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HOW TO GET STARTED GUIDE

Modules for remote signalling 1.0 and 4.0 for the ION-LINE

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1. INTRODUCTION

When using the enclosed Mobeye multiprovider SIM card, setup is done online via the Mobeye SIM/portal.

Setup includes registering at www.mymobeye.com, entering the SIM card number, activating the device, and confirming the terms and conditions.

Payment is made by credit card or alternative payment methods in consultation with Mobeye. The device will then appear in the online dashboard, where it can be configured.

2. SCOPE OF DELIVERY

Before starting up, check that all components are present!

2.1. COMMON SCOPE OF DELIVERY

- Module for remote signalling (CM4100 or CM4040)
- Power supply unit 230 V / 12 V
- 2× CR123 lithium batteries
- Mobeye multiprovider SIM card
- Original operating instructions and asecos supplement sheet EPV.33701 / EPV.36853

2.2. ADDITIONAL MODULE FOR REMOTE SIGNALLING 1.0 – CM4100

- **Black connector plug** for models: IO90.195.120.PC.WDC / IO90.195.120.PS.WDC
- **Brown connector plug** for models: IO90.195.060.CC.WDC / IO90.195.060.CS.WDC / IO90.195.120.CS.WDC / IO90.078.059.057.U9.S

2.3. ADDITIONAL MODULE FOR REMOTE SIGNALLING 4.0 – CM4040

- **Four green connectors** for models: IO90.195.120.065.WDEL / IO90.195.120.PC.WDC / IO90.195.120.PS.WDC

NOTE

Some ION-LINE cabinet models can be equipped with both the CM4100 and the CM4040.

3. REQUIREMENTS

Before you begin setup, please ensure that the following requirements are met:

- A 230 V power connection is available at the location where the safety storage cabinet is to be installed.
- If you are using your own SIM card, you will need a micro SIM card that does not have an active SIM lock or uses the PIN code 0000.

4. INSERT SIM CARD AND BATTERIES

1. Open the housing of the module for remote signalling.
2. Insert the micro SIM card into the SIM card slot.
3. Insert the two batteries.
4. Then close the housing again.

5. CONNECT THE POWER SUPPLY

Connect the power supply unit to the module for remote signalling and plug it into a 230 V power outlet.

During the network search, the LED flashes red/green for approx. 10–30 seconds; after successful network registration, it flashes briefly and then lights up green.

If the network search takes longer than approx. one minute, check the SIM card (PIN setting, seat, network coverage).

6. CONNECTOR FOR THE SAFETY STORAGE CABINET

Connect the module for remote signalling to the safety storage cabinet using the pre-assembled plugs. Depending on the module, the alarms are pre-assigned as follows:

6.1. MODULE FOR REMOTE SIGNALLING 1.0 – CM4100:

- **Black plug:** see Alarm 1
For models: IO90.195.120.PC.WDC / IO90.195.120.PS.WDC
- **Brown plug:** see Alarm 2
For models: IO90.195.060.CC.WDC / IO90.195.060.CS.WDC / IO90.195.120.CS.WDC / IO90.078.059.057.U9.S

NOTE

Only one collective alarm is ever forwarded with the CM4100.

6.2. MODULE FOR REMOTE SIGNALLING 4.0 – CM4040:

Four green plugs (IN1–IN4), each with its own alarm status:

- **Alarm 1:** Internal temperature > 50°C
- **Alarm 2:** Smoke detector detects smoke
- **Alarm 3:** Smoke detection + internal temperature > 70° C
- **Alarm 4:** Power failure

NOTE

With the CM4040, all alarms are evaluated separately and forwarded in a differentiated manner.

Once this step is complete, the hardware is fully installed. In the next chapter, you will set up alarm forwarding.

7. USING THE MOBEYE SIM/PORTAL (RECOMMENDED)

When using the enclosed Mobeye multiprovider SIM card, setup is done online via the Mobeye SIM/portal.

Setup includes registering at www.mymobeye.com, entering the SIM card number, activating the device, and confirming the terms and conditions.

Payment is made by credit card or alternative payment methods in consultation with Mobeye. The device will then appear in the online dashboard, where it can be configured.

8. OVERVIEW: PROGRAMMING WHEN USING YOUR OWN SIM CARD

- When using your own micro SIM card, the modules are programmed exclusively via SMS commands.
- Ensure that the module has an active network connection and is in programming mode.
- Send each programming command individually via SMS to the phone number of the SIM card used.
- Successfully accepted commands are confirmed by the module flashing green three times.

8.1. SET PROGRAMMING MODE

When operating via the power supply unit (recommended), the module is permanently in programming mode.

When operating exclusively on battery power, programming mode is activated either by pressing the control button for approx. five seconds or by briefly removing and reinserting the batteries.

During the network search, the module's LED flashes alternately red/green. As soon as the LED turns green continuously, the module is ready for programming.

8.2. NETWORK BEHAVIOR WHEN USING YOUR OWN SIM CARD

When operating with its own micro SIM card, the module primarily uses the 2G network. If this is not available, it automatically falls back to the 4G LTE-M network, provided that the SIM card is compatible and the APN settings are correct (see section 9.1).

When using the 4G LTE-M network, only SMS notifications are possible.

NOTE

If the module is running the latest software version, it will connect to the 4G network without any additional user settings. This can be identified by an additional "R" in the serial number. In this case, both SMS and call notifications are possible (e.g., SN R251103).

8.3. STRUCTURE OF AN SMS COMMAND

All commands are programmed using defined SMS commands and sent individually to the phone number of the SIM card used. Commands are always structured according to the following pattern:

CODE COMMAND:VALUE

- There must always be a space between CODE and COMMAND.
- The default code is always: "1111"

The LED indicates the result of the programming:

- Successful: 3x green flash
- Not successful: 5x red flashes.

9. IMPORTANT SMS COMMANDS

The following programming steps are required to fully set up the module. Perform these steps in the recommended order:

1. Program APN settings (if necessary)
2. Set phone numbers
3. Customize alarm texts
4. Select alarm types
5. Status queries for checking
6. Perform function tests

9.1. PROGRAM APN SETTINGS (OPTIONAL)

In most cases, no manual APN setting is required. APN configuration is only necessary if the module does not automatically connect to the mobile network (e.g., 4G LTE-M). This requires a compatible SIM card and the correct APN configuration from the mobile network provider. If you

do not know the APN data, you can obtain it from your mobile network provider. Programming is carried out via SMS according to the programming scheme described above.

Programming the codes:

- 1111 APN:[APNNAME]
- 1111 APNLOGIN:[USERNAME]
- 1111 APNPASSWORD:[PASSWORD]

9.2. PROGRAM PHONE NUMBERS

The recipient telephone numbers must be programmed in order to forward alarm messages. At least one telephone number (TEL1) is required; up to four additional recipients can be added optionally. After successful programming, the LED flashes green three times.

Programming the codes:

- 1111 TEL1:[PHONE NUMBER]
- 1111 TEL2:[PHONE NUMBER]
- 1111 TEL3:[PHONE NUMBER]
- ...

9.3. CUSTOMIZE ALARM TEXTS

The texts sent in the event of an alarm can be customized.

9.3.1. SYSTEM MESSAGES FROM THE MODULE FOR REMOTE SIGNALLING

These messages provide information about the power supply to the module for remote signalling and can be customized if necessary.

Text	significance	SMS command
TEXT 1	Power supply failed	1111 TEXT1:[TEXT]
TEXT 2	Power supply restored	1111 TEXT2:[TEXT]

NOTE

These messages refer exclusively to the power supply of the module for remote signalling, not to the safety storage cabinet.

9.3.2. ALARM MESSAGES FROM THE SAFETY STORAGE CABINET

These alarms are triggered by the connected safety storage cabinet.

Module for remote signalling 1.0 – Collective alarm

With module for remote signalling 1.0, a collective alarm is always forwarded. It is not possible to differentiate between individual alarm causes.

entrance	connector	alarm	SMS command
IN1	Black plug	Alarm 1	1111 TEXT3:[TEXT]
IN2	Brown plug	Alarm 2	1111 TEXT5:[TEXT]

Module for remote signalling 4.0 – Differentiated Alarms

With Module for remote signalling 4.0, the alarms of the safety storage cabinet are evaluated separately. A separate alarm text can be stored for each alarm status.

entrance	alarm	trigger	SMS command
IN1	Alarm 1	Temperature > 100 °F	1111 TEXT3:[TEXT]
IN2	Alarm 2	smoke detection	1111 TEXT4:[TEXT]
IN3	Alarm 3	Smoke + temperature > 70 °C	1111 TEXT5:[TEXT]
IN4	Alarm 4	power failure	1111 TEXT6:[TEXT]

9.4. TYPES OF ALARMS

Alarms can be forwarded via SMS or phone call. The following SMS commands can be used to enable or disable SMS or phone call notifications individually:

Programming the codes:

- 1111 CALL:[ON/OFF]
- 1111 SMS:[ON/OFF]

9.5. STATUS QUERIES

For monitoring purposes, you can check the device status, current settings, or call log via SMS.

Programming the codes:

- 1111 STATUS?
- 1111 SET?
- 1111 CALL?

10. FUNCTIONAL TESTS

Function tests can be performed on both the safety storage cabinet and the modules themselves.

10.1. FUNCTION TESTS ON THE SAFETY STORAGE CABINET

Power failure (only ULTRA and PRO models can be tested)

Disconnect the safety storage cabinet from the power supply:

- Module for remote signalling 1.0: Message "Alarm 1" or "Alarm 2" (depending on the cabinet model or alarm text)
- Module for remote signalling 4.0: "Alarm 4" message (or individual alarm text)

Smoke alarm (can be tested on all models)

Test the built-in smoke detector with a suitable smoke detector test spray.

- Module for remote signalling 1.0: "Alarm 1" or "Alarm 2" message (depending on the cabinet model or alarm text)
- Module for remote signalling 4.0: "Alarm 2" message (or individual alarm text)

NOTE

Perform at least one of the tests described to check the alarm

Forwarding temperature alarms (cannot be tested)

IMPORTANT / CAUTION:

Temperature alarms may occur (ULTRA and PRO models), but cannot be tested. An attempt to test them may trigger fire suppression and render the cabinet unusable.

10.2. FUNCTION TESTS ON THE MODULE FOR REMOTE SIGNALLING

Disconnect the module for remote signalling from the power supply. A "Power failure" message or the individually stored alarm text will be sent.

11. COMPLETION

The module for remote signalling is now fully configured and ready for operation.

For further information and additional device settings, please refer to the manufacturer's original operating instructions:

CM4100: <https://www.mobeye.com/files/UM-Mobeye-CM4100-EN-Actual.pdf>

CM4040: <https://www.mobeye.com/files/UM-Mobeye-CM4040-EN-Actual.pdf>



CM4100



CM4040

