

MyBoat^{WR}



User Manual

ACTIVATION CODE

MyBoat_{WR}





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1 - WARNINGS SAFETY REGULATIONS



Electrical and electronic waste disposal (applicable in the European Union and other countries with selective waste collection). The symbol on the product or packaging shows that the product should be taken to an authorised recycling centre for electrical and electronic waste.



The full content of this manual must be read before any operation. The device is to be exclusively used by qualified electricians.



Damaged parts must be replaced or repaired by the manufacturer. The product is sensitive to electrostatic discharge, take the appropriate countermeasures during any operation.



The warranty expires in case of improper use or tampering with the device or accessories supplied by the manufacturer, necessary for its correct operation and if the instructions in this manual have not been followed.

WARNING

- Do not apply different voltages or higher voltages than indicated between terminals, or between any terminal and earth (voltages greater than 50Vdc)
- Do not use the MyBoat-WR control unit if damaged, or if signs of possible damage are visible on it.
- Do not remove the internal battery.
- Do not use the MyBoat-WR control unit if it runs abnormally.
- Do not touch the MyBoat-WR control unit terminals during use
- For correct use, use the cables supplied.

CAUTION

- Make sure the internal battery is charged if you intend to use the MyBoat-WR control unit without power
- Use the MyBoat-WR control unit as described in this manual.
- Before each use, refer to the electrical connections shown in the manual.

REFERENCE STANDARDS: ETSI EN 301-489-7
EN 301 511
EN 301 498-1
IEC / EN 60950



2 - PRODUCT DESCRIPTION

MyBoat-WR is a monitoring system consisting of a smart control unit and three sensors for the remote control and alarm management in real time of small boats, inflatables and whole fleets. The system is based on a Cloud platform offered by Seneca s.r.l. (<https://cloud.seneca.it>). The price of the product includes the subscription to the MyBoat Cloud service for the first two years from product activation.

For information and renewal costs of the service, go to www.seneca.it/myboat-wr.

MyBoat-WR is a service offering the main functions useful to monitor your boat through immediate consultation and the practical use of both browser and mobile APP. Using the app, available in the Apple and Android stores, you can check your boat while moving, verify the state of the sensors and be warned in real time in case of an alarm (push notifications, SMS or email).

NB: the SMS service can only be managed with SIM that support the SMS service

ASSEMBLY REGULATIONS

For optimum reception of the GPS signal given by satellites, it is better to place the MyBoat-WR horizontally on a surface in an area not covered by metal structures.

SYMBOLS ON THE ENCLOSURE



ON / OFF power button



Connector for charging and connecting to the battery sensor



Menu access button



Slot for the SIM



SD card slot



Locker and motor sensor connector

2 - PRODUCT DESCRIPTION

TECHNICAL SPECIFICATIONS	
Power supply <i>Voltage</i> <i>Absorption</i> <i>Internal batteries</i>	6 - 15 Vdc mA Max 3.5 W Max Lithium Ion 3.7 V -1000 mAh, rechargeable
Ambient conditions <i>Temperature</i> <i>Humidity</i> <i>Storage temperature</i> <i>Protection rating</i>	<u>Seneca recommends use at 0 to 45°C for correct operation</u> 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 30% – 90% non-condensing. from -20°C to +20°C < 1 year; from -20°C to +45°C < 3 months; from -20°C to +60°C < 1 month IP66
Digital inputs <i>Type</i> <i>Maximum frequency</i> <i>Threshold OFF</i> <i>Threshold ON</i>	2 inputs (dedicated to the locker and engine status control) contact 30 Hz 0 - 3 Vdc, I > 1 mA 6 - 24 Vdc, I > 3 mA
Analogue inputs	1 inputs (dedicated to reading the battery voltage)
Display	128x32 LCD Dots with visible area of 39 mm x 8.6 mm
CPU	100 MHz 32 bit ARM
INTERNAL MEMORY	FLASH 2 MBYTE (LOG)
GSM	QUAD BAND (850 / 900 / 1800 / 1900 MHz)
GPS SPECIFICATION	
RECEIVER	22 channels
SENSITIVITY	-165 dBm
FIX TIME	32 s usually
ACCURACY	Up to 2.5 m

MyBoat_{WR} control unit



The MyBoat-_{WR} control unit is a SENECA industrial-style product (MyAlarm2). Remote alarm, telemetry and data-logging industrial unit.

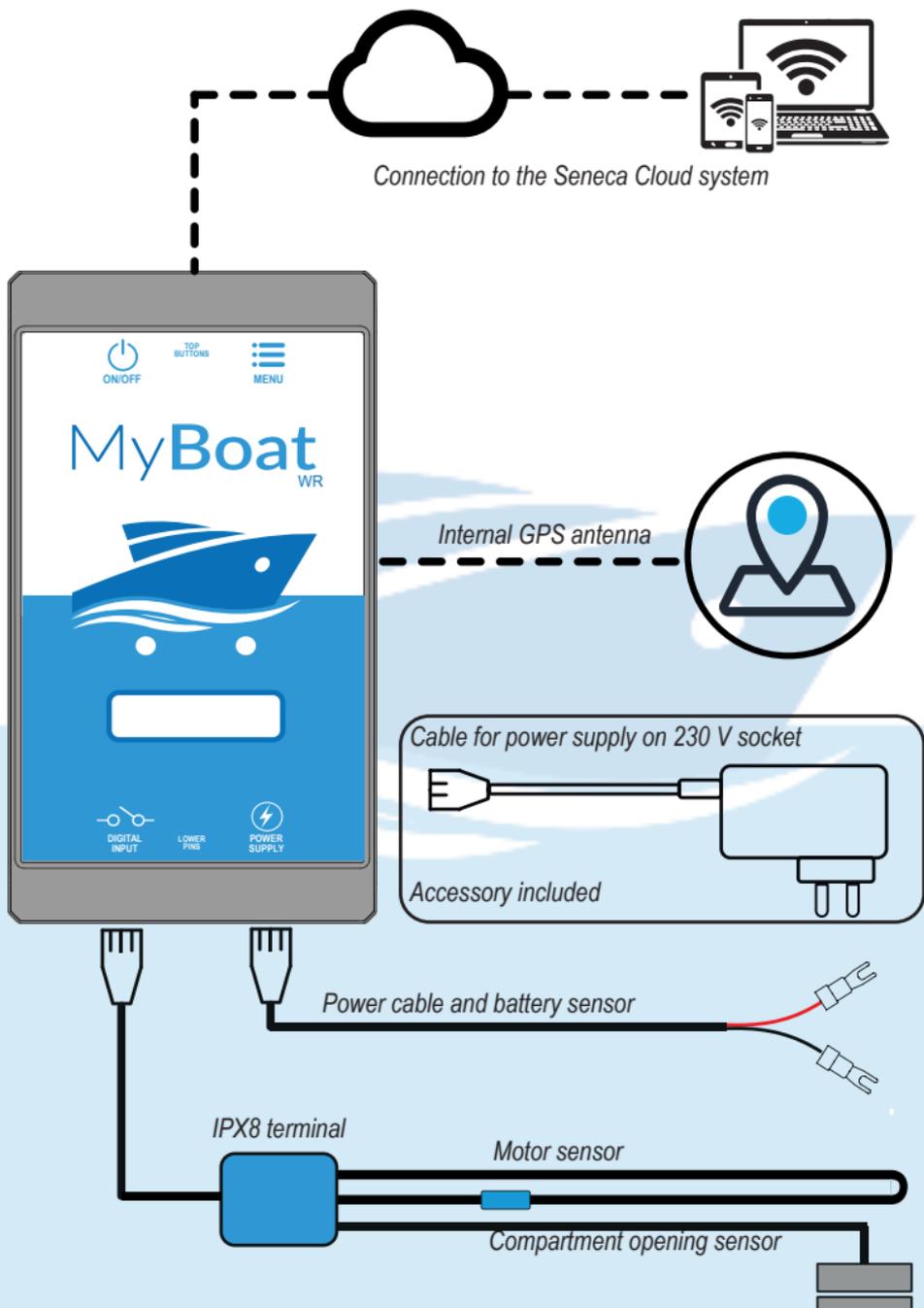
Technical characteristics:

- Display LCD 128 x 32 Dots
- Rechargeable Li-Io buffer battery, up to 8 hours' autonomy
- GSM/GPRS antenna
- Slot for mini SIM (15x25 mm)
- Internal GPS module with integrated antenna
- ON/OFF key and display scroll key
- Status LED: device power/status, GSM/GPRS status
- Slot for mini SIM card (for any firmware update) and to allow the device access to the 2G network through the best known SIM telephone providers

3 - PACKET CONTENT

- 1 - MyBoat control unit (I1)
- 2 - Battery state sensor (I2)
- 3 - Motor state and locker state sensor (I2)
- 4 - User Manual
- 5 - Power supply unit 12 V
- 6 - Power cable with fork for coupling with the battery
- 7 - Velcro to fix the control unit
- 8 - SD card for firmware updates

4 - CONTROL UNIT OPERATION



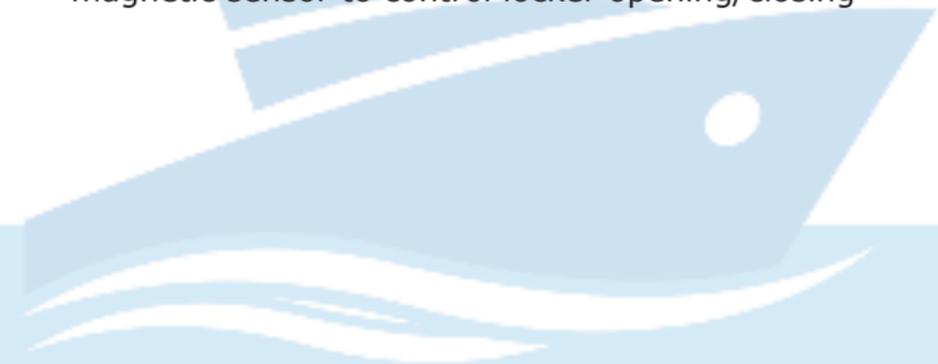
5 - MONITORING SENSOR DESCRIPTION

The sensors are devices connected to the digital inputs of the MyBoat-WR control unit.

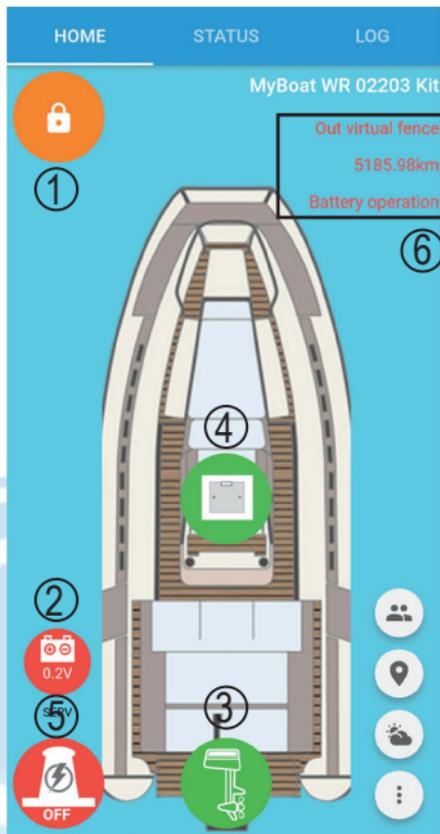
Using the MyBoat By SENECA app, you can monitor the status of the service batteries of your boat, the possible opening of the locker compartment and the presence of the engine.

All sensors integrate the anti-tamper function:

- I1) electric type sensor, to check the status of the service battery.
- I2) closed contact sensor for motor tamper control and magnetic sensor to control locker opening/closing



- ① Monitoring system status
- ② Service battery status
- ③ Motor status
- ④ Locker status
- ⑤ Quay connection status
- ⑥ Notification area

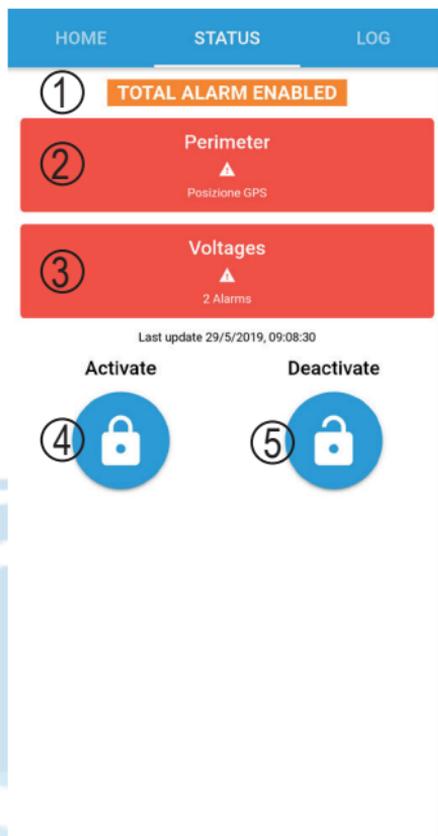


NOTIFICATION AREA

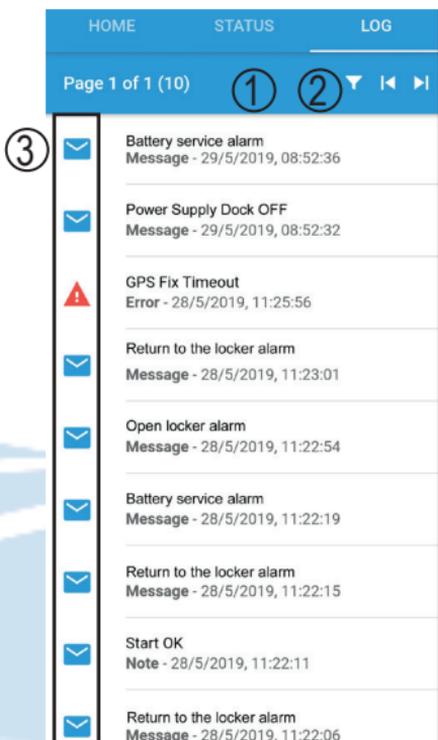
The following is displayed in the notification area (6):

- the name of the boat being monitored;
- the status of the boat in comparison with the virtual compound;
- any tampering of a sensor in addition to the Dedicated icon status change

- ① Monitoring system status
- ② Perimeter alarm status
- ③ Battery voltage status
- ④ Alarm activation button
- ⑤ Alarm deactivation button



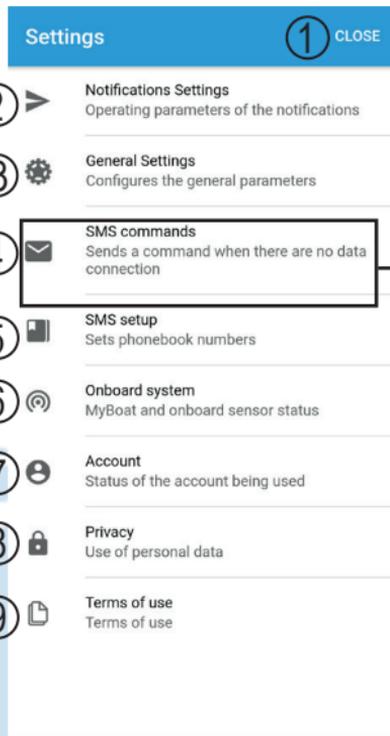
- ① Indication of No. of messages
- ② Page management
- ③ Message preview



HISTORY FUNCTION

The history function allows displaying and filing the alarm messages sent by the MyBoat system to have a constant record of the events and of the individual actions and/or commands of all the users.

- ① Close page
- ② Configuration of the notifications
- ③ General parameters
- ④ Commands for SMS notifications
- ⑤ SMS address book settings
- ⑥ Checks the on-board system status
- ⑦ Information on the account cloud
- ⑧ Privacy settings
- ⑨ Licence terms



To view these settings, activate them in the general parameters section.

To send and receive SMS to the MyBoat-*wr* control unit, it is necessary to enter the telephone number in both the "SMS setup" menu and in the "Address book" section. In the latter a second telephone number can be entered the MyBoat control unit will send notification SMS to.

SMS FUNCTIONS

N.B. Function available with telephone SIMs allowing SMS communication.

- ① Name of the boat
- ② SMS sending setup
- ③ Changes the icon dimensions
- ④ Language settings
- ⑤ Saves the modifications
- ⑥ Cancels the modifications

The screenshot shows the 'General Settings' screen of the MyBoat app. At the top right is a 'CLOSE' button. The settings are as follows:

- ① Name of the boat: MyBoat WR 02203 Kit
- ② Show SMS support: Enabled (toggle switch)
- ③ MyBoat phone number: +390123456789
- ④ Home icons size: 100%
- ⑤ Language: English

At the bottom, there are two buttons: 'SAVE' (labeled ⑤) and 'CANCEL' (labeled ⑥).

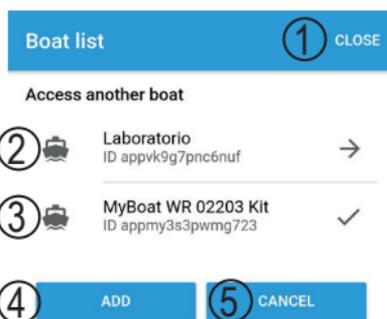
① Close the page

② Boat 1

③ Boat 2

④ Add boat

⑤ Cancel the operation



GENERAL SETTINGS

For the management of multiple boats (fleet), the general settings are saved on your smartphone locally and must be customized for a single one-off vessel.

① Close the page

② Device information

Onboard system ① CLOSE

MyBoat device

② MyBoat WR 02203 Kit

MyBoat WR

IMEI of the MyBoat device:
868926034402203

Ver. 01.00.02.10
MAX.MIN.FIX.BUILD

MyBoat device Online
Uptime 8 ore

Last device update
29/5/2019, 10:11:33

GSM signal Ottima

Battery operation

Cloud e App

Cloud service status Connected

APP reconnections 13

- ① Cloud service information
- ② Cloud service maintenance

The screenshot displays the 'Onboard system' menu in the MyBoat app. The menu is titled 'Onboard system' with a 'CLOSE' button in the top right corner. It lists several system metrics: a phone icon with the number 868926034402203; a document icon with 'Ver. 01.00.02.10' and 'MAX.MIN.FIX.BUILD'; a globe icon with 'MyBoat device Online' and 'Uptime 8 ore'; a clock icon with 'Last device update' and '29/5/2019, 10:11:33'; a signal icon with 'GSM signal Ottima'; and a battery icon with 'Battery operation'. Below this is the 'Cloud e App' section, which includes a list of items: a link icon with 'Cloud service status Connected', a cloud icon with 'APP reconnections 13', and a document icon with 'APP Cloud packets 1000, Bandwidth 67.7 kB'. A blue 'MAINTENANCE' button is located at the bottom of the 'Cloud e App' section. A red box highlights the first three items in the 'Cloud e App' list, with a circled '1' next to it. A circled '2' is placed next to the 'MAINTENANCE' button.

Onboard system CLOSE

868926034402203

Ver. 01.00.02.10
MAX.MIN.FIX.BUILD

MyBoat device Online
Uptime 8 ore

Last device update
29/5/2019, 10:11:33

GSM signal Ottima

Battery operation

Cloud e App

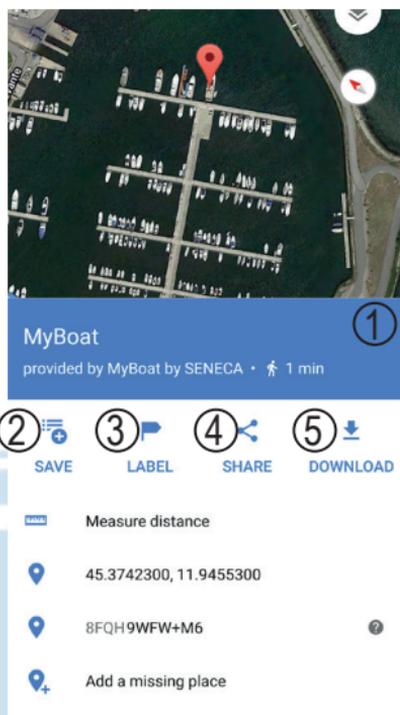
① Cloud service status Connected

APP reconnections 13

APP Cloud packets 1000, Bandwidth 67.7 kB

② **MAINTENANCE**

- ① Localization screen
- ② Saves position
- ③ Road directions
- ④ Share position
- ⑤ Download position



SHARE POSITION

The "share position" function allows sending the position of the boat viewed.

First startup procedure:

1. Insert the mini SIM card into the switched-off MyBoat-WR control unit (*);
2. Check that the SDcard is correctly inserted (see image 2);
3. Power the control unit connecting the power supply to the Power Supply socket or alternatively use the cable with the forks.

To confirm the first startup procedure is correct, the Yellow GSM LED will start flashing 3 times a second.

Switching on and menu keys:

MyBoat-WR is fitted with an ON/OFF PWR key positioned in the LH top corner (Figure 3).

To switch it off, keep the PWR key pressed for a few seconds.

The device is fitted with a MENU key, in the RH top

corner. Pressing this key displays the parameters.

N.B.:

For optimum reception of the GPS signal given by satellites, it is better to place the MyBoat-WR horizontally on a surface.

FW update procedure:

The update of the control unit firmware is possible via the micro SD card supplied. Follow the procedure below:

1. Copy the file FW.BIN in the main folder of the micro SD card;
2. Insert the micro SD card into the MyBoat _WR control unit;
3. Power the control unit via the supplied 12 V power supply
4. Wait for the message confirming the detection of the new firmware;
5. Press "OK" and wait for installation to complete with the unit restarting.

N.B. In order to guarantee the MyBoat_WR control unit works correctly, THE CONTENT OF THE SD CARD MUST NOT BE REMOVED.

(*). Ensure you have removed the locking PIN when you switched on using the other device (e.g. a smartphone).

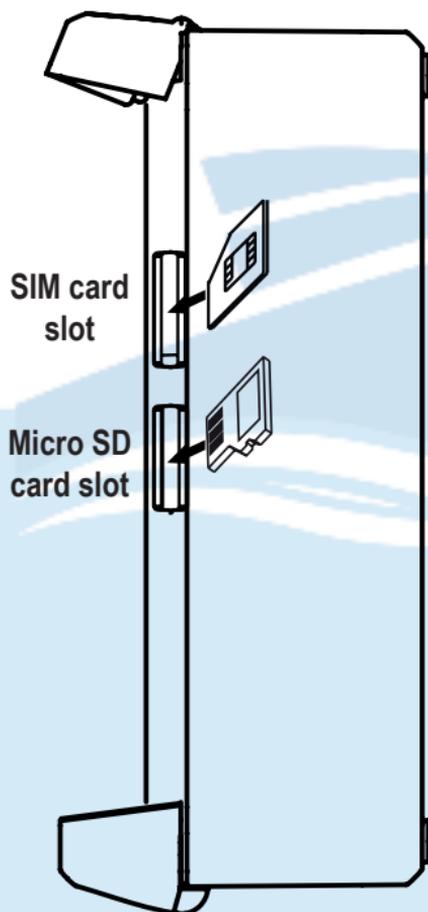


Figure 2

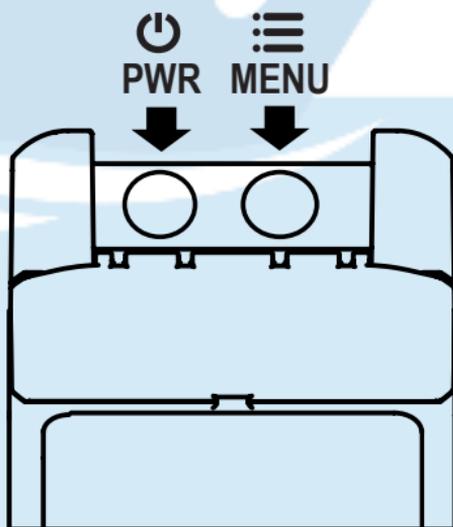
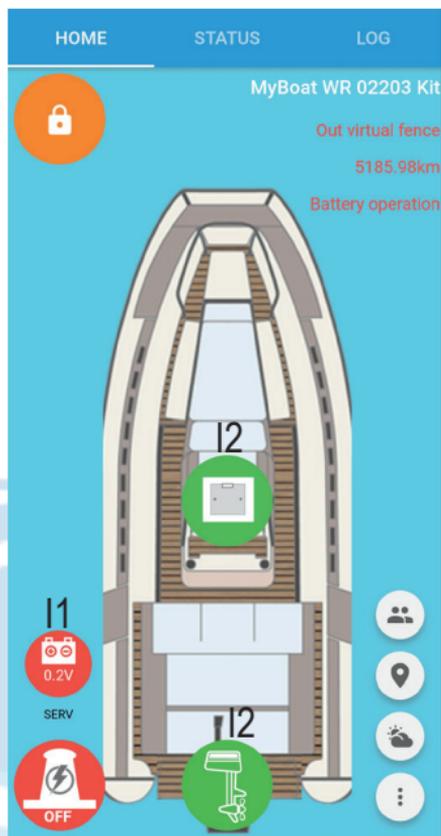


Figure 3

I1 Useful for checking the status of the service battery and possible connection to the power supply via the quay. Monitoring the status of the service battery takes place via the MyBoat control unit and its power supply connector.

I2 Useful for controlling the locker opening and checking the engine status.



ICON COLOUR KEY

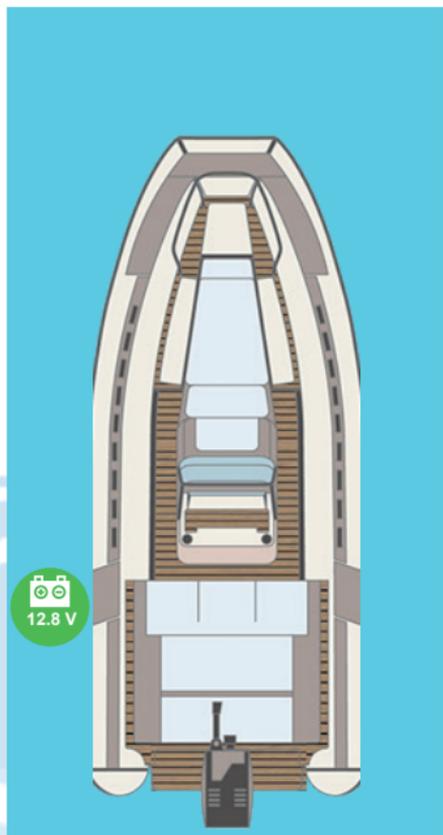


N.B.:

The signals relating to the status changes of all the sensors take place in real time (e.g.: opening/closing of the locker). The measurements of electrical voltage values are updated every 15 minutes.

9 - SENSOR INSTALLATION

1. Connect the cable with the 8mm forks to the battery terminals, paying attention to polarity as shown in the side figure.
2. Connect the cable to the control unit, taking care to insert it into the dedicated socket identifiable by the "POWER SUPPLY" label;
3. Check the power supply on the display of the control unit.



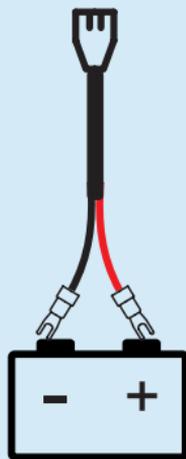
SENSOR OK



SENSOR DISABLED

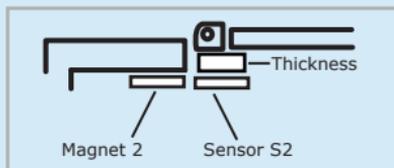
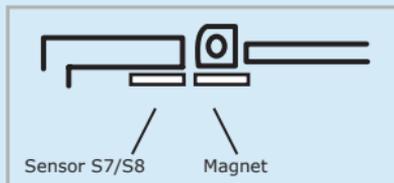
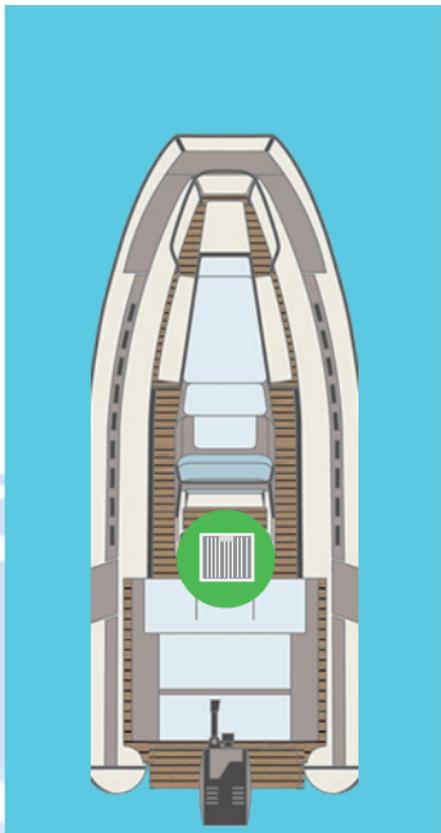


SENSOR IN ALARM



9 - SENSOR INSTALLATION

1. Identify the installation point of both the sensor (e.g. locker frame) and the magnet (e.g. locker flap) and clean the two areas identified;
2. To guarantee it works properly, leave a maximum distance of 10 mm between the two elements when installing.



Installation detail



SENSOR OK



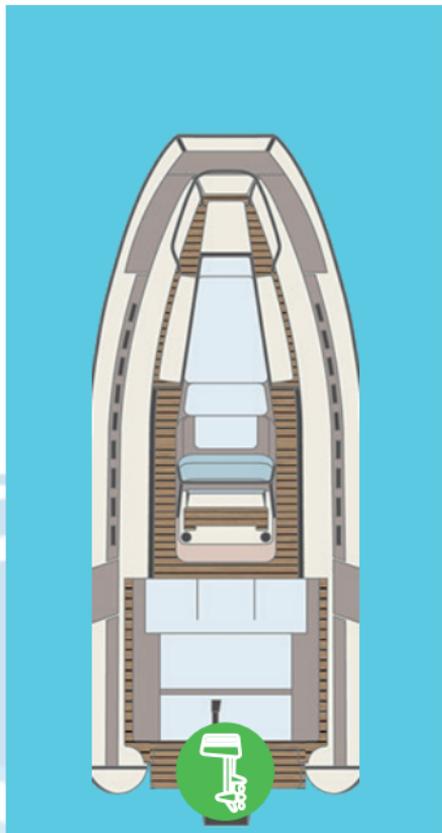
SENSOR DISABLED



SENSOR IN ALARM

9 - SENSOR INSTALLATION

1. Uncouple the cable from the connection terminal at the base of the sensor;
2. Position the cable so that it is secured to the engine of your boat;
3. Recouple the cable to the connection terminal;
4. In the event of a cable interruption (due to tearing, cutting or interruption) you will have a real time notification via push notifications or SMS on your smart-phone.



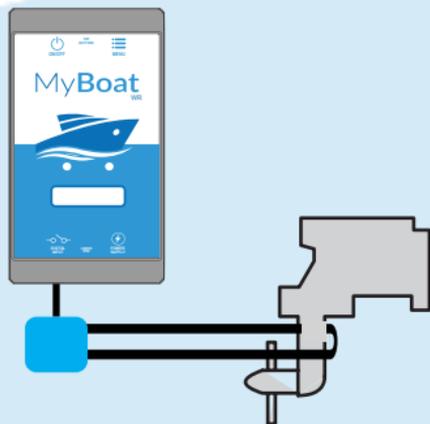
SENSOR OK



SENSOR DISABLED



SENSOR IN ALARM



10 - CLOUD SERVICE ACTIVATION

To use the MyBoat monitoring system, it is necessary to register a SENECA Cloud account and activate the dedicated service.

TheMyBoat_{WR} KIT includes a usage fee for **24 months** from first activation.

For further information and renewal costs go to:

www.seneca.it/myboat_wr

The activation procedure is available via both HTML5 WEB browser and MyBoat™ mobile app.

Activation from WEB browser

1. Start the control unit as per first startup procedure (see page 24);
2. Connect to <https://cloud.seneca.it> to register your SENECA Cloud account (if not already done for other services);
3. After logging in, select the "Cloud services" button and the "ADD" key in the top RH corner;
4. Enter the "Activation code" of 5+10 characters found on the back cover of this manual and select the "ADD" key again (**);
5. From this moment the service is active and it is possible to access the status of the MyBoat system from both the web and the MyBoat mobile app.

To display the boat status via the web browser:

- 1 - access the SENECA Cloud at
<https://cloud.seneca.it>
- 2 - select "Cloud Services"
- 3 - select "OPEN"

The same functions as the mobile app will be available.

Activation via MyBoat app

1. Start the control unit as per first startup procedure (see page 24)
2. Install the **MyBoat by Seneca** app available in the iOS and Android stores, using the following QR codes or searching for MyBoat by SENECA:



3. Register and log in;
4. Enter the "Activation code" of 5+10 characters found on the back cover of this manual (**);
5. From this moment the service is active and it is possible to access the status of the MyBoat system from both the web and the MyBoat mobile app.

To display the status of the boat via the mobile app: start the app and log in with your Cloud credentials.

(*) Ensure you have removed the locking PIN when you switched on using the other device/ smartphone.

(**) the operation requires less than 1 minute during which the device is synchronized with the Cloud platform.

Creating new users:

Creating new users for MyBoat service is an operation that can only be performed via web browser. It is possible to define multi-level users with different qualifications depending on the type of user owner (ADMIN), maintainer (EDITOR), guest (USER):

- ADMIN: displays information, sends commands, modifies settings
- EDITOR: displays information, sends commands
- USER: displays information
- NONE: none

Instructions to add new users to the MyBoat service:

- Access your Cloud account via the <https://cloud.sene-ca.it> WEB browser
- Select "Users"
- Select "ADD"
- Set the user information and select SAVE to create the user

After creating the user:

- Select the "MANAGEMENT" key (regarding the user)
- Select the ADVANCED menu
- Select "Activate User Manually" (If you do not want confirmation from the new user)
- Select the ADVANCED menu again
- Select "Manage Authorizations"
- It will be sufficient to assign the type of role for each MyBoat Service to the new user by selecting the relevant key.

To add more users, repeat the operation.

Fleet management

Through the console via browser or via APP you can manage multiple MyBoat services associated with a cloud account (multiple boats).

1. After logging in at <https://cloud.seneca.it>, select the "Cloud Services" key and select the "ADD" button in the top right hand corner;
2. Enter the "Activation code" of 5+10 characters found in the manual of the KIT you wish to enter as an additional boat and select the "ADD" key again (**);
3. From this moment the service is active and it is possible to access the status of the MyBoat system from both the web and the MyBoat mobile app.

Factory data reset:

To reset the MyBoat monitoring system to the factory settings, follow the instructions below:

- Access your Cloud account via the <https://cloud.seneca.it> WEB browser
- Select "Cloud Services"
- Select the "MANAGEMENT" key for the Service you want to reset
- Select the "Remove service" name from the "ADVANCED" menu
- **Proceeding with the removal of the service, all the settings/information related to it will be irreversibly reset.** The Service will no longer be associated with the account and the activation code can be used again on a new ADMINISTRATOR cloud account.

Now the MyBoat service is reset to factory data.

11 - TROUBLESHOOTING

CONTROL UNIT OPERATION PHASES:

PHASE 1

CONTROL UNIT
STARTUP

PHASE 2

GSM
NETWORK
SEARCH

PHASE 3

CONNECTION
TO THE GSM
NETWORK

PHASE 4

CONNECTION
TO THE GPRS/
CLOUD
NETWORK

Once connected to the cloud service, switch off the unit by holding down the PWR button for a few seconds until the display turns off. Switch the control unit back on as per the initial procedure.

STATUS LED INFORMATION

STATUS	NOTIFICATIONS	MEANING	DURATION
GSM NETWORK SEARCH (PHASE 2)	Yellow GSM LED flashing quickly and no GSM signal indication on the display	The control unit is connecting to the GSM network	Some seconds
CONNECTION TO THE GSM NETWORK (PHASE 3)	Yellow GSM LED flashing slowly. GSM signal indication on the display	The control unit is correctly connected to the GSM network	Some seconds
CONNECTION TO THE GPRS/CLOUD NETWORK (PHASE 4)	Yellow GSM LED flashing quickly and GSM signal indication on the display	The control unit is correctly connected to the GPRS network and to the Seneca cloud	Active until the control unit is switched off

CONTROL UNIT STATUS	PROBLEM CAUSE	SOLUTION
The control unit in the "GSM SEARCH" phase	No GSM signal	Move the control unit, wait at least 1 minute and check that the number of GSM signal notches on the display exceeds 1.
	SIM card not recognized or not activated	Contact the SIM supply service
	SIM card with PIN enabled	Insert the SIM into a phone and disable the PIN.
The control unit remains in the GSM NETWORK CONNECTION phase"	SIM with data service not yet active	The SIM card is active and the GSM signal is sufficient (appearance of the GSM signal notches on the display) but does not allow internet access.
	SD card not inserted or not recognized.	The control unit cannot recover the data of the telephone operators from the SD card. Turn off the control unit and insert the SD card correctly.
	SIM active but of an unknown telephone operator	Download the updated "APN.bin" file from the Seneca website and replace the one on the SD card. Contact Seneca technical support.
	SIM does not support 2G data traffic (GPRS)	Contact the SIM supply service



CONTACTS AND INFORMATION

Addresses

Via Austria 26 - 35127 Padova (I)
Tel. +39 049 8705 359 (408)
Fax +39 049 8706287

Web

Website: www.seneca.it/myboat-wr

Support: www.seneca.it/supporto-e-assistenza/

Email:

General information: info@seneca.it

Sales department: commerciale@seneca.it

Product technical support: support@seneca.it

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