MOBEYE PRODUCTS

2023

mobeye®

security. anywhere. anytime.

Introduction

Mobeye is a Dutch manufacturer of 2G/4G alarm and security products. Mobeye is specialised in innovative GSM alarm, LoRa and telemetry technology with a focus on an extremely low power consumption. The products have functions in the field of measuring, reporting, controlling and logging.

With an in-house development department, Mobeye continuously works on innovations, based on social developments and market needs.

Mobeye products focus on safety and comfort by remote monitoring of properties, valuables and appliances. The products are used worldwide in various sectors, including by police, industry, professional users and consumers.

In this brochure you will find the list of Mobeye alarm and monitoring products, followed by the information sheets.

The website provides in-depth information, applications and kit information.

Our team is happy to help you with any question about Mobeye products and

Product groups	
	• alarm diallers
	• intruder
	• temperature
	• power failure) alarm
	• water
	• analogue
	• fire and panic
	• access control

MOBEYE PRODUCTS

	Article	Description
Intruder		
	iCM41	Mobeye MiniPir
	CMVXI-R	Mobeye Outdoor alarm
Alarm diallers I/O		
	CM4000	Mobeye CM-Guard
	CM4000-O	Mobeye CM-Guard, (open collector uitgang)
Temperature		
	CM4200	Mobeye ThermoGuard
	CM4200X	Mobeye ThermoGuard Outdoor
	CML4255	Mobeye ThermoGuard-TwinLog
	CML4275	Mobeye ThermoGuard-TwinLog
Power (failure)		
	CM4100	Mobeye PowerGuard (EU)
	CM4100-UK	Mobeye PowerGuard (UK)
Multi sensor		
	CM4600	Mobeye CombiGuard / ShipGuard
Water		
	CM4300	Mobeye WaterGuard
	CM4300FS	Mobeye WaterGuard-FS
Analogue		
	CML4015-LP	Mobeye SISTM (battery-operated)
	CML4015-HP	Mobeye SISTM (externally powered)
	CML4055	Mobeye CM-Guard TwinLog
Fire		
	CM4400	Mobeye GSM Smoke Detector
	CM4400H	Mobeye GSM Heat Detector
	CM4400H-RF	Mobeye GSM Heat Detector incl. RF Ei650M
	CM4410	Mobeye GSM Fire alarm communicator
	Ei428RF+CM4100	Fire communicator kit incl. Ei Electronics relays module
Panic		
	CM4500	Mobeye Panic Button
Access control		
	MCK100	Mobeye Call-Key

MOBEYE ACCESSORIES

Accessories

Article	Description
10027	Adapter, 12VDC (500mA), EU
10131	Adapter , 12VDC (500mA), UK
10174	Adapter , 12VDC (500mA), USA
CR123	CR123 battery, 3.0V Lithium
AC-BP3	Battery pack (±2 years), lithium (for CMVXI-R)
AC-BP4	Battery pack (for CML4275, SISTM kits about 1 year)
AC-BP5	Battery pack (±5 years), lithium in (for CML4015-LP)
AC-MC-S1	Magnet contact – surface
MPIR-LP	PIR movement sensor, low power, wired, incl. 1* CR123
AC-CMHX4	CM4 outdoor enclosure IP66
AC-WS-LS1	Water leakage sensor for CM4300/CM4600
AC-WS-FS1	Water float sensor for NO/NC inputs
AC-TS-E1	Temperature sensor, 1 meter cable
AC-TS-E2	Temperature sensor, 10 meter cable l
AC-EC1	Extension cable 3m round for leakage/temperature sensor
AC-EC2	Extension cable 1m flat for leakage/temperature sensor
AC-EC3	Extension cable 10m round for leakage/temperature sensor
AC-TAG1	Tag for CMVXI-R
AC-AN-MBKS	Antenna kit LTE-M/GSM, stick, 13cm
AC-AN-MBK30	Antenna kit LTE-M/GSM, disc, 30cm cable
AC-AN-MBK250	Antenna kit LTE-M/GSM, disc, 250cm cable
AC-AN-MBK10m	Antenna kit LTE-M/GSM, disc, 10m cable
Ei650-RF	Ei Electronics smoke detector 10 yrs, incl. RF
Ei603TYC-RF	Ei Electronics heat detector 10 yrs, incl. RF
Ei428RF	Ei Electronics relays basis 230V/10 yrs backup incl. RF

mobeye®

compact and reliable
battery-operated intruder alarm

iCM41
Mobeye MiniPir intruder alarm

The Mobeye MiniPir is a compact all-in-one burglar alarm system for monitoring indoor areas. The built-in communication module reports intrusion to contacts by telephone. The MiniPir is fully battery powered. It can be put down or hung.

As soon as the passive infrared sensor detects movement, the MiniPir alerts an unlimited number of contacts with a push message, telephone call, SMS and/or e-mail. The push message arrives in the Mobeye Messages app. This can go as a group message to all contacts at once, or in a specified order; an acknowledgment then prevents the message from being sent to the others. If no one confirms, the device calls the contacts.

Switch on and off
You can switch the MiniPir on and off with the included tags. In addition, time schedules for automatic switching can be set via the online portal. When the MiniPir is connected to external power, SMS operation is also possible.

Set-up in the Mobeye Portal
The MiniPir works with the Mobeye SIM card. Activating and setting up the device is done in the user-friendly online portal. The contacts and method of alarm reporting can be set here. The Mobeye SIM card can be used internationally using the 4G LTE-M and 2G network.

security. anywhere. anytime.   mobeye.com

HOW IT WORKS

iCM41i
MiniPir
mobeye®

ALARM

The Mobeye MiniPir reacts to suspicious movements and immediately sends a notification. An intruder cannot pass by unnoticed.

1 Lay the box down, or hang it up in a clean interior space. Have the sensor look into the room; avoid glare or direct sunlight on the lens.

2 Turn on with the associated tag, or set schedules for automatic (dis) arming.

3 If a "moving heat source" is detected, the MiniPir sends alarm messages to the contact persons.

Mobeye SIM, Portal & App service

The Mobeye Internet 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 and position (Cell-Id). The 'keep-alive' monitor monitors the receipt of test messages. You can activate the supplied Mobeye SIM card online.

MiniPir - Technical data

Contents	• MiniPir, 2x tag, 2x CR123 batteries, SIM card
(Alarm) messages	• intruder alarm, input alarm, power failure, 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, settings, event history, network strength and position based on Cell ID
Setting options	• contacts for alarm and service messages, message texts, sensitivity, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via tags (i-button), time schedules and - if powered externally - SMS
Additional inputs	• 2x NO/NC input (potential-free)
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)
Detection range	• 5 meter, 90° angle
Dimensions	• 94 x 94 x 28 mm
Connectivity	• 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
Accessories (not included)	• additional tags, mains adapter • external antenna (cable length 30cm, 250cm or 10m); this option makes the MiniPir suitable for use as a "container alarm" and for other places with a weak network strength

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.
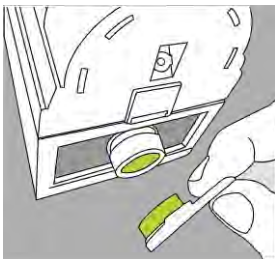
Mobeye
4G Outdoor Alarm

Mobeye CMVXI-R

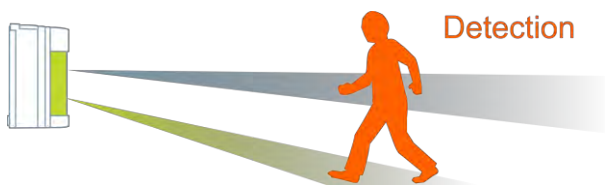## Simple, reliable and effective site security

The Mobeye Outdoor Alarm combines the reliable Optex (PIR) detector and the newest Mobeye low power communication technology. The Mobeye Outdoor Alarm CMVXI-R is ideal for temporary protection and places where no electricity or telephone lines are available. The system can be attached to a wall or poll.
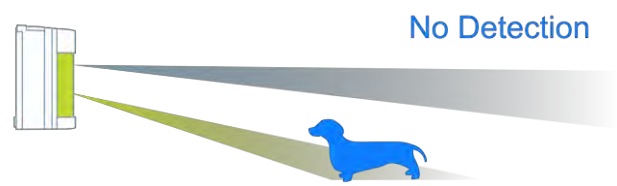
- silent alarm
- switch on and off with (supplied) tags
- arming and disarming automatically using in-built timer functions
- battery life time: more than two years
- low battery warning

Detection and signalling

Detection and signalling is simple and elegant with the Mobeye Outdoor Alarm. The detector has two sensors. They work independently. Only when both sensors detect movement at the same time, the pre-programmed numbers receive an app message, a call, an SMS text message and/or an e-mail.

Detection

No Detection

Alarm when both sensors detect movement.

No alarm when just one sensor detects movement.

Mobeye **OUTDOOR ALARM**

The alarms
- motion alarm via built-in motion detectors

Response after alarm
- in combination with the Mobeye SIM/Portal: push message, call, SMS and/or e-mail, possibly emergency room
- in combination with own SIM card: call, SMS

Programming with SMS
- enroll extra tags
- own recognition and alarm texts
- adjustable test message frequency

Switching on and off
- via tag
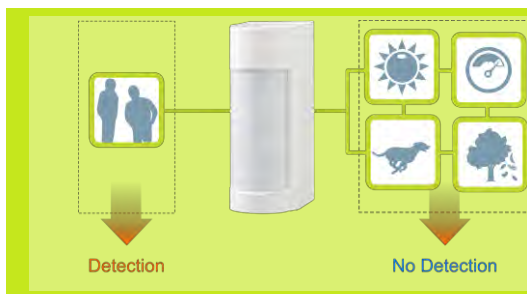- switches on and off automatically (2 week schedules)

Battery operated
- fully autonomous operation while battery powered
- battery life time > 2 years

Built-in reliability checks
- test messages ('keep alive') with adjustable interval
- in combination with Mobeye SIM/Portal:
  - multi-provider SIM card, works on 4G LTE-M and 2G
  - communication via data with SMS as backup
  - display of network strength
  - keep alive monitoring, message when no contact with device
  - message with low battery

Choice: Mobeye SIM card and Mobeye Internet Portal
Mobeye advises to choose the Mobeye SIM/portal service. This provides a reliable SIM card, online management of contacts and alarm messages via push message, call, SMS, e-mail and/or emergency room. The alternative is your own 2G SIM card.

Detection — No Detection

Digital Double Layer Detection

The two internal PIR sensors independently analyse the detection so that false alarms are filtered out. The Super Multi-Dimensional Analyse (SMDA signal recognition) improves immunity against various noise factors such as climate changes and vegetation sways.
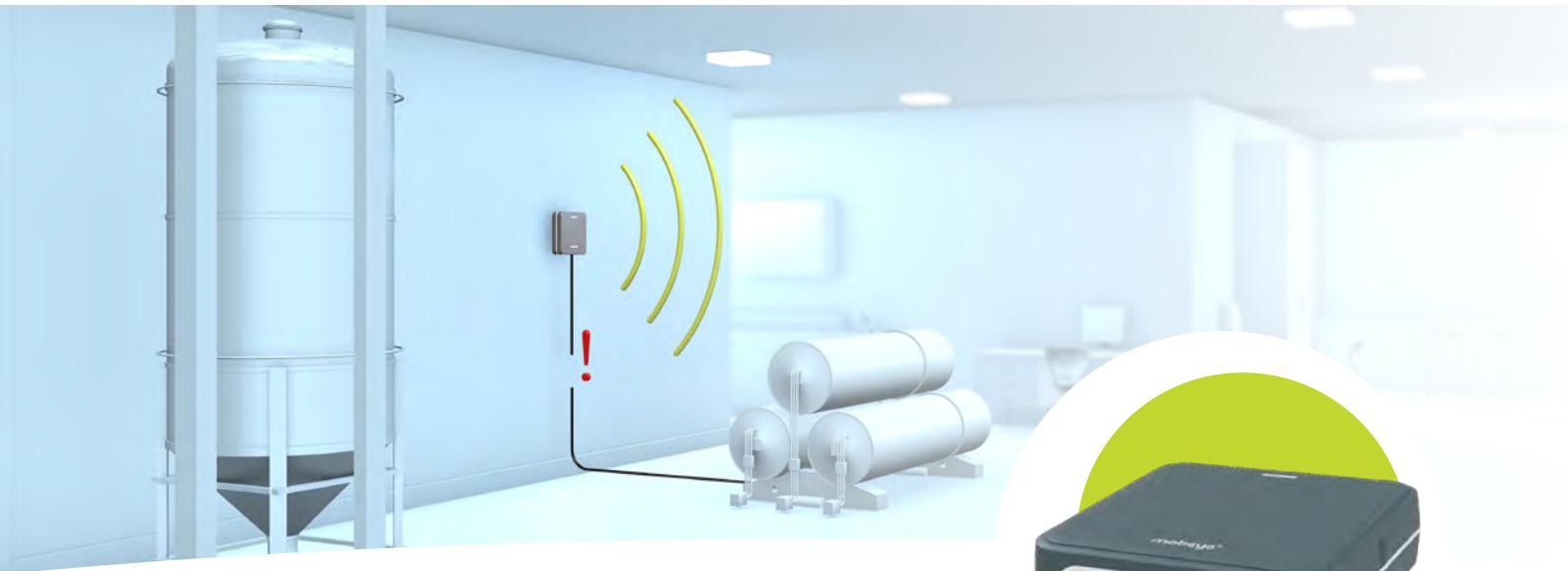
Technical features

Detector	• Optex VXI-R; adjustable angle
	• 12 meters detection, 90° detection pattern (180° rotatable)
	• Distance adjustment: 2,5 – 12 m (5 levels of detection), 8 horizontal area positions
Installation	• At 0,8 ⋯ 1,2 m height, mounting materials included
Dimensions & features	• 71 x 105 x 186 mm (w*l*h)
	• IP55
	• Ambient temperature -10 ⋯ 55 ℃
Communication module	• 4G LTE-M + 2G World Wide module
Product content	• Optex VXI-R, integrated communication module, tag reader
	• 2x CR123 batteries + 4x CR123 battery pack
	• 2x tag

About Mobeye

Mobeye is a Dutch manufacturer, specialised in high quality 2G/4G alarm and security products. Please visit Mobeye.com for more information about our technology, applications and products.

mobeye®

mobeye®

Fully in control with the Mobeye alarm dialer

CM4000
Mobeye CM-Guard

The Mobeye CM-Guard is the control unit and alarm dialer for monitoring any technical installation. Universal, reliable and compact. Sensors and contacts are easily connected to the inputs. 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 one of the inputs indicates an alarm status, the CM-Guard 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. Reporting to a control room (ARC) is also possible.

The Mobeye CM-Guard runs for more than a year on a set of batteries. Once the battery voltage is low, a message is sent. 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 on the spot.

The set-up is ready in a few simple steps. The compact box may be used as a free-standing unit or the mounting holes may be used to hang it.

Mobeye CM-Guard, universal alarm dialer

Any potential-free sensor may be connected. The CM-Guard has various setting options, such as automatic switch-on and switch-off times, alarm texts per input, alarm delay, alarm restore messages, repeat notifications and test messages. The batteries are included.

security. anywhere. anytime.

mobeye.com

CM4000
Mobeye CM-Guard

The Mobeye CM4000 monitors your installation remotely. The alarm device immediately sends a notification when the status changes. In this way you have full control.

1. Attach a potential-free contact to one of the inputs of the CM-Guard. This may be a fault signal from an installation, or a sensor with make/break contact.

2. The CM-Guard detects any status change on the inputs. When connected to external power, it also signals a power failure.

3. In an alarm situation, the CM-Guard sends alarm messages to the contact persons. When using the portal and app, an escalation plan including alarm confirmation can be set.

Mobeye SIM, Portal & App service

The Mobeye Internet 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.

CM4000 - Technical data

Contents	• CM4000, 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, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Inputs	• 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	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, 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.

security. anywhere. anytime.

mobeye.com

mobeye®

Always informed about power failure and malfunctions

CM4100
Mobeye PowerGuard

The Mobeye PowerGuard is the power failure monitor and fault detector with versatile applications. Understandable, reliable and compact. The power source is monitored by plugging the power adapter into a power outlet. In addition, sensors and contacts may be connected to the alarm inputs. The built-in communication module can connect to the 4G LTE-M and the 2G network.

In the event of a power failure or an input alarm, the PowerGuard 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. Reporting to a control room (ARC) is possible.

The Mobeye PowerGuard monitors the mains power or a 12-24V DC power source. In the event of an outage, it uses the batteries to send the notifications and continuously monitor the inputs. After the power is restored, the contacts receive a recovery notification.
The set-up is ready in a few simple steps. The PowerGuard box may be placed as free-standing unit or the mounting holes may be used to hang it on a wall.
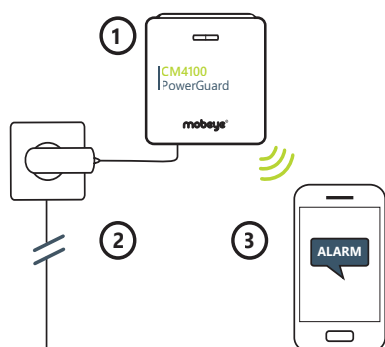
Mobeye PowerGuard, a powerful monitoring device
The PowerGuard has various setting options, such as automatic switch-on and switch-off times, alarm texts per input, alarm delay, recovery messages, repeat notifications, test messages. The batteries and (country specific) mains adapter are included.

security. anywhere. anytime.   mobeye.com

CM4100
Mobeye PowerGuard

HOW IT WORKS

The Mobeye CM4100 monitors the avaliablity of the external power and the status of connected fault contacts. The alarm dialer immediately sends a notification when the status changes. This means you are always well informed.

1 Plug the mains adapter into a wall socket and, if desired, attach a potential-free sensor to one of the inputs.

2 The PowerGuard recognises power failure and an input alarm.

3 In an alarm situation, the PowerGuard 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 Internet 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.

CM4100 - Technical data

Contents	• CM4100, mains adapater (country specific version), 2x CR123 batteries, SIM card
(Alarm) messages	• power failure, input alarm, 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, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Inputs	• 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	• > 3 years at normal use (powered externally), > 1 year at normal use (battery operated)
Dimensions	• 94 x 94 x 28 mm
Connectivity	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• 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.

security. anywhere. anytime.

mobeye.com

mobeye®

Always informed about power failure and malfunctions

CM4100-G
Mobeye PowerGuard

The Mobeye PowerGuard is the power failure monitor and fault detector with versatile applications. Understandable, reliable and compact. The power source is monitored by plugging the power adapter into a power outlet. In addition, sensors and contacts may be connected to the alarm inputs. The built-in communication module can connect to the 4G LTE-M and the 2G network.

In the event of a power failure or an input alarm, the PowerGuard 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. Reporting to a control room (ARC) is possible.

The Mobeye PowerGuard-G monitors the mains power or a 12-24V DC power source A "G-type" adapter, as used in the UK and many otyher countries, is included. In the event of an outage, it uses the batteries to send the notifications and continuously monitor the inputs. After the power is restored, the contacts receive a recovery notification. The set-up is ready in a few simple steps. The PowerGuard box may be placed as free-standing unit or the mounting holes may be used to hang it on a wall.
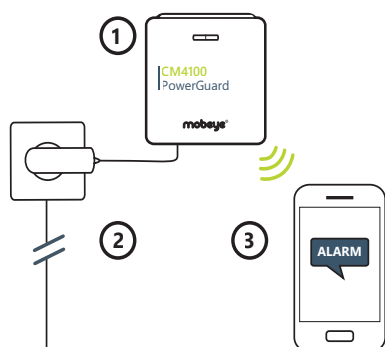
Mobeye PowerGuard, a powerful monitoring device

The PowerGuard has various setting options, such as automatic switch-on and switch-off times, alarm texts per input, alarm delay, recovery messages, repeat notifications, test messages. The batteries and (country specific) mains adapter are included.

security. anywhere. anytime.

mobeye.com

CM4100-G
Mobeye PowerGuard

The Mobeye CM4100-G monitors the avaliablity of the external power and the status of connected fault contacts. The alarm dialer immediately sends a notification when the status changes. This means you are always well informed.

1 Plug the mains adapter into a wall socket and, if desired, attach a potential-free sensor to one of the inputs.

2 The PowerGuard recognises power failure and an input alarm.

3 In an alarm situation, the PowerGuard 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 Internet 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.

CM4100-G - Technical data

Contents	• CM4100-G, mains adapater (type G), 2x CR123 batteries, SIM card
(Alarm) messages	• power failure, input alarm, 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, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Inputs	• 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	• > 3 years at normal use (powered externally), > 1 year at normal use (battery operated)
Dimensions	• 94 x 94 x 28 mm
Connectivity	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• 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.

mobeye®

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.
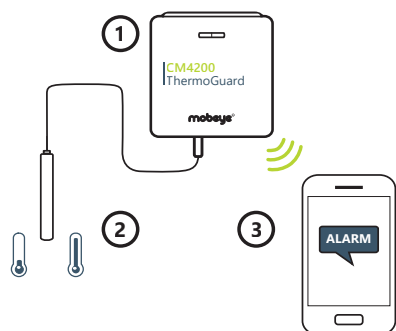
Mobeye ThermoGuard, reliable and simple

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.

security. anywhere. anytime.   mobeye.com

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 Internet 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	• 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 • 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. The alarm notifications are sent via SMS and 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.

security. anywhere. anytime.

mobeye.com

mobeye®

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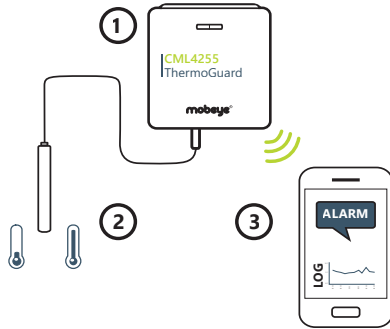
Alerts, logging and insight
The instant alarm, periodic logging and remote insight make the CML4255 suitable for professional applications such as food chains, drug monitoring and conditioned storage.

CML4255
Mobeye ThermoGuard TwinLog

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 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.

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 +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.
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 tempeaure 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	• 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 • 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 wihtout the log function. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• 2nd temperature sensor (1m or 10m cable), extension cable (3m, 10m or flat 1m cable), mains adapter, external antenna

mobeye®

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.
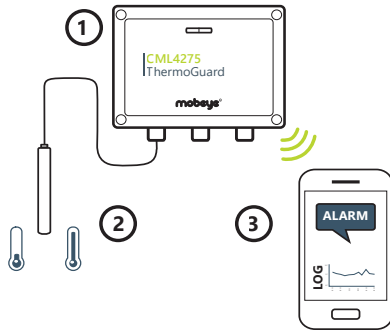
Alerts, logging and insight

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.

security. anywhere. anytime.   mobeye.com

CML4275
Mobeye ThermoGuard TwinLog

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	• CML4275, 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 +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. • option for "smart data transfer" for agrarians (night frost) and counting "heat hours"
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)
Enclosure, dimensions	• IP66, 130 x 180 x 35 mm
Connectivity	• 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 • 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 wihtout the log function. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• 2nd temperature sensor (1m or 10m cable), extension cable (3m, 10m or flat 1m cable), 4 years battery pack, mains adapter, external antenna

security. anywhere. anytime.

mobeye®

Water detector with alarm notification always aware of leakage

CM4300
Mobeye WaterGuard

The Mobeye WaterGuard is the leak detector that helps to prevent water damage. The device consists of a reliable leakage sensor and a compact communication box. By placing the sensor close to a water source or at a place where water can accumulate, leakage can no longer occur unnoticed. If the sensor detects a water-based liquid, an alarm notification will be sent. The device is fully battery powered, or uses external power. The communication module can connect to the 4G LTE-M and the 2G network.

As soon as the water sensor or one of the additional inputs gets into the alarm status, a push notification, telephone call, SMS and/or e-mail will follow. The contact persons can be set, with multiple options for the alarm message. The Mobeye WaterGuard runs for more than a year on a set of batteries. When the battery voltage is low, a message is sent. 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.
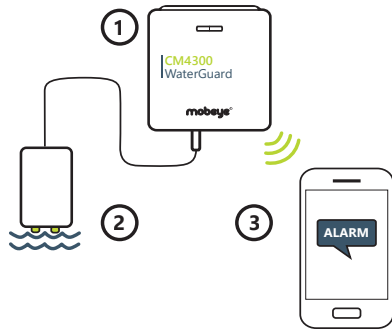
Mobeye WaterGuard, reliable and simple

Next to the supplied leak sensor, two potential-free sensors can be connected, for example a water float sensor or failure contact. The settings are easy to program in, such as the alarm delay times, inactive times after an alarm, NO/NC input types, repeat notifications, test messages and alarm texts.
For monitoring a water level, the CM4300FS with float sensor is more suitable.

CM4300
Mobeye WaterGuard

The Mobeye CM4300 monitors whether a room is dry. In the event of a water leak, it immediately sends a notification. This way you will detect a water leak in time and prevent water damage.

1. Place the box in a dry place and set the contacts for the notifications.

2. Fix the leak sensor where the water first will penetrate or accumulate, with the pins down.

3. As soon as the pins feel water, the WaterGuard sends alarm messages to the contact persons. When using the portal and app, an escalation plan including alarm confirmation can be set.

Mobeye SIM, Portal & App service

The Mobeye Internet 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.

CM4300 - Technical data

Contents	• CM4300, leakage sensor, 2x CR123 batteries, SIM card
(Alarm) messages	• water 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	• 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, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Water sensor	• 52 x 32 x 14 mm, digital, 1 meter cable
Inputs	• 1x input for leakage sensor, 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	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, extension cable (3m, 10m), 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.

security. anywhere. anytime.

mobeye.com

mobeye®

Water detector with float sensor for level measurement with alarm transmission

CM4300FS
Mobeye WaterGuard

The Mobeye WaterGuard-FS informs contacts when the water level rises or falls. The device consists of a water float sensor and a compact communication box. By fixing the sensor in a horizontal position at the critical water level, it will be closed (when the water rises) or opened (when the water level falls). This is followed by an alarm message. 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 water sensor of one of the inputs indicates an alarm status, a push notification, telephone call, SMS and/or e-mail will follow. The contact persons can be set, with multiple options for the alarm message.
The Mobeye WaterGuard-FS 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.
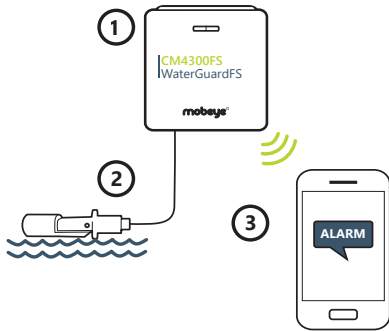
Mobeye WaterGuard-FS, reliable and effective
Next to the included water level sensor a second potential-free sensor may be connected, for example a second float sensor or failure contact. The settings are easy to program in, such as an alarm delay, inactive times after an alarm, repeat notifications, test messages and alarm texts. For detecting water leaks the CM4300 with leakage sensor is more suitable.

CM4300FS
Mobeye WaterGuard

HOW IT WORKS

The Mobeye CM4300FS monitors whether the water level is at or below a pre-determined level. If the water level is too high or too low, it sends a message. This way you are informed well to take prompt action.

1 Place the box in a dry place and set the contacts for the notifications.

2 Decide at what water height you want to receive an alarm. Install the water float horizontally, if necessary with the aid of an attachment.

3 As soon as the water closes (or opens) the float sensor, the WaterGuard-FS sends alarm messages to the contact persons. When using the portal and app, an escalation plan including alarm confirmation can be set.

Mobeye SIM, Portal & App service

The Mobeye Internet 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.

CM4300FS - Technical data

Contents	• CM4300FS, water float sensor, 2x CR123 batteries, SIM card
(Alarm) messages	• water 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, 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, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Water sensor	• suitable for water-based liquids, 1.5 meter cable (extendable with 2-core wire)
Inputs	• 1x input for water float sensor, 1x 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	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, external antenna, float sensor for other substances (e.g. diesel)

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.

security. anywhere. anytime.

mobeye.com

mobeye®

Mobeye fire detectors
with alarm reporting to contacts

CM4400
Mobeye 2G/4G Smoke Detector Kit

The Mobeye 2G/4G fire detector kits consist of reliable smoke or heat detectors with alarm notification to contact persons. The combination of the Ei Electronics fire detector and the Mobeye communication module make fire alarms extremely effective. In the event of a fire detection, in addition to the siren on the spot, a warning will be sent via push message, telephone call, SMS and/or e-mail. No cables and local telephone line are required. The kit is fully battery powered. This makes installation easy. The built-in communication module can connect to the 4G LTE-M and 2G network.

The Ei Electronics smoke detector has a 10-year battery. Mobeye communication module works for more than a year on batteries. A message is sent when the batteries need to be replaced. By adding the AC-FA-EP accessory an external 12-24V DC source or mains adapter can be attached.

Stand-alone fire detectors, or several detectors in a network

The CM4400 is suitable for situations where one smoke detector is sufficient.
If multiple interconnected fire detectors hav been opted for, an (externally powered) Ei Electronics relay module (Ei428RF or Ei413RF) is to be included in the wireless network with the communication module Mobeye PowerGuard (CM4100) connected to it. As soon as one of the detectors notices a fire, all sirens will sound and the Mobeye communication module will send a notification.

If smoke detectors are unsuitable, heat detectors are an alternative.

security. anywhere. anytime.   mobeye.com

CM4400
Mobeye 2G/4G Smoke Detector

HOW IT WORKS

1 CM4400 SmokeDetector — mobeye

2

3 ALARM

The Mobeye CM4400 smoke detector kit warns people on the spot in the event of a fire, as well as contacts elsewhere. It makes the difference in helping the vulnerable and in the event of fire in vacant buildings.

1 Activate the detector in a few steps and set up the contacts.

2 Mount the smoke detector to the ceiling in a clean and dry area.

3 In the event of a fire, the siren sounds and the set contacts are informed by telephone.

Mobeye SIM, Portal & App service

The Mobeye Internet 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.

CM4400 - Technical data

Article number	Product
CM4400	• 4G communication module with Ei Electronics smoke detector, for stand-alone use 1x CM4410, 1x Ei65oiC, 2x CR123 batteries, SIM card
CM4400H	• 4G communication module met Ei Electronics heat detector, for stand-alone use 1x CM4410, 1x Ei603TYC, 2x CR123 batteries, SIM card
CM4400HRF	• 4G communication module with Ei Electronics heat detectoren and RF module, for use in network with Ei detectors 1x CM4410, 1x Ei603TYC, 1x Ei650M, 2x CR123 batteries, SIM card
CM4410	• 4G communication module as extension set for Ei650iC, Ei605TYC or Ei603TYC 1x CM4410, 2x CR123 batteries, SIM card
CM4100 + Ei413RF CM4100 + Ei428RF	• Fire communication kit 1 as extension set for multiple (Ei) RF-fire detectors: 1x CM4100, 1x Ei413RF • Fire communication kit 1 as extension set for multiple (Ei) RF-fire detectors: 1x CM4100, 1x Ei4428RF
(Alarm) messages	• fire alarm, battery low voltage, (missed) test report • to private contacts via app, call, text message and/or e-mail, or to a control room (ARC)
Setting options	• contacts (unlimited number) for alarm and service messages, message texts, test interval (keep-alive), ARC, etc.
CM4400	• includes Ei650iC, optical smoke detector (>85 dB at 3 m), complies EN 14604, for use in residential areas, 0 °C ... 40 °C • diameter 12 cm, height 6,7 cm
CM4410	• power supply included: 2 x CR123 lithium batteries (battery life time: > 1 year at normal use) • option: power module with country specific mains adapter (AC-FA-EP)
CM4100	• power supply included: mains adapter + 2x CR123 lithium batteries (back-up in case of power failure)

Connectivity	• 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
	• 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands

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.

security. anywhere. anytime.

mobeye.com

mobeye®

Call for help
at the touch of the button

CM4500
Mobeye Panic Button

The Mobeye Panic Alarm notifies contact persons after pressing the button. The panic button requires no wiring and runs on batteries for a long time. Compact and reliable. The box can be placed close to a person, under a desk, bed or near a machine. The built-in communication module can connect to the 4G LTE-M and the 2G network.

After the button has been pressed, the Panic Button alarms with a push message, telephone call, SMS and/or e-mail. The contact persons can be set, with multiple options for the alarm message. Reporting to an emergency room (ARC) is also possible.

The Mobeye Panic Alarm works for more than a year on a set of batteries. The response time is around 20-25 seconds. This time can be shortened by using an external power source (12-24V DC or mains voltage).

The set-up is ready in a few simple steps. The detector may be placed as free-standing unit or hung via the mounting holes.
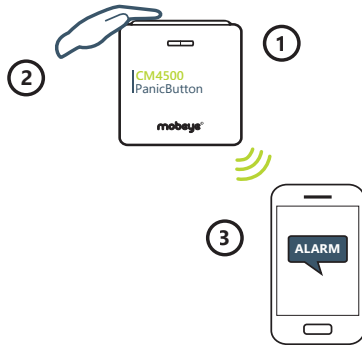
Panic button for extra security

The button is located at the backside of the housing, ideal for operation from under a desk or bed. If a larger single touch button is required, an external button can be connected.
Typical applications are personal protection for lone workers, vulnerable people at home or as a safety measure for (store) staff.

security. anywhere. anytime.   mobeye.com

CM4500
Mobeye Panic Button

The Mobeye CM4500 alerts contacts after pressing the button. The panic alarm sends a notification to predefined contacts. This provides extra security in vulnerable situations.

1. The settings and contacts are prepared in a few steps. Fix the box in a place close to the person.

2. After pressing the button, the communicator will react immediately and send the alarm messages.

3. The contacts are informed by telephone with a predefined alarm text. When using the portal and app, an escalation plan including alarm confirmation can be set.

Mobeye SIM, Portal & App service

The Mobeye Internet 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.

CM4500 - Technical data

Contents	• CM4500, 2x CR123 batteries, SIM card
(Alarm) messages	• panic alarm, power failure, 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, test interval (keep-alive), ARC, etc.
Inputs	• push button, 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	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, external push button

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.

To monitor power loss, leakage, temperature deviation and battery voltage

CM4600
Mobeye CombiGuard

For optimal control and monitoring, the Mobeye CM4600 combines various sensors and signals. A reliable aid to monitor risks and limit damage. The user receives notifications at problems with temperature, water level, battery voltage, potential-free sensors and the power supply. The device is fully battery powered, or uses external power. The communication module can connect to the 4G LTE-M and the 2G network.

In the event of a status change the Mobeye CombiGuard alerts with a push notification, telephone call, SMS and/or e-mail. Various contact persons can be set, with multiple options for the alarm message.
The Mobeye CombiGuard runs for more than a year on a set of batteries. When the battery voltage is low, a message is sent. 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.

Always up to date

An online portal and app makes set-up easy and gives the user insight into the status of the various sensors and connections.
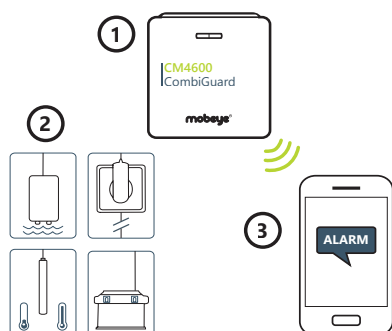• temperature sensor
• water leak sensor
• 2x input for battery voltage or potential-free contacts
• (shore) power supply, or 12-24V DC
• open collector output

security. anywhere. anytime.   mobeye.com

CM4600
Mobeye CombiGuard

HOW IT WORKS

The Mobeye CombiGuard monitors your property remotely. Once the status changes, the alarm dialer immediately sends a notification. That way you are completely in control.

1 Attach one or more of the included sensors, adapter and/or connect a battery to monitor voltage. Set a battery and temperature limit.

2 The CombiGuard detects any deviation on the sensors and inputs. When connected to external power, it also registers power failure.

3 In case of deviations, the CombiGuard sends alarm messages to the contact persons, via push message, telephone call, SMS and/or e-mail..

Mobeye SIM, Portal & App service

The Mobeye Internet 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.

CM4600 - Technical data

Contents	• CM4600, temperature sensor (1m), leakage sensor (1m), (country specific) mains adapter, 2x CR123 batteries, SIM card
(Alarm) messages	• temperature alarm, water alarm, low battery voltage, NO/NC 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	• 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 NO/NC/AN, recovery messages, alarm delay times, test interval (keep-alive), etc.
Operation	• arming and disarming via button, time schedules and SMS
Inputs	• 2x NO/NC/AN (potential-free or analog), 1x temperature, 1x water, 1x 12-24V DC (+/- 2V)
Output	• open collector (at external voltage), max. 200mA. Switches on alarm or after incoming SMS
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	• 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 • 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. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• extension cable water/temperature sensor (3m or 10m), magnet contact, float sensor, 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.

security. anywhere. anytime.   mobeye.com

mobeye®

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.

security. anywhere. anytime.   mobeye.com

CML4055
Mobeye CM-Guard TwinLog

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

Contents	• CML4055, 2x CR123 batteries, SIM card
(Alarm) messages	• voltage alarm, input alarm (NO/NC), 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	• voltage values, status, setting list, event history, network strength and position based on Cell ID
Setting options	• 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.
Operation	• arming and disarming via button, time schedules and SMS
Inputs	• 2x input, settable as analog or NO/NC (potential-free) voltage values 0-48V with peak voltage up to 64V • 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	• 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 • 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 wihtout the log function. The alarm notifications are sent via SMS and telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, 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.

security. anywhere. anytime.

Standard Industrial Sensor Transmission Module
Reading, alarming and logging of sensor values

CML4015
Mobeye SISTM

The Mobeye SISTM measures the values of industrial sensors with an analog output. The inputs of the SISTM read the output values and convert them into meaningful parameters. If (min./max.) limits have been set and these are exceeded, the contact persons receive an alarm message. Periodically, the sensor values are logged and displayed in an online portal.

The Mobeye SISTM is a 2-channel module, suitable for all sensors with an output value between 0 and (maximum) 10 Volt, or 4-20 mA. The analogue values ar converted to accurate and comprehesible values by setting the measuring range, conversion factor, and calibration value. The SISTM is connected to the Mobeye Internet Portal and (alarm) contact persons via the internal 4G LTE-M / 2G communication module.

External power versus autonomous battery operation

Sensor values

- 0 - (max.) **10V**
(0-1V, 0-3V, 0-5V, 0-10V)

- **4 - 20mA**

Typical measurements:
- pressure
- vacuum
- conductivity
- soil moisture
- humidity

CML4015-HP   Continuous measurement on the sensors. If the threshhold values is violated, an immediate alarm message follows. Periodic logging and data synchronization to the portal.
Externally powered; SISTM and sensors and operate on a 12-24V DC voltage source or via a mains adapter.
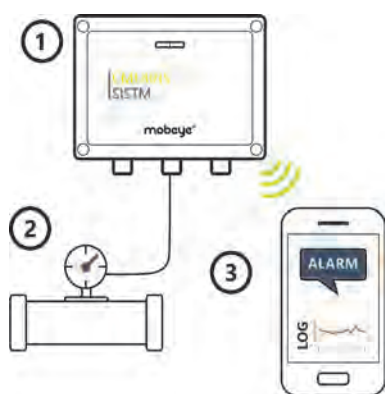
CML4015-LP   Periodic measurement on the sensors, with adjustable interval and warm-up time of the sensors. Periodic logging and comparison with alarm limit. If the alarm limit falls below or is exceeded, an alarm message follows. Periodic data synchronization to the portal.
Battery powered (6V) SISTM and sensors (5V/15V).

CML4015
Mobeye SISTM

The Mobeye SISTM measures the analog sensor values. Any sensor with a suitable output signal can be connected. If there is no voltage on site, the SISTM measures, reports and logs completely autonomously.

1 Select a suitable sensor and place it together with the Mobeye SISTM.

2 Set the warm-up time, calibration value, log frequency, alarm limits, and other settings and choose contacts for the notifications.

3 If the alarm limits are violated, the SISTM sends alarm messages to the contacts. The logged values are available online in table and graph form.

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.

CML4015 - Technical data

Contents	• CML4015-HP: incl. 2x CR123 batteries, SIM card • CML4015-LP: incl. SIM card
(Alarm) messages	• sensor 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	• sensor values, status, setting list, event history, network strength and position based on Cell ID
Operation	• arming and disarming via button, time schedules and SMS
Setting options	• min./max. alarm limits per sensor input, log interval (in min.), interval for data synchronisation (in hours), input type (0-1V, 0-10V, 4-20mA), sensor warm-up time, measurement continuous vs. periodic, calibration value, conversion value, label, repeat cycles, alarm delay times, test interval (keep-alive), contact persons (unlimited number) for alarm and service messages, message texts, etc.
Inputs	• 2x analog input
Output	• open collector (at external voltage), max. 200mA. Switches in the event of an alarm or after incoming SMS/call
Power supply	• CML4015-HP: 12-24V DC (regulated) + 2x CR123 lithium • CML4015-LP: 6-12V (7,2V battery pack available as accessory) power supply to sensor: 5V of 15V
Battery lifetime	• CML4015-HP: > 3 jaar at normal use • CML4015-LP: dependent on use up to 10 years
Dimensions & IP value	• CML4015-HP: 130 x 85 x 35 mm, IP67 • CML4015-LP: 130 x 85 x 60 mm, IP67
Connectivity	• 4G LTE-M + 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
Accessories (not included)	• 7,2V 34Ah battery pack, 6,0V 4,8Ah battery pack, mains adapter, external antenna • various sensors, consult Mobeye for advice