# INSTALLATION MANUAL

# MyALARM2-3

## Advanced GSM/GPRS device for telecontrol

EN




CE

SENECA

ISO 9001:2008

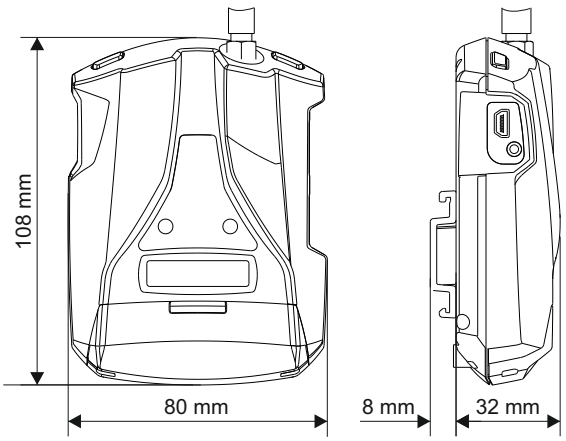
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Manuals and configuration software are available at website: www.seneca.it

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## MODULE LAYOUT




| | | | |
|---|---|---|---|
| **Weight** | 150 g. | **Case** | Polycarbonate / ABS material. |

## LED SIGNALLING ON FRONT PANEL

| LED | Status | LED's meaning |
|---|---|---|
| GSM (Yellow) | Slow Blinking<br>0.8s ON ■ 0.8s OFF ☐ | ■■■■☐☐☐☐■■■■☐☐☐☐<br>MyAlarm2-3 is Connected to GSM Network |
| | Fast Blinking<br>0.1s ON ■ 0.1s OFF ☐ | ■☐■☐■☐■☐■☐■☐■☐■☐<br>GSM Network Searching or Missing Signal |
| PWR (Green) | ON ■ | MyAlarm2-3 Powered ON |
| | OFF☐ | MyAlarm2-3 Turned OFF |
| | Fast Blinking<br>0.2s ON ■ 0.2s OFF☐ | ■☐■☐■☐■☐■☐■☐■☐■☐<br>Micro SD card Access |
| | Medium Blinking<br>2.8s ON ■ 0.4s OFF ☐ | ■■■■■■■■■■■■■■☐☐<br>Active Datalogger Function |

## GENERAL CHARACTERISTICS

- GSM/GPRS module for civil and industrial applications, for domotics, for safety: alarm management system and datalogger
- Display LCD 128 x 32 Dots
- Lithium-ion rechargeable battery, autonomy up to: 8 h
- Nr.4 digital inputs (available on internal terminals)
- Nr.2 analog inputs V / mA (available on internal terminals)
- Nr.1 temperature sensor input (NTC)
- Nr.1 GSM replaceable antenna on SMA connector
- Power ON / OFF button and display scrolling button
- Power Supply / Device Status LED and GSM status LED
- SIM card slot (SIM dimensions: 15 x 25 mm)
- Micro SD card slot
- Micro USB plug in for internal battery charging and module configuration
- Nr.2 relay digital outputs (optional board)



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## MOTHER BOARD SPECIFICATIONS

| | |
|---|---|
| **DIGITAL INPUTS** | 4 inputs |
| *Type* | Reed, contact, PNP, Pulscap |
| *Max. Frequency* | 30 Hz |
| *Threshold OFF* | 0 – 3 V ⎓, I < 1mA |
| *Threshold ON* | 6 – 24 V ⎓, I > 3mA |
| **ANALOG INPUTS** | 2 inputs |
| *Type* | Voltage 0 – 30 V ⎓ / Current 0 – 20 mA |
| *Accuracy* | 0.1% of full-scale |
| **VOLTAGE OUTPUT** | +12 V ⎓, 50 mA (Max. current) |
| **TEMPERATURE SENSOR** | Termistor NTC |
| **USB PORT** | 1 micro USB socket for battery charging and device configuration |
| **DISPLAY** | LCD 128 x 32 dots, visible area 39 mm x 8.6 mm |
| **Micro SD slot** *Type / Memory* | Push-Push for SD card and SD HC card / max 32GB |
| **SIM slot** *Type* | Push-Push for mini SIM (15 x 25 mm) |
| **GSM** | Quad band (850 / 900 / 1800 / 1900 MHz) |

## RELAYS (OPTIONAL) BOARD SPECIFICATIONS

| | |
|---|---|
| **DIGITAL OUTPUTS** | 2 outputs |
| *Type* | Relay 3 A max (on common terminal) - 250V SPST (with common terminal) |

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **POWER SUPPLY** | |
| Voltage | 6 – 15 V ⎓, 500 mA Max. |
| *Consumption* | 3.5 W Max. |
| *Internal battery* | Lithium ions 3.7 V - 1000 mAh, rechargeable not replaceable.<br>Dimensions: 53 mm x 34 mm x 6 mm |
| **ENVIRONMENTAL CONDITIONS** | **Seneca recommends use from 0 to 45 ° C for proper operation.** |
| *Temperature* | With external power supply: -20 – +55°C.<br>With battery power supply (in discharge): -20 – +45°C.<br>Possible recharging range: 0 – +45°C. |
| *Humidity* | 30% – 90% non condensing. |
| *Storage Temperature* | from -20 °C to +20 °C < 1 year<br>from -20 °C to +45 °C < 3 months<br>from -20 °C to +60 °C < 1 month |
| *Protection degree* | IP20 |



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## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **STANDARDS** | **ETSI EN 301 489-7**<br>**EN301 511**<br>**EN301 489-1**<br>**IEC / EN 60950** |
| **CONNECTIONS** | Push-wire terminals, pitch 3,5 mm, Micro USB socket<br>SMA connector for GSM Antenna. |
| **INCLUDED ACCESSORIES** | 12 V ⎓ power supply (with crimp terminals), DIN rail IEC EN 60715 support, Nr. 2 screws, Nr. 2 expansion plugs for wall fixing, GSM antenna, installation manual and USB cable. |
| **CPU** | ARM 100 MHz 32bit |
| **INTERNAL MEMORIES** | FLASH 2M Byte (log) |

## CASE SYMBOLS

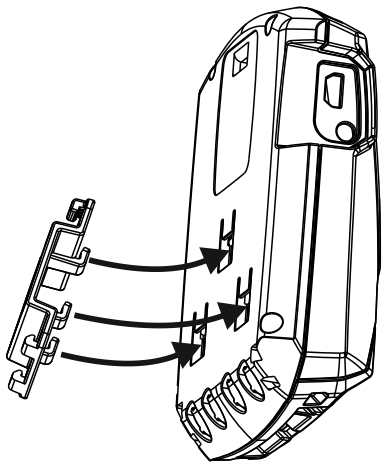
| | | | |
|---|---|---|---|
| ⏻ | ON/OFF button (PWR) | SIM | SIM card slot |
| Y | GSM antenna | SD | micro SD card slot |
| ▭ | Display scroll button (SCR) | ⇄ | micro USB socket |

## INSTALLATION RULES

The device can be installed on a wall or on a DIN rail EN 60715, in vertical position.
Never place this device inside metal cabinets or near heat sources.

## INSTALLATION ON IEC EN 60715 DIN RAIL AND WALL FIXING

**Insertion on DIN rail**:
1) Insert the three hooks of support for DIN rail into the three holes in the rear side of the MyALARM2-3 and fix the device to the support.
2) Hook support and device to the CEI EN 60715 DIN rail.
**Wall mounting**:
1) The two holes on the support for DIN rail allows to fix it to the wall with included plugs and screws.
2) Fix the device on the support to the wall by the three holes in the rear side of the case.





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## PRELIMINARY WARNINGS

Disposal of electrical & electronic equipment (applicable throughout the EU and other countries with separate collection programs). The symbol found on this product or on its packaging, indicates that this product it must be handed over to an authorised collection point for **the recycling of electrical and electronic equipments.**

**Before performing any operation it is mandatory to read the full contents of this manual.** The module may only be used by qualified and skilled technicians in the field of electric installation**.** Specific documentation is available for download at website: www.seneca.it.

Only the Manufacturer is authorized to repair the module or to replace damaged parts. The product is susceptible to electrostatic discharge, take appropriate countermeasures during any operation.

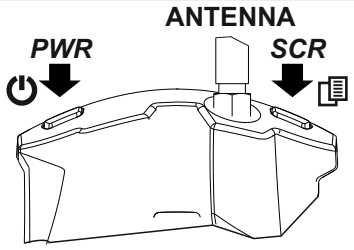
The warranty is null and void in case of improper use or tampering of the module or devices supplied by the Manufacturer, necessary for its correct operation and if the instructions in this manual have not been complied with.

## SWITCHING THE DEVICE ON FOR THE FIRST TIME

The MyALARM2-3 is delivered in "*shipping mode*".
This mode avoid unnecessary discharge of the battery during storage and shipping.
**When you switch ON the device, for the first time, please supply power by Usb port or by the included power supply.** This procedure allows the exit from "*shipping mode*"**.**
**WARNING:** When the device is turned ON for the first time, it must be supplied, without any interruptions, for at least 4 hours in order to charge the internal batteries.

- **POWER ON BUTTON AND SCROLL BUTTON**

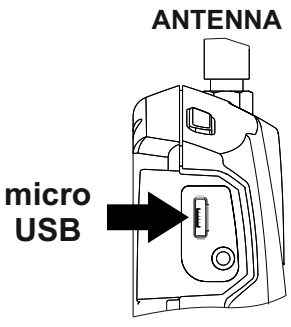
The device has the PWR button, placed in the upper left side (front view).
By pressing this button the module can be switched on.
Hold down the PWR button for a few seconds to turn off the module.
The device has the SCR button, placed in the upper right side (front view).
By pressing of this button you can scroll the display parameters.




- **USB PORT AND POWER SUPPLY**

The device has a micro USB socket placed on the left side of case, which can be used to configure the device, to update the firmware and to recharge the internal battery.
You can recharge the internal battery with:
- The included 12 V power supply connected to the terminals + and - (GND).
- A PC through the USB socket.
- An USB power supply (accessory) through the USB socket.

Power supply the device from USB socket is not suitable for fixed installations, or configurations where relays or digital inputs are used.




- **AUTO POWER-OFF**

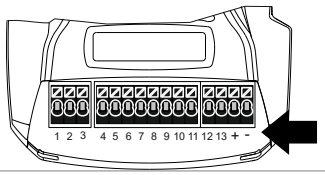
If the display indicates "**LOW BAT**" then the internal battery is almost empty and the device switches off automatically after 60 seconds.
To recharge the battery to an appropriate value: power supply the device with one of the above recommended ways.



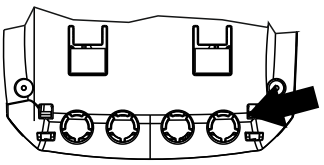
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# SAFETY INFORMATIONS

The MyALARM2-3 has 15 push-wire terminals inside of the case
For access to the terminals: unscrew the screw in the center of the black top cover placed in the lower part of the case, lift and remove the cover.
In the figure on side, the top cover has been removed.

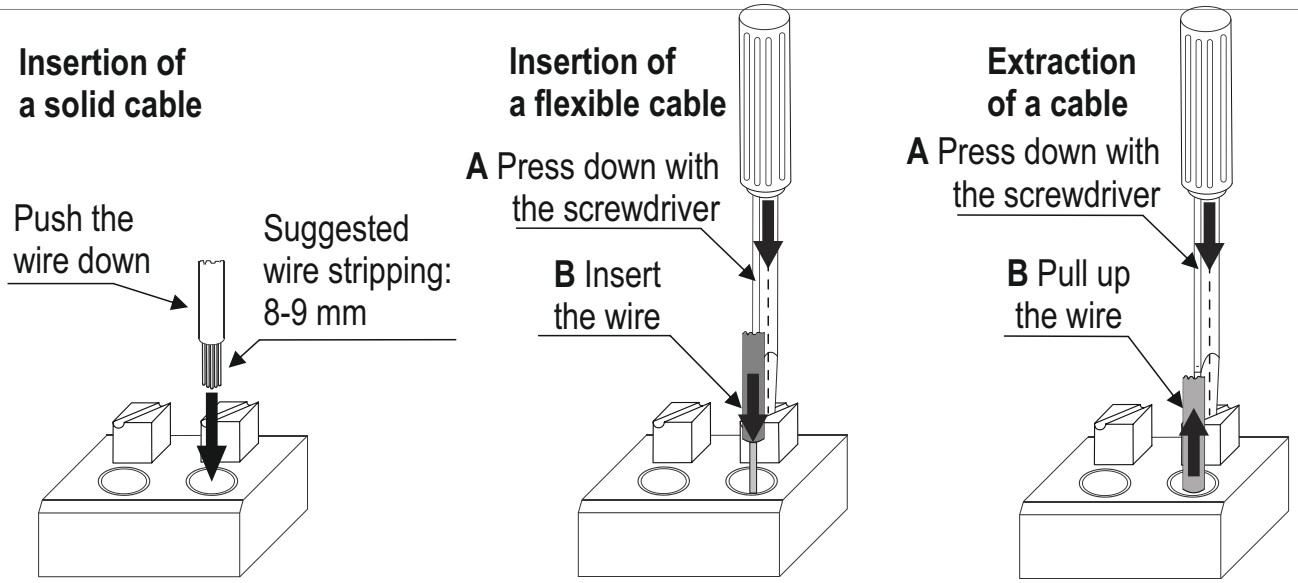



**CAUTION:** If the relay board is present, then the mobile wiring of the cables connected to the terminals is not allowed. To conveying the cables outwards from the terminals in order and in safety conditions, use the **four detachable passages** located at the rear of the enclosure. When the wiring is finished, fix the black cover on the device, with the screw, to prevent any accidental contact.

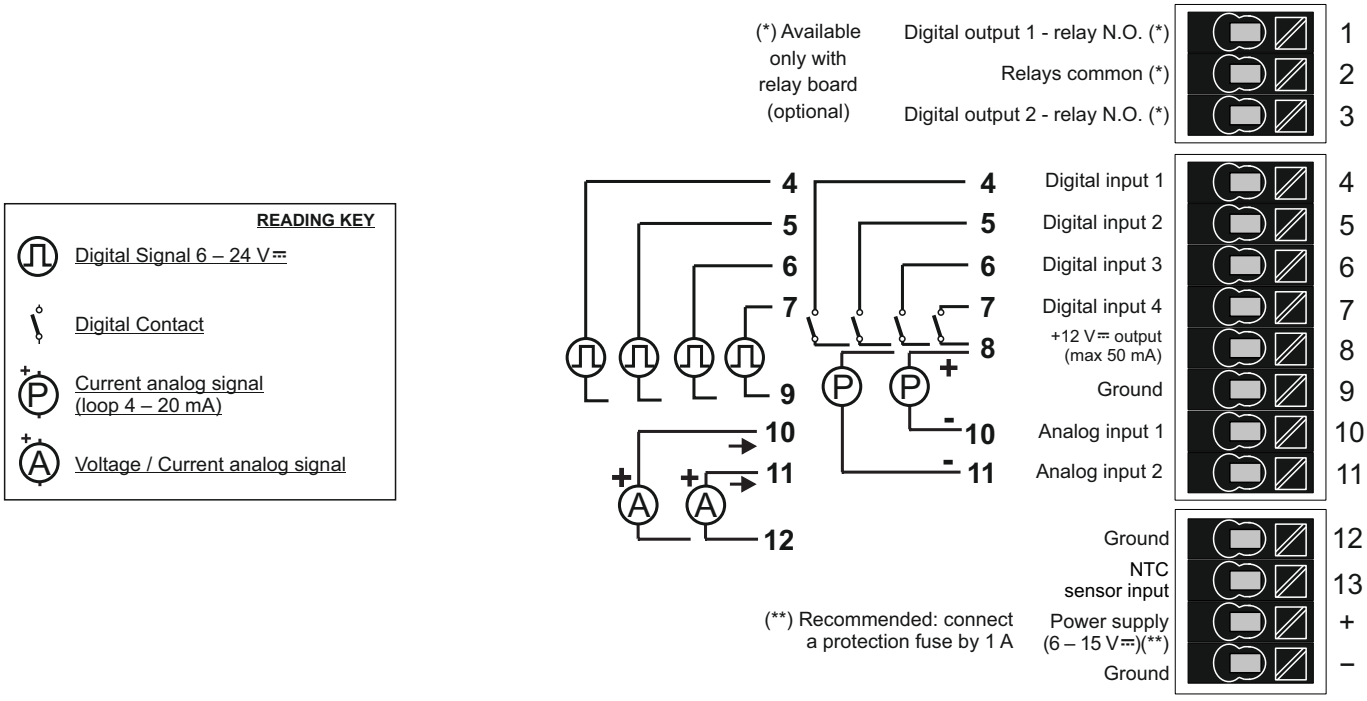


# ELECTRICAL CONNECTIONS

- **INSERTION AND REMOVAL FROM THE TERMINALS WITH PUSH-WIRE CONNECTION**




- **PUSH-WIRE TERMINALS**



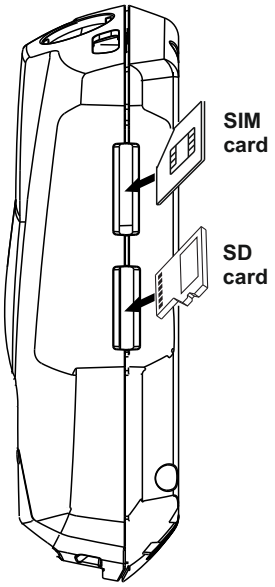



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# SIM-CARD AND SD-CARD INSERTION

- **SIM CARD INSERTION**

MyALARM2-3 has a SIM slot, placed in the right side of the case.
Before inserting the SIM card into the slot, make sure that the SIM card's contacts are facing to the left (as shown in the figure).




- **MICRO SD CARD INSERTION**

MyALARM2-3 has a SD card slot, placed in the right side of the case.
The SD card can be used for data logging and for MyALARM3 firmware update.
Before inserting the SD card into the slot, make sure that the SD card's contacts are facing to the left (as shown in the figure).



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## OPTIONS

**MY2 [B] [S] - [0] [R] - 0 - M - [B] [G]**

| TYPE | RELAYS | COLOR |
|---|---|---|
| B=Base | 0=Absent | B=Blue |
| S=Security | R=Present | G=Grey |

EXAMPLE:
«MY2B-R-0-M-G» MyALARM2-3 Base with two relay outputs, push-wire terminals and grey case.

## ORDER CODES

| Code | Description |
|---|---|
| | |
| | |
| | |
| | |
| | |

## CONTACTS

| | |
|---|---|
| Technical support | support@seneca.it |
| Product Informations | sales@seneca.it |



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