INSTALLATION MANUAL

MyALARM2-4G

PRELIMINARY WARNINGS

The word **WARNING** preceded by the symbol ⚠ indicates conditions or actions that put the user's safety at risk. The word **ATTENTION** preceded by the symbol ⚠ indicates conditions or actions that might damage the instrument or the connected equipment.
The warranty shall become null and void in the event of improper use or tampering with the module or devices supplied by the manufacturer as necessary for its correct operation, and if the instructions contained in this manual are not followed.

⚠	**WARNING**: The full content of this manual must be read before any operation. The module must only be used by qualified electricians. Specific documentation is available using the QR-CODE shown on page 1.
	The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation.
	Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling). The symbol on the product or its packaging shows the product must be surrendered to a collection centre authorized to recycle electrical and electronic waste.

My2SL
DOCUMENTATION

My2GL
DOCUMENTATION

SENECA

QUALITY MANAGEMENT SYSTEM
ISO 9001:2015

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CONTACT INFORMATION

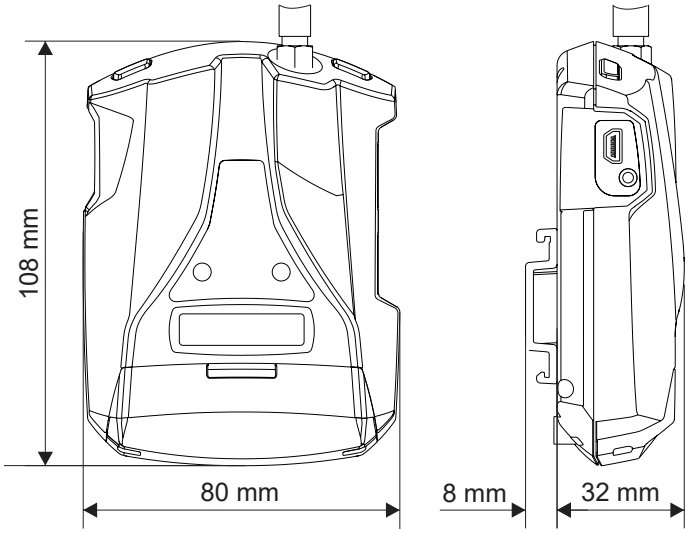
Technical support	support@seneca.it	Product information	sales@seneca.it

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MODULE LAYOUT

CASE DIMENSIONS



SYMBOLS ON THE ENCLOSURE

	ON / OFF power button
GPS	GPS antenna
	Menu access button
SIM	Slot for mini SIM
SD	Slot for micro SD card
	Micro USB connector

Weight	150 g	**Case**	Polycarbonate / ABS material

SIGNALS VIA LED ON FRONT PANEL

LED	STATUS	LED meaning
PWR (Green)	On	Device ON
	Off	Device OFF
	Fast flashing	Access to micro SD card
	Slow flashing	Device in datalogger function
NET (Yellow)	On	modem connecting
	Fast flashing	Modem connected correctly
	Off	Modem switched off

TECHNICAL SPECIFICATIONS

CERTIFICATIONS	CE UKCA
POWER SUPPLY	Voltage: 6 ÷ 15Vdc, 500mA Max. Battery: Lithium Ions 3.7 V ÷ 1000mAh, rechargeable non-replaceable. Internal battery absorption: 3.5 W Max.
DIGITAL INPUTS	4 inputs Type: Reed, contact, PNP, Pulscap 30 Hz Maximum frequency Threshold OFF: 0 ÷ 3 Vdc, I < 1mA Threshold ON: 6 ÷ 24Vdc, I > 3mA
ANALOG INPUTS	2 inputs Type: Voltage 0÷ 30Vdc / Current 0÷ 20mA Precision: 0.1% of full scale
VOLTAGE OUTPUT	+12 Vdc 50 mA (maximum current)
TEMPERATURE SENSOR	NTC internal (as standard), external (option) thermistor
USB PORT	1 micro USB for configuration and supply
DISPLAY	128 x 32 LCD Dots with visible area of 39 mm x 8.6 mm
CONNECTIONS	Spring clamps, 3.5 mm pitch, connector for Micro USB and SMA connector for GSM antenna, MMCX for GPS (option)
INTERNAL MEMORY	FLASH 1 MB (program) + 8 MB (log + data)
Micro SD slot	Push-Push for SD card and SD HC card / max 32GB
SIM slot	Push-Push for mini SIM (15 x 25 mm)
FREQUENCY BANDS	LTE-FDD B1/B3/B5/B7/B8/B20 GSM/GPRS/EDGE 900/1800 MHz
ENVIRONMENTAL CONDITIONS	**Seneca recommends use between 0 and 45°C for the battery correct operation.** Temperature: with the power supply present: -20 ÷ +55°C; with use of the battery (when discharged): -20 ÷ +45°C. Charging is possible in the range: 0 ÷ +45°C. Humidity: 30% ÷ 90% non condensing. Storage temperature: from -20°C to +20°C < 1 year; from -20°C to +45°C < 3 months; from -20°C to +60°C < 1 month Protection rating: IP20

GPS CARD SPECIFICATIONS (OPTION)

RECEIVER	22 channels
SENSITIVITY	-165 dBm
FIX TIME	32 s usually
ACCURACY	Up to 2.5 m

RELAY EXPANSION CARD SPECIFICATIONS (OPTIONAL)

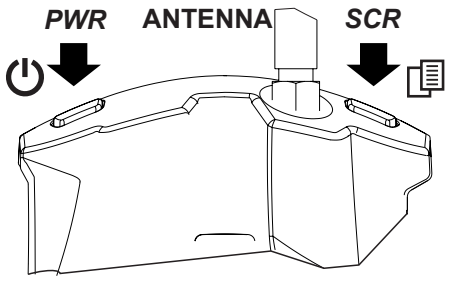
DIGITAL OUTPUTS	2 outputs Type: Relay 3 A max - 250V SPST (with shared terminal)

INITIAL POWERING ON OF THE DEVICE

Device is supplied in "*shipping mode*". This mode prevents any unnecessary discharge of the battery during transport as well as any accidental switch-ons.
To exit this mode, simply **power the device via the cable supplied.**
N.B.: During "*shipping mode*" the power button is disabled.

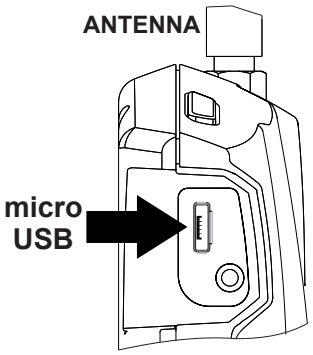
ON/OFF BUTTON AND SCROLL DISPLAY BUTTON

MyBoat is equipped with a PWR button located on the top left side (front panel view). Pressing this button turns the module on and off. To switch it off, hold the PWR key down for a few seconds.
MyBoat is also equipped with a SCR button, located on the top right side (front panel view). Pressing this key displays the parameters.



MICRO USB PORT AND POWER SUPPLY

The device has a micro USB connector on the left side of its enclosure, which can be used for configuration, firmware updates and to recharge the internal battery.
To recharge the internal battery, use:
- the 12 V power supply (supplied) by connecting the cables to the + and - terminals (GND).
- a PC via the micro USB port with a standard cable.
Power supply through the USB jack is not suitable for fixed installations, or configurations where relays and/or digital inputs are used.



AUTO POWER-OFF

If the display shows **"LOW BAT"**, it means that the internal battery is low, after 60 seconds the device switches off automatically.
To restore the battery charge to an appropriate value, recharge the device using one of the recommended modes.

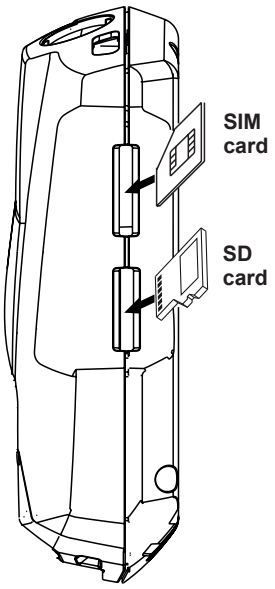
INSERTING THE SIM CARD AND SD CARD

INSERTING THE SIM CARD

The device has a slot for mini SIM located in the right side of the enclosure.
To insert the card in its corresponding slot, make sure the metal contacts are facing right (as seen in the figure).

INSERTING THE SD CARD

The control unit is equipped with an SD card input that can be used to update the device's firmware and update the information and connection parameters with the world's best known telephony operators.
The input for micro SD card is located on the right side of the enclosure.
To insert the SD card in its corresponding slot, make sure the metal contacts are facing right (as seen in the figure).



ASSEMBLY REGULATIONS

The device has been designed for vertical installation or on a DIN IEC EN 60715 omega rail.
Avoid mounting the device inside metal cabinets or on top of heat-generating equipment.

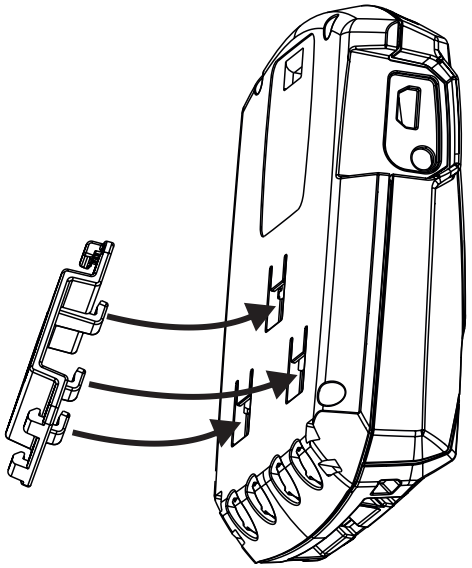
INSTALLATION ON DIN IEC EN 60715 RAIL AND WALL FIXING

As shown in the figure on the side:

1. Insert the hooks of the support for DIN IEC EN 60715 rail into the corresponding slots on the back of the container.
2. Hook the support to the DIN IEC EN 60715 rail.

Alternatively:

1. Through the two holes on the support for DIN IEC EN 60715 rail it is possible to fix it to the wall with the two anchors supplied.
2. The control unit can be fixed to the support by inserting the hooks of the support into the slots on the back.

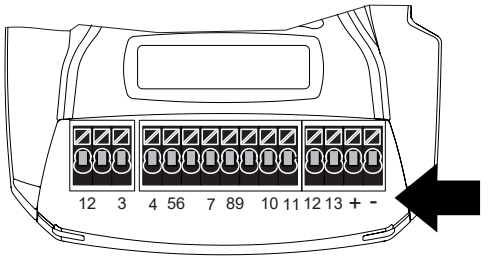


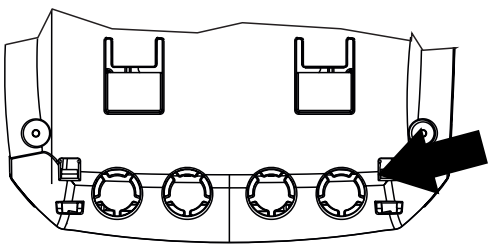
ASSEMBLY RULES FOR VERSION WITH GPS (OPTIONAL)

For optimal reception of the GPS signal given by the satellites, the control unit should be positioned in an area not covered by metal structures. If this is not possible or if the satellite reception is no good, an optional external antenna with 3m cable (code A-GPS) is available. Follow the procedure supplied with the package for the installation of the external antenna.

SAFETY INFORMATION

The control unit has a terminal block inside its enclosure.
To access the internal terminal block of the device, unscrew the screw at the centre of the black cover positioned at the bottom of the enclosure and lift up.
In the side figure, the cover has been removed.
IMPORTANT: With the relay card, mobile wiring of cables connected to terminals is not permitted. To make the cables from the terminals safe, use the break-out passages in the back of the enclosure. When the wiring is complete, fasten the protective cover on the device with the screw to prevent any accidental contact.

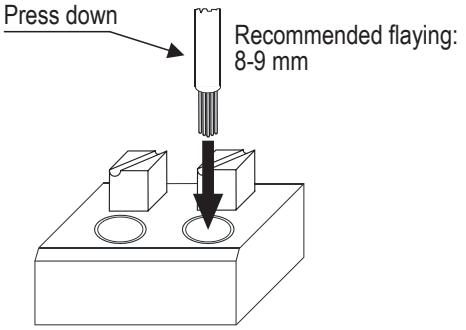




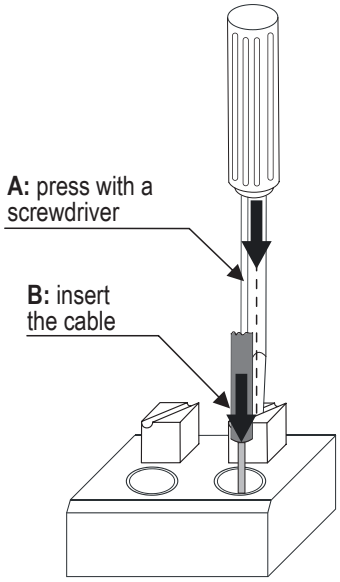
ELECTRICAL CONNECTIONS

INSERTION AND EXTRACTION FROM TERMINALS WITH A PUSH-WIRE CONNECTION

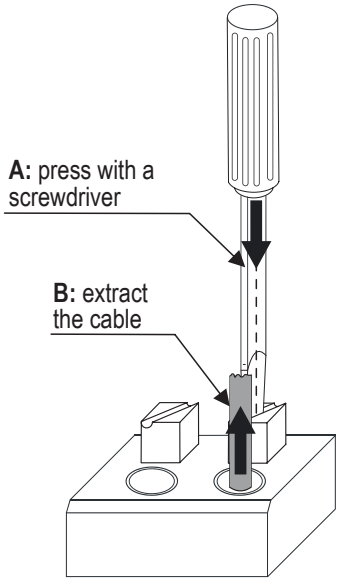
Insertion of a rigid cable



Insertion of a thin cable

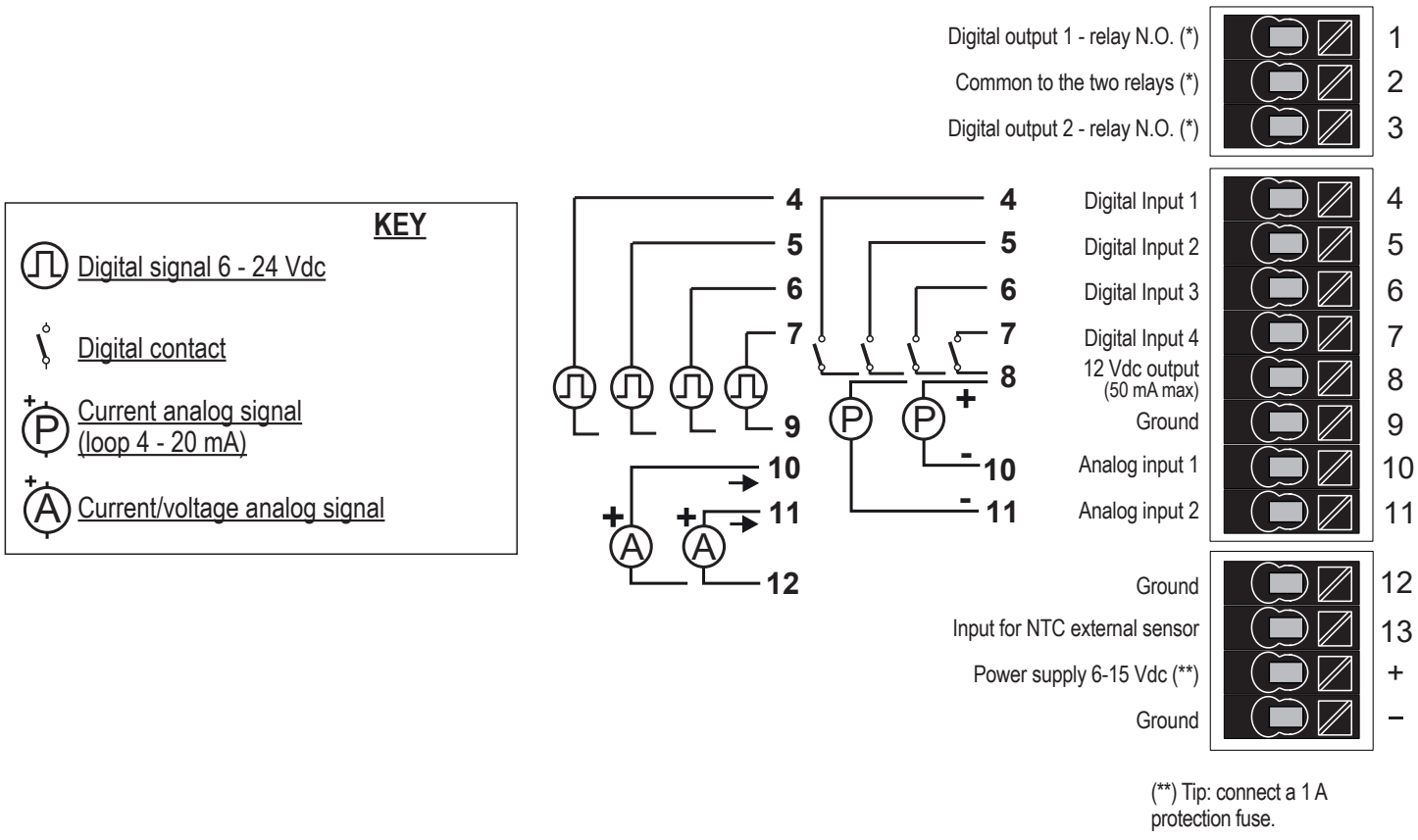


Extraction of a rigid cable



PUSH-WIRE TERMINAL BLOCK

(*) Available with the relay board (optional)

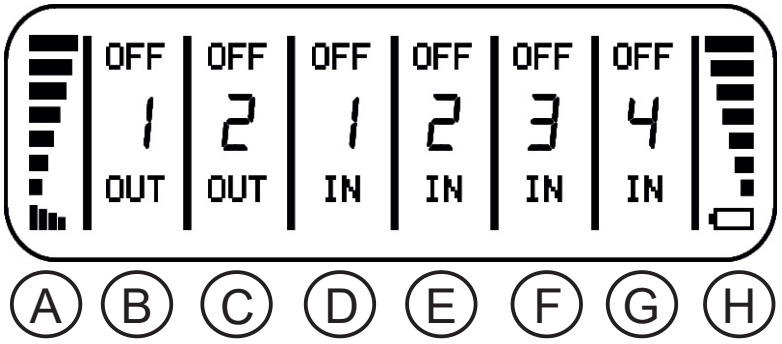


(**) Tip: connect a 1 A protection fuse.

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DISPLAY FUNCTIONS AND USE

The main display page provides the following information:



A - Network signal level
B - outlet 1 status
C - outlet 2 status
D - digital input 1 status
E - digital input 2 status
F - digital input 3 status
G - digital input 4 status
H - battery level

To change the page on the display, use the SCR key as shown in the "INITIAL POWERING" paragraph.
By holding the PWR key for a few seconds you will have access to the main menu:



To choose the desired command use the SCR key which allows you to scroll through the various options, to confirm the desired option press the PWR key.
It is also possible to call up the contextual menu of a page by holding down the SCR key for a few seconds.
Through a contextual menu it is possible to display other sub-pages and / or information.
Pages with contextual menus are identifiable by a triangle in the display top right corner.

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PRODUCT ID CODE

A label will be applied to the product packaging that allows you to recognize the model purchased.
Find below the meaning of the codes applied to the packaged instrument:

MY2	–	SL GL	–	R 0	–	W 0	–	C M	–	B G
EQUIPMENT NAME		MODEL: SL: SECURITY GL: DATALOGGER/GPS		RELAY: 0: ABSENT R: PRESENT		RADIO: 0: ABSENT W: PRESENT		CONNECTIONS: C: CONNECTIONS M: TERMINALS		COLOUR B: BLUE G: GREY