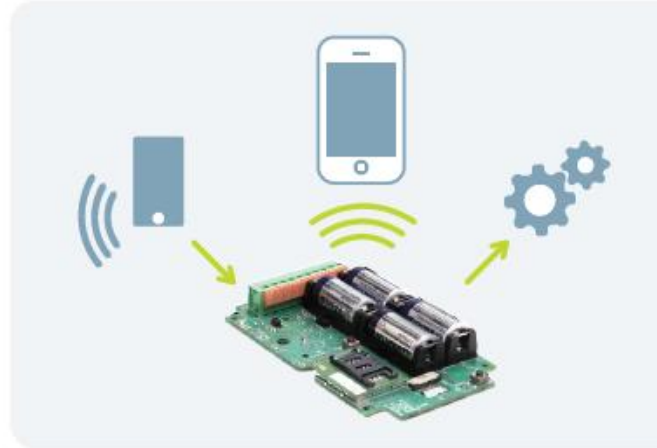


MOBEYE GSM/GPRS telemetry

With Mobeye telemetry modules you can measure, control, log and alarm; the built-in GSM dialler sends messages to the preset phone numbers.

The Mobeye CM21, and XM2 XM2-LP modules alert (up to) five numbers via SMS and/or call. To the two (NO/NC) inputs sensors can be connected in order to trigger an alarm. The XM2 XM2-LP modules have two exits, which can be switched in the event of an alarm or time-based. When the module is equipped with external power supply, the outputs can be controlled remotely by an incoming call or SMS. You can use a SIM card from any provider.



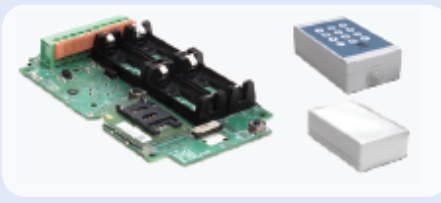
Mobeye CM21

The compact CM21 has two (NO/NC) inputs and an open collector output. It is extremely energy efficient and can be completely battery operated (50µA). The GSM dialler is only open if necessary. When connected to external power (12VDC), the batteries have a backup function. Then the GSM dialler is always open and the module is accessible remotely.



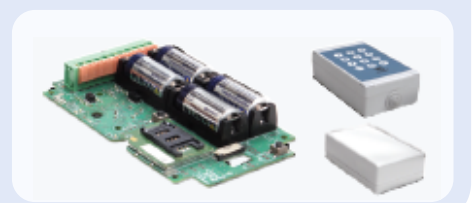
Mobeye XM2

The telemetry module XM2 has two (NO/NC) inputs, two relay outputs and operates on 9-32 VDC (with backup batteries). Through call or SMS, it is possible to operate the unit by remote control. The user can choose whether the GSM module - after power failure- goes into sleep mode (1 mA) or remains accessible for commands.



Mobeye XM2-LP

The XM2-LP is extremely energy efficient, has two (NO/NC) inputs and two relay outputs. The module can be powered solely on batteries, while the alarm functions remain active. The GSM dialler just switches on in order to alarm. Connection to 9-32 VDC is also possible. In the event of a power failure, the module will return to the low power mode (50µA).



Choice of settings

Mobeye telemetry modules are configurable in an easy and flexible way. The action-reaction patterns in the event of an alarm can be freely adjusted. Other options are timed actions, delay and repetition times, pulse times for the outputs, et cetera.

Internet Portal



Connection to Mobeye Internet Portal further expands the possibilities. GPRS (and backup SMS) notifications via the portal - per mail or SMS text - can be despatched. In addition, all data and messages are logged and the keep-alive messages are monitored automatically.

GSM/GPRS telemetry solutions

The CM21, XM2 en XM2-LP modules are applied in a range of ready-to-go products with a specific measurement and alarm function. Examples are: Mobeye PowerGuard, ThermoGuard, WaterGuard, GSM smoke detector, GSM Power Failure Detector and GSM Temperature Detector. The Mobeye CM21 and XM2 range are also the basis for customer-specific solutions. The modular design of hardware and software make customisations flexible and efficient to implement.



About Mobeye

The Dutch company Mobeye is specialized in high quality GSM/GPRS alarm and telemetry technology. Mobeye products are characterised by configuration flexibility, user friendliness and an extremely low power consumption. Mobeye aims to design and market products that contribute to a safer world for its customers.

Characteristics Mobeye GSM/GPRS Telemetry Modules		CM21	XM2	XM2-LP
Security	• Pin code for control and configuration	✓	✓	✓
Inputs	• 2x NO/NC (adjustable)	✓	✓	✓
Outputs	• 1 (open collector, max. load 300V) • 2 (relays, max. load 2A/30V)	✓ -	- ✓	- ✓
Alarm functions	• SMS and/or call after an alarm and alarm restore (5 phone no's) • SMS and/or call after power failure and restore • Control of outputs	✓ ✓ ¹ -	✓ ✓ ✓	✓ ✓ ¹ ✓
SMS status messages	• Low battery • Test messages ('keep alive')	✓ ✓	✓ ✓	✓ ✓
Control/Telemetry	• Arm/disarm by on/off button • Arm/disarm via pin code on keypad • Arm/disarm via SMS/call • Time-based arm/disarm and control outputs • Control output(s) remotely, by SMS/call	✓ - - - ✓	- ✓ ✓ ✓ ✓	- ✓ - ✓ ✓
Configuration	• Via SMS commands • Via keypad	✓ -	✓ ✓	✓ ✓
Mobeye Internet Portal	• Despatch alarm messages (e-mail/SMS), monitoring of keep-alive messages, status display and log	✓	✓	✓
Adjustable settings	• 5 phone numbers, alarm delays, inactive time, alarm texts, interval test messages, alarm repeats, switch behaviour of outputs, et cetera.	✓	✓	✓
Power supply	• Battery operated (2 x CR123), optionally 12 VDC • Battery operated (4 x CR123) • 9-24 VDC with option for back-up batteries (4 x CR123)	✓ - -	- - ✓	- ✓ -
Ambient temperature	• -10° C ... 55° C	✓	✓	✓
Dimensions	• 75 x 51 x 29 mm (option: enclosure 80 x 60 x 40 mm) • 80 x 127 x 25 mm (option: enclosure 90 x 145 x 45 mm)	✓ -	- ✓	- ✓
Battery lifetime	• Low power versions (battery operated): > 1 year • When powered externally >2 years	✓ ✓ ¹	- ✓	✓ -
Characteristics development platform	• Additional (NO/NC/digital/analogue) inputs, GPRS/web portal, et cetera. • i ² c databus, additional (relays, digital, serial) outputs, keypad, display, rechargeable batteries, external LEDs, interface to extension boards, et cetera.	✓ -	✓ ✓	✓ ✓
GSM/GPRS	• Quad band EGSM 900/1800 - 850/1900 MHz	✓	✓	✓
Complies to	• ETSI EN 301 489-1 V1.5.1, 301 489-7 V1.2.1, 301 511 V9.0.2, CENELEC EN 60950:2001	✓	✓	✓

1 = powered externally