"> <li>2x CR123 lithium batteries or 12-24V DC (regulated) + 2x CR123 lithium</li> </ul>
<b>Battery lifetime</b>	<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>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>94 x 94 x 28 mm</li> </ul>
<b>Connectivity</b>	<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>
<b>Accessories (not included)</b>	<ul style="list-style-type: none"> <li>mains adapter, external antenna</li> </ul>

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

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