Alarm monitoring for input signals
Remote control of relay outputs

CM4042
Mobeye CM-Guard-42

The Mobeye CM4042 is an input and output module with four potential-free inputs, two relay outputs and an integrated 2G/4G communication module. The CM4042 can be used to monitor installations and and to remotely start and stop equipment.

Sensors and contacts are connected to the alarm inputs. In the event of a status change, designated contacts receive a notification via push-app, call, SMS, and/or email.
External devices, such as a pump or motor, can be connected to the relay outputs and switched on and off by sending an SMS command, or automatically in the event of an alarm. The current status is visible in the online portal.

The CM4042 has a built-in communication module. Connected to external power (12-24VDC or via a mains adapter) it is always connected to the network, ready to receive SMS commands. If the external power supply fails, the batteries automatically take over operation and a power failure notification follows.
With just a single set of batteries, the CM4042 can operate for a year, while still sending alarm notifications and controlling the relays when an input alarm occurs.

Reliability and insight across the entire chain

The Mobeye SIM/Portal service provides access to the Mobeye Portal, the Messages push notifications App and additional monitoring functions. It provides a clear dashboard, online programming, setting up notifications, status view, history, network strength and position (Cell-Id). The 'keep-alive' monitor monitors the entry of test messages.
When using an own SIM card, the device operates with certain limitations.

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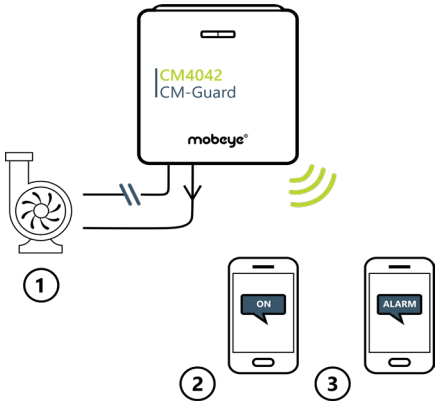
HOW IT WORKS



The Mobeye CM4042 monitors various fault contacts or sensors of your installation and allows remote switching of a device, pump or motor switch.

1. Connect your device's start/stop mechanism to the relay outputs and attach potential-free contacts to the inputs. These can be sensors or fault contacts. Connect an external power source.
2. Activate the connected device by sending an SMS command. By setting a pulse time for the output relay, it switches off automatically, or send separate SMS commands for 'on' and 'off'.
3. In the event of an alarm situation on any input, the CM4042 sends messages to the contacts, possibly also after switching the output.

CM4042 - Technical data

Contents	• CM4042, 2x CR123 batteries, SIM card
(Alarm) messages	• input alarm, power failure, alarm recovery, battery low voltage, (missed) test report • to private contacts via app, call, text message and/or e-mail, or to a control room (ARC)
Reporting	• status, setting list, event history, network strength and position based on Cell ID
Setting options	• contacts (unlimited number) for alarm and service messages, message texts, repeat cycles, input type normally open or normally closed, recovery messages, alarm delay times, pulse time output, authorised/non-authorised switching test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Inputs	• 4x NO/NC input (potential-free), 1x 12-24V DC (+/- 2V)
Outputs	• 2x relay contact (bistable switching contact, max 30V/1A), switchable via SMS command or after an alarm
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)
Versions	• Indoor version: CM4042: 94 x 94 x 28 mm, IP44 • Outdoor version : CM4042X: 130 x 85 x 35 mm, IP66
Connectivity	• Mobeye SIM/Portal the Mobeye SIM card and Portal/App services provide full functionality and optimum security. • Own SIM card When using your own SIM card, the device operates "stand-alone", without the extended SIM/Portal 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. Note: some local SIM cards don't automatically set the correct APN for 4G.
Communication module	• 4G (CAT1) + 2G, region: EMEA, APAC, LATAM
Accessories (not included)	• mains adapter, external antenna

Mobeye specialises in high-quality 2G/4G alarm and telemetry technology. Mobeye develops products and services for reliable alarms, logging, control and alarm transmission.
Visit mobeye.com to learn more about our technology, applications and comprehensive product information.

Mobeye I/O product versions

Product	Product	Input		Output	
IP44 (indoor)	IP66 (outdoor)	No.	Type	No.	Type
CM4000	CM4000X	2	NO/NC	-	
CM4040	CM4040X	4	NO/NC	-	
CM4001	CM4001X	2	NO/NC	1	open collector
CM4042	CM4042X	4	NO/NC	2	relais (bistable)
		Accessories: mains adapter, externe antenna			