MyBoat

Preconfigured, no wiring required, plug&play!

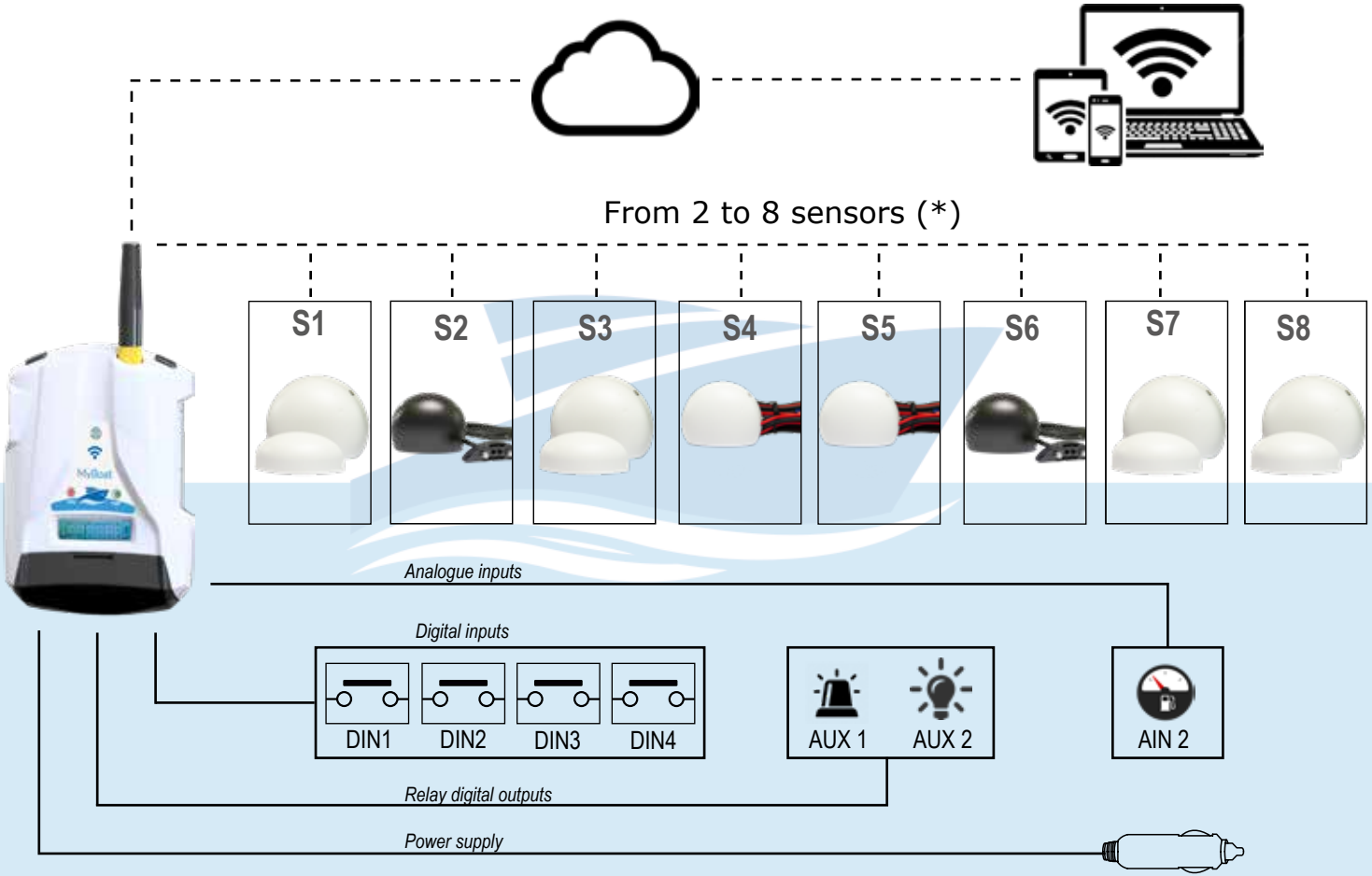
User Manual

ACTIVATION CODE

MyBoat

TABLE OF CONTENTS

1 - MyBoat control unit
2 - Sensors (the image refers to a kit with 8 sensors)
3 - User Manual
4 - SIM card (optional, see leaflet)
5 - Power cable with cigarette lighter plug
6 - Batteries for each sensor (included and already installed)
7 - Control unit fixing support
8 - Self-tapping screws for wall fixing (x2)



(*) According to the KIT purchased, check the information on the side of the pack

MyBoat is a flexible control system consisting of a smart control unit and wireless monitoring sensors for the remote control and alarm management in real time of yachts, boats in general and fleet. 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 service for the first two years from product activation. For information and renewal costs of the service, go to www.seneca.it/MyBoat.

MyBoat is a service offering many functions useful to monitor your boat through immediate consultation and the practical use of both browser and mobile app. Using the MyBoat 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).
As well as managing the communication with the sensors and the SENECA cloud platform, the control unit is set for the advanced configuration and optional remote control of 4 digital inputs, 1 timed relay output (e.g. siren), 1 non-timed relay output (auxiliary), 1 analogue input for service battery sensor (already wired to the control unit power supply) and 1 fuel level analogue input. For details on the advanced configuration, refer to chapter 5.

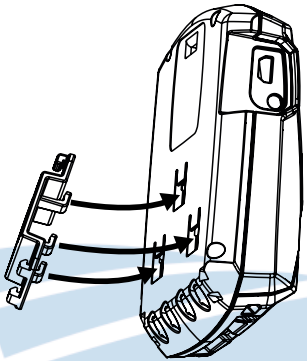
SENECA makes available various types of kits consisting of various sensors to monitor: the boat access points, the state of the engine compartment, the state of the service, engine and general batteries, the current position of the boat, the water level in the bilges and the temperature both in the cabin and in the bilge.

	GPS	BATT SERVICES	DOCK	CABIN	BILGE1	TEMP CABIN	TEMP ENGINES	BATT ENGINES	ENGINES	BATT GENERAT.	BILGE2	OPEN HATCH 1	OPEN HATCH 2
MyBoat 7-2	⚓	⚓	⚓	⚓	⚓	⚓	⚓						
MyBoat 9-4	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓				
MyBoat 11-6	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓		
MyBoat 13-8	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓	⚓

The images and diagrams shown must be considered as indicative and not binding.

MyBoat control unit

MyBoat control unit



Assembly detail onto DIN rail for wall fitting. For correct installation, follow instructions on page 06.

Power supply for cigarette lighter plug

The MyBoat control unit is a product derived from SENECA MyAlarm3. Remote alarm, telemetry and datalogging industrial unit.

Technical characteristics:

- Display LCD 128 x 32 Dots
- Rechargeable Li-Io buffer battery, up to 8 hours' autonomy
- Replaceable GSM/GPRS/GPS antenna on SMA connector
- Slot for mini SIM (15 x 25 mm)
- GPS internal module with built-in antenna (external A-GPS antenna available as an option)
- ON/OFF key and display scroll key
- Status LED: device power/status, GSM/GPRS status
- Slot for micro SD card (for any firmware update and device configuration to access the 2G network through a SIM supplied by the best known providers)
- USB micro port (reserved)

Advanced technical characteristics:

- 4 digital inputs to control electrical devices
- 1 analogue input for supply voltage reading
- 1 analogue input for fuel check
- 1 timed relay digital output (e.g. siren or bilge pump)
- 1 non-timed relay output

Type S sensors:

Front view of a magnetic sensor

Back view with ID label

Front view of a level sensor

The sensors are wireless radio devices with IP20 case that communicate with the MyBoat control unit using 868 Mhz radio frequency. They are fitted with 3V CR2 batteries guaranteeing their operation for about 1 year (*). With the MyBoat app, you can monitor the state of the batteries of the individual sensors, to foresee their replacement.

The sensors integrate the anti-tampering function and can be 3 types:

- magnetic for access control
- level for bilge control
- with “faston” connectors and fuse to control the battery voltage.

Engine battery status and charge and generator battery detector

(*) Estimated life under normal operating conditions

Bilge water level detector

Access control sensor magnet

Access control sensor type 2 magnet

Main screen

S1 Boat access control

S2 Bilge 1 control

S3 Engine access control

S4 Engine battery control

S5 Generator battery control

S6 Bilge 2 control

S7 Hatch 1 control

S8 Hatch 2 control

N.B.:
The warning about cabin access or engine compartment opening is always in real time.
Temperature detection takes place every 15 minutes. In case of variation in status, the alarm is given in real time.
Battery voltage detection takes place every 15 minutes. In case of variation in status, the alarm is given in real time.
The bilge water level sensor signals the alarm in real time. If there is no water in the bilge, the alarm is deactivated after 15 minutes.
If a sensor does not communicate with the control unit for over 100 minutes, all the alarms of the involved sensor will be activated.

ICON COLOUR KEY

ENABLED DISABLED ALARM

C1

Monitoring the status of the service battery takes place via the MyBoat control unit and its power supply connector. With this it is possible to detect the status and voltage of the service battery it is connected to.

N.B.:
For optimum reception of the GPS signal given by satellites, it is better to place the MyBoat horizontally on a surface in an area not covered by metal structures. If this is not possible, an optional external antenna with 3m cable (code A-GPS) is available.

First startup procedure:

1. Insert the mini SIM card into the switched-off MyBoat control unit (*);
2. Insert the SD card (see figure 2);
3. Connect the GSM/GPRS antenna (**);
4. Connect the power supply to the terminal block following the instructions on page 29;
5. Insert the cigarette lighter plug to switch the MyBoat control unit on.

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

Switching on and scroll keys:

MyBoat 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 SCR key, in the RH top corner. Pressing this key displays the parameters.

FW update procedure:

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

1. Copy the file FW.BIN in the main folder of the micro SD card;
2. Switch the control unit on (***).
3. Insert the micro SD card into the MyBoat control unit;
4. Wait for the message confirming the update of the firmware;
5. Press "OK" and wait for installation to complete with the unit restarting;
6. The control unit writes the new firmware on the flash memory during this phase.

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

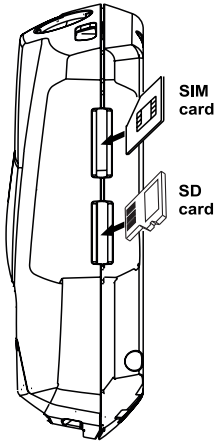


Figure 2

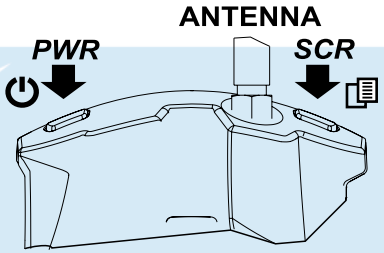


Figure 3

(*) Ensure you have removed the locking PIN during the switch-on phase using another device, and at the same time check data connection is working properly.
(**) Connect any A-GPS optional antenna following the procedure supplied with the antenna.
(***) Ensure the control unit is powered via the cigarette lighter cable supplied.

Figure 1

All sensors are factory-set and supplied with a battery.
To replace the batteries in the sensors, follow the following instructions:

- With a cross head screwdriver, remove the two fastening screws from the dome as shown in Figure 1;
- Open the dome paying attention to the orientation as in Figure 2;
- Insert the battery supplied with the positive pole as shown in Figures 3 and 4;
- Close the sensor dome again and fasten the screws.

Figure 2

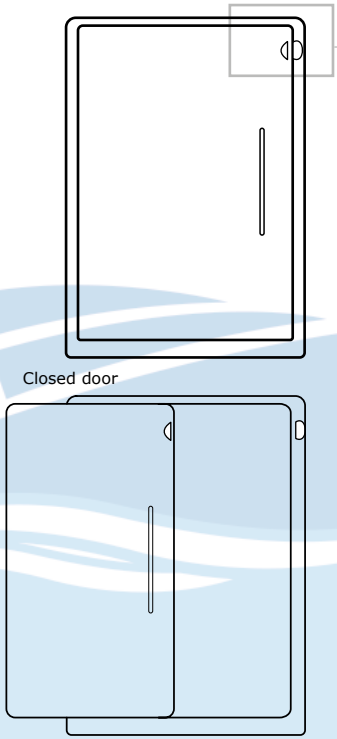
Figure 3

Figure 4

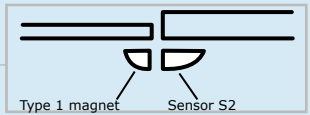
S1 Boat access control

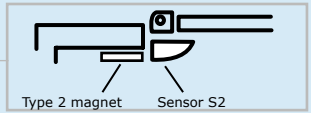
alarm disabled

alarm enabled



1. Remove the protection tab to power the sensor;
2. Identify the installation point of both the sensor (e.g. door frame, lintel) and the magnet (assess whether to use a type 1 or type 2 magnet, according to requirements) and clean the 2 areas identified;
3. Apply the round velcro patch onto the magnet;
4. Check it is positioned correctly and, to guarantee it works properly, leave a maximum distance of 10 mm between the two elements;
5. Remove the velcro protection film from both the sensor and the magnet, apply in the two areas identified, pressing lightly for a few seconds.





N.B. If it is not possible to position the magnet and sensor on axis, use the type 2 magnet as shown in the figure.

S2 and S6 Bilge 1 and 2 control

alarm disabled

alarm enabled

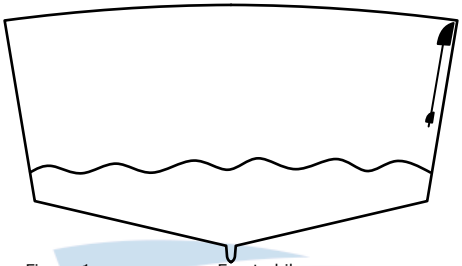


Figure 1 Empty bilge

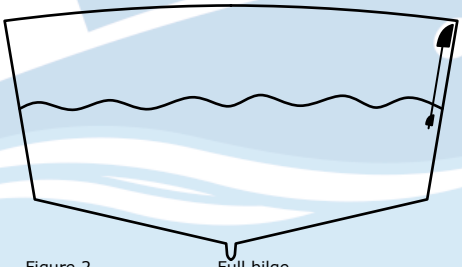
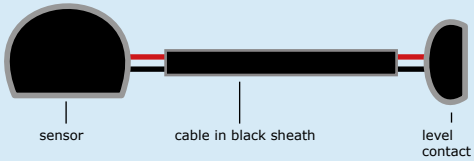


Figure 2 Full bilge



cable supplied

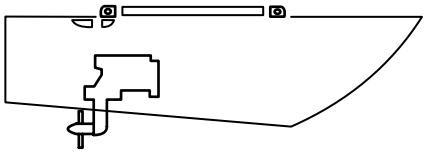
1. Remove the protection tab to power the sensor;
2. Identify the installation points of the sensor and level contact, pulling the cable supplied (as in Figure 1) and clean the two areas identified;
3. Remove the velcro protection film from both the sensor and the contact and apply in the two areas identified, pressing lightly for a few seconds.

N.B.: Ensure that, once applied, the level contact does NOT touch the water in the bilge;

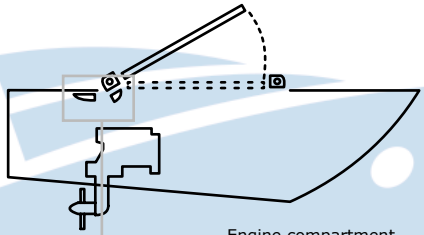
S3 Engine access control

alarm disabled

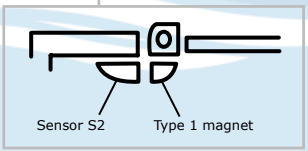
alarm enabled

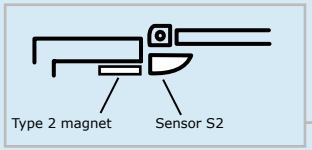


Engine compartment closed



Engine compartment open





Installation detail

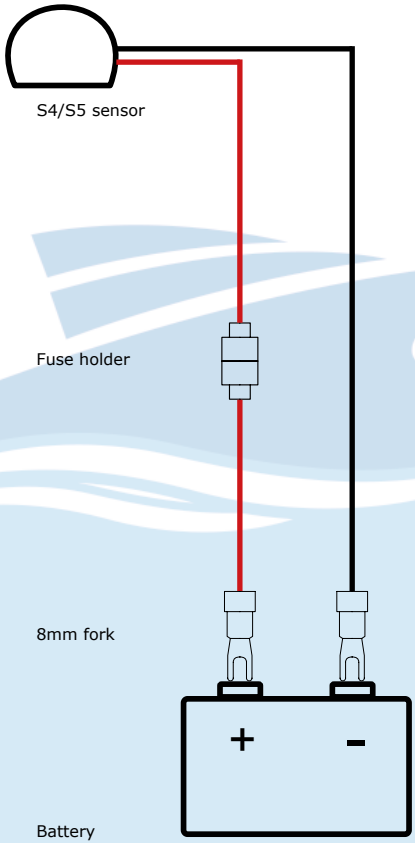
1. Remove the protection tab to power the sensor;
2. Identify the installation point of both the sensor (e.g. door frame, lintel) and the magnet (assess whether to use a type 1 or type 2 magnet, according to requirements) and clean the 2 areas identified;
3. Apply the round velcro patch onto the magnet;
4. Check it is positioned correctly and, to guarantee it works properly, leave a maximum distance of 10 mm between the two elements;
5. Remove the velcro protection film from both the sensor and the magnet, apply in the two areas identified, pressing lightly for a few seconds.

N.B. If it is not possible to position the magnet and sensor on axis, use the type 2 magnet as shown in the figure.

S4 and S5 Engine and service battery control

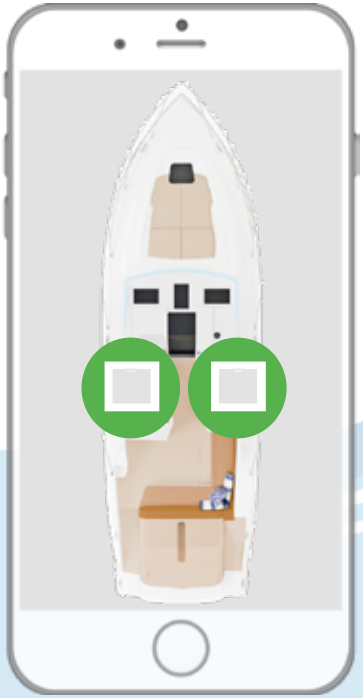
alarm disabled

alarm enabled



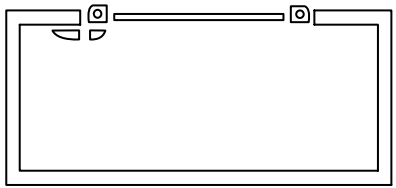
1. Remove the protection tab to power the sensor;
2. Identify the installation point of the sensor according to the length of the cable to connect to the battery and clean the area identified;
3. Remove the velcro protection film from the sensor. Apply to the area identified pressing lightly for a few seconds;
4. Connect the cable with the 8mm forks to the battery terminals, paying attention to polarity as shown in the side figure.

S7 and S8 Hatch 1 and 2 control

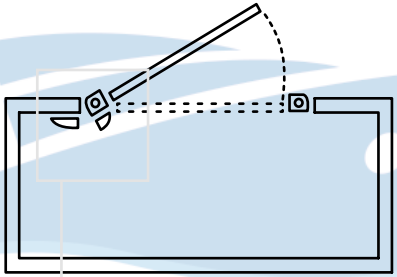


alarm disabled

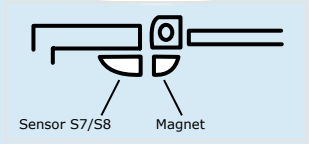
alarm enabled

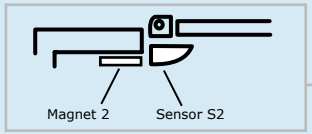


Closed hatch



Open hatch





Installation detail

1. Remove the protection tab to power the sensor;
2. Identify the installation point of both the sensor (e.g. door frame, lintel) and the magnet (assess whether to use a type 1 or type 2 magnet, according to requirements) and clean the 2 areas identified;
3. Apply the round velcro patch onto the magnet;
4. Check it is positioned correctly and, to guarantee it works properly, leave a maximum distance of 10 mm between the two elements;
5. Remove the velcro protection film from both the sensor and the magnet, apply in the two areas identified, pressing lightly for a few seconds.

If it is not possible to position the magnet and sensor on axis, use the type 2 magnet as shown in the figure.

To use the MyBoat monitoring system you need to create a SENECA Cloud account and activate the MyBoat service.
The MyBoat KIT includes the cost of the usage fee for a period of **24 months** from the date of first activation.
For more information and renewal costs visit the site:
www.seneca.it/en/myboat

The activation procedure is available from both the HTML5 web browser and the MyBoat mobile app.

Activation by WEB browser

- Insert the SIM (*) and turn on the MyBoat control unit;
- Go to **https://cloud.seneca.it** to register your SENECA Cloud account (if not previously registered for other services);
- After activating your account and logging in, select the "Cloud Services" button and click on the "ADD" button at the top right;
- Enter the "Activation Code" of 5+10 characters available on the back cover of this manual (**) and select the "ADD" button again;
- The service is now active and it is possible to access the status of the MyBoat system from both the web browser and the MyBoat mobile app.

To view the status of the boat from a web browser:

- access the SENECA Cloud at **https://cloud.seneca.it**
- select "Cloud Services".
- select "OPEN" close to the created service

The same functions as the mobile app are available.

Activation by MyBoat mobile App

- Insert the SIM (*) and turn on the MyBoat control unit
- Install the MyBoat app available in the iOS and Android stores using the following QR codes:

Available on the App Store

GET IT ON Google Play

- Register and log in for the first time;
- Once you have logged in the MYBoat app will ask for the activation code
- Enter the "activation code" of 5+10 characters available on the back cover of this manual (**);
- Now the service is active and it is possible to access the status of the MyBoat system both from a web browser and from a mobile app.

To view the status of the boat from the mobile app: launch the app and log in with your Cloud credentials. The credentials will be saved for later logins.

Add more users to the service

Adding new users to the MyBoat service is a task that can only be performed by a web browser. It is possible to define multi-level users with different authorizations depending on the type of user (owner, maintainer, guest):

- ADMIN: displays information, sends commands, changes

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

How to:
- Accessing your Cloud account from a web browser **https://cloud.seneca.it**
- Select "Users".
- Select "ADD"
- Set the user information and select SAVE to create the user

After creating the credentials you can wait for the user to confirm his data or:
- Select the "MANAGEMENT" button (user related)
- Select the ADVANCED menu
- Select "Activate User manually"
- Select the ADVANCED menu again
- Select "Manage Permissions".
- It will be sufficient to assign to the new user the role type for each Service by selecting the relevant button.

To add more users repeat the operation.

Fleet management

Through the Cloud platform console you can manage multiple MyBoat services associated with one cloud account (one account for kind of boats).

1. After logging in **https://cloud.seneca.it**, select the "Cloud Services" button and select the "ADD" button at the top right;
2. Enter the "Activation code" of 5+10 characters on the back cover of the manual associated with the KIT you want to add (**) and select the "ADD" button again;
3. From now on the service is active and it is possible to access the status of the MyBoat system both from the web browser and from the MyBoat mobile app of the same name.

Restore to factory defaults:

To return your MyBoat monitoring system to factory settings, follow these instructions:
- Access your cloud account **https://cloud.seneca.it** via your web browser
- Select "Cloud Services"
- Select the "MANAGEMENT" button for the Service you wish to reset.
- Select from the "ADVANCED" menu the item Remove Service "servicename".
- Proceeding with the removal of the service, all settings / information related to it will be reset **irreversibly**. The Service will no longer be associated with the account and the activation code can be used again on another cloud account.

The MyBoat service is now back to factory default.

(*) nel caso in cui si utilizzi una SIM differente da quella fornita nel KIT, assicurarsi di aver rimosso il PIN di blocco nella fase di accensione tramite altro dispositivo.

(**) l'operazione richiede meno di 1 minuto durante il quale avviene la sincronizzazione del dispositivo con la piattaforma Cloud.

STATUS	REPORTS	MEANING	DURATION
GSM SEARCH	GSM LED Yellow flashing Fast and no GSM signal indication on the display	The control unit is searching to the GSM network	A few seconds
CONNECTED TO GSM	GSM LED Yellow slow flashing. Appearance of notches with GSM signal on the display	The control unit is correctly connected to the GSM network	A few seconds
CONNECTED TO CLOUD	GSM LED Yellow flashing Fast and presence of GSM signal notches on display	The control unit is correctly connected to the GPRS network and the Seneca cloud	Until the control unit is turned off

CONTROL UNIT STATUS	PROBLEM CAUSE	SOLUTION
The control unit is in the "GSM SEARCH" state	GSM signal failure	Move the control unit, wait at least 1 minute and check that the number of GSM signal notches on the display becomes greater than 1. Contact Seneca technical support for the purchase of an external antenna
	SIM card not recognized or not activated	SIM card not recognized or not activated
	SIM card with PIN enabled	Insert the SIM in a phone and disable the PIN.
The control unit is stopped in the "CONNECTED TO GSM" state	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. Contact the SIM supply service. Some operators need up to 24 hours from the activation of the SIM to make the data service operational.
	SD card not inserted or not recognized.	The control unit cannot recover the telephone operators data from the SD card. Turn off the control unit and insert the SD card correctly.
	SIM active but 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.
	Insufficient signal (only 1 notch on the display)	Contact Seneca technical support for the purchase of an external antenna
	SIM does not support 2G (GPRS) data traffic	Contact the SIM supply service

① Siren activation

② Service battery

③ Engine battery

④ Generator battery

⑤ Dock voltage

⑥ Bilge flooding

⑦ Bilge flooding

⑧ Hatch 1

⑨ Hatch 2

⑩ Cabin temperature

⑪ Cabin door

⑫ Engine door

⑬ Engine temperature

⑭ Notification area

⑮ Access another boat

⑯ Localization

⑰ Weather report of the boat position

⑱ Settings

NOTIFICATION AREA

The following is displayed in the notification area (14):

- the name of the boat being monitored;
- the status of the boat in comparison with the virtual compound;
- any tampering of a sensor.

① Alarm status

② Perimeter alarm

③ Flooding alarm

④ Temperature alarm

⑤ Battery voltage alarm

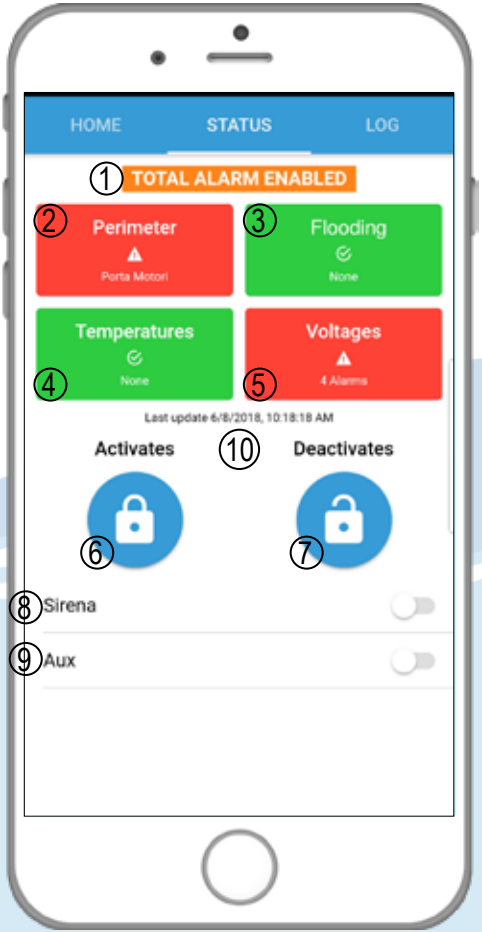
⑥ Alarm activation

⑦ Alarm deactivation

⑧ Shifts AUX1 for 1 min.

⑨ Shifts AUX2

⑩ Area for the display of optional advanced functions



ADVANCED FUNCTIONS

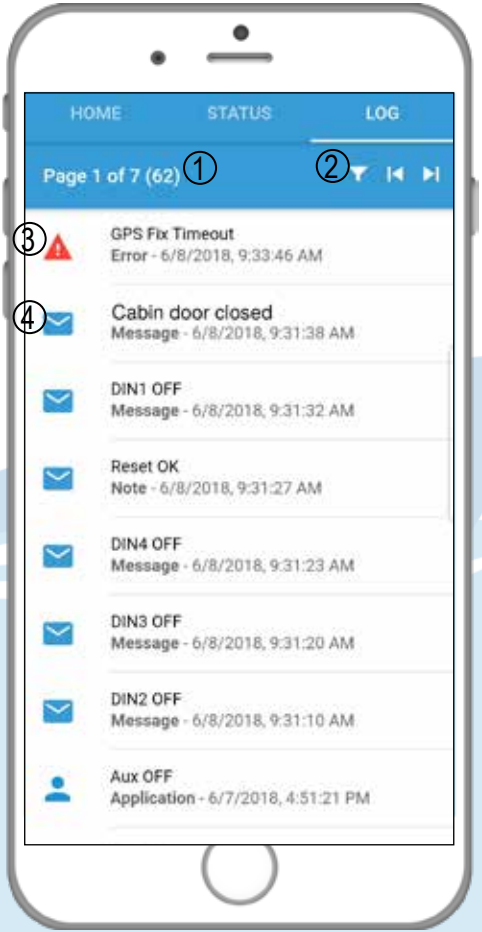
The MyBoat control unit is configured for optional advanced functions (see page 29). In this area, deactivated by default but activated through settings, it is possible to check the status of 4 digital inputs as well as the fuel level.

① Indication of No. of messages

② Page management

③ Message preview

④ Error code



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 of the individual actions and/or commands of all the users.

① Close the application

② Notification configuration

③ General parameters

④ Commands for SMS notification

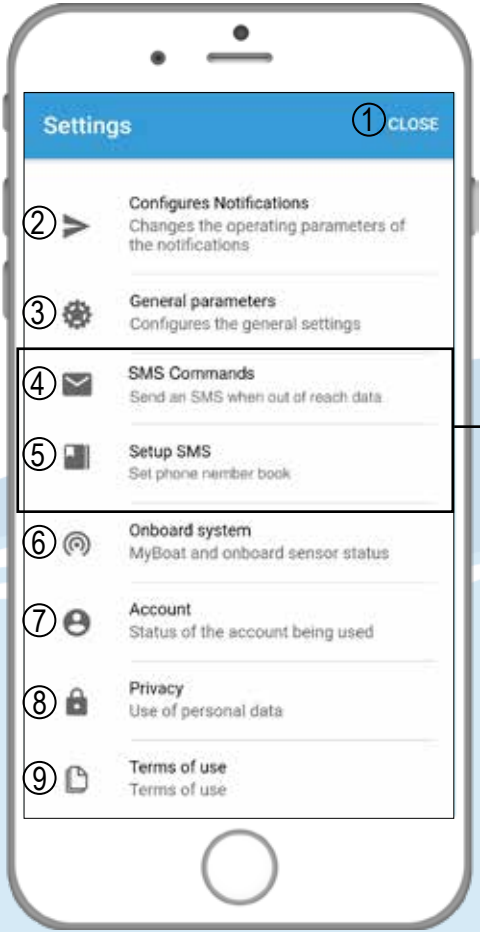
⑤ Phonebook for SMS setup

⑥ Cloud account and MyBoat service setting

⑦ Account status

⑧ Privacy settings

⑨ Terms of use



To check the settings, activate them in the general parameters section.
To send and receive SMS to the MyBoat control unit, save your telephone number in the "SMS setup" menu and in the "Phone-book" section. It's possible to save a second telephone number to which the MyBoat control unit sends notification SMS.

SMS FUNCTIONS

N.B. These functions are available with a SIM card that still supports communication via SMS rather than the VSIM card supplied with the KIT.

① Name of the boat

② Alarm AUX1 setting

③ Alarm AUX2 setting

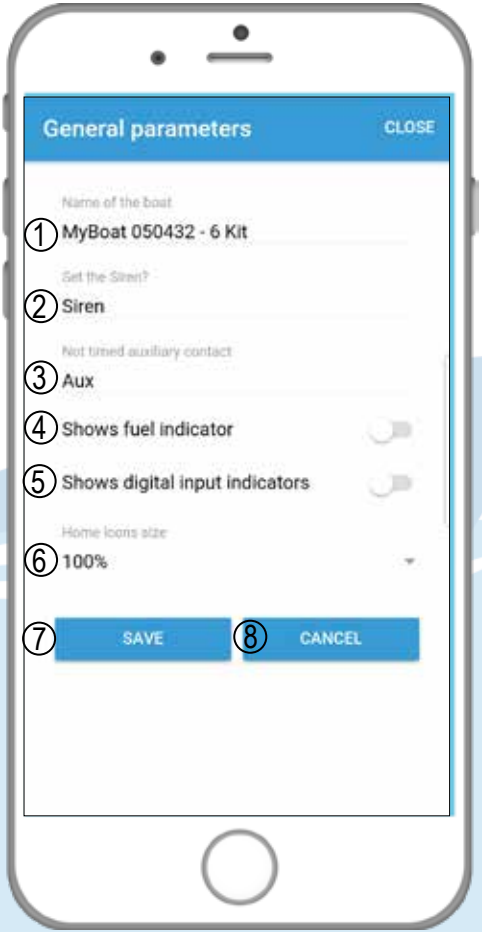
④ Displays the fuel level (Optional advanced configuration on page 29)

⑤ Displays digital inputs (Optional advanced configuration on page 29)

⑥ Icons size configura

⑦ Saves modifications

⑧ Cancels modifications



GENERAL SETTINGS

To manage multiple boats (fleet), the general settings must be customised per individual boat

① Close the application

② Name of the boat

③ Type of KIT installed

④ Terminal identification

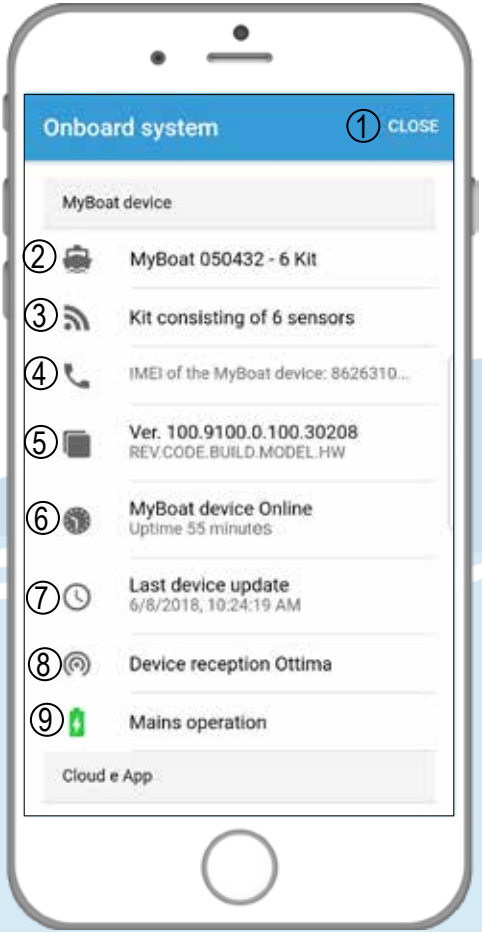
⑤ App version

⑥ Connection status

⑦ App last update

⑧ Reception signal quality

⑨ Power status

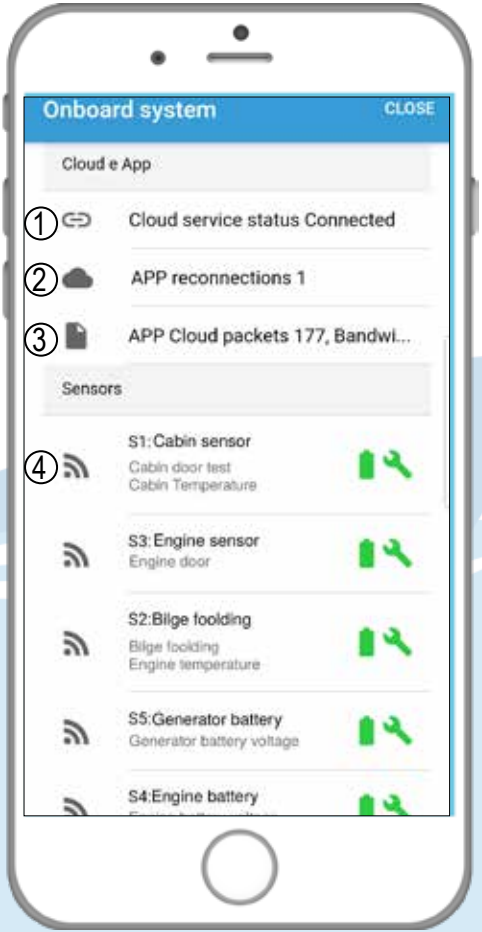


① Cloud connection status

② APP reconnection No.

③ Cloud app exchanged packs

④ Radio sensor setting



SENSOR SETTINGS

It will be possible to customise the settings of the individual sensors according to the kit purchased.

① Close the application

② Holder ID

③ Smartphone ID

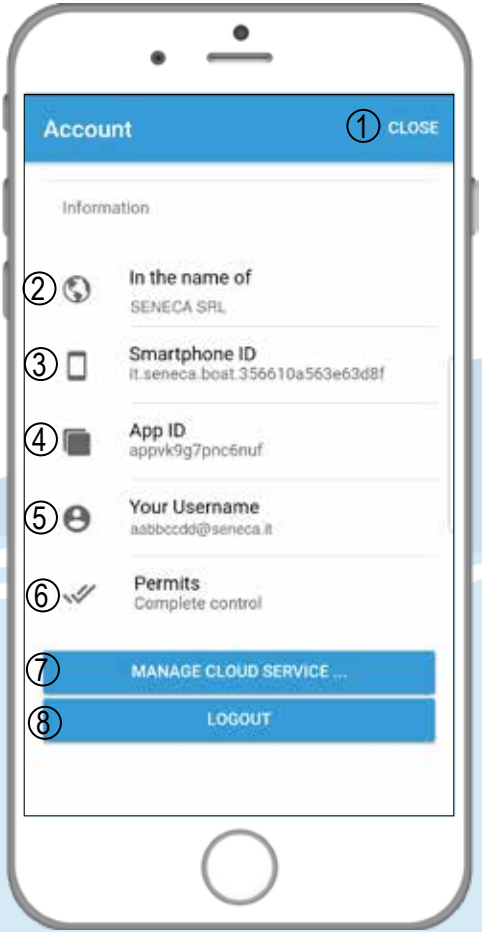
④ App ID

⑤ Username used

⑥ Permits

⑦ Cloud service management

⑧ Exit the account



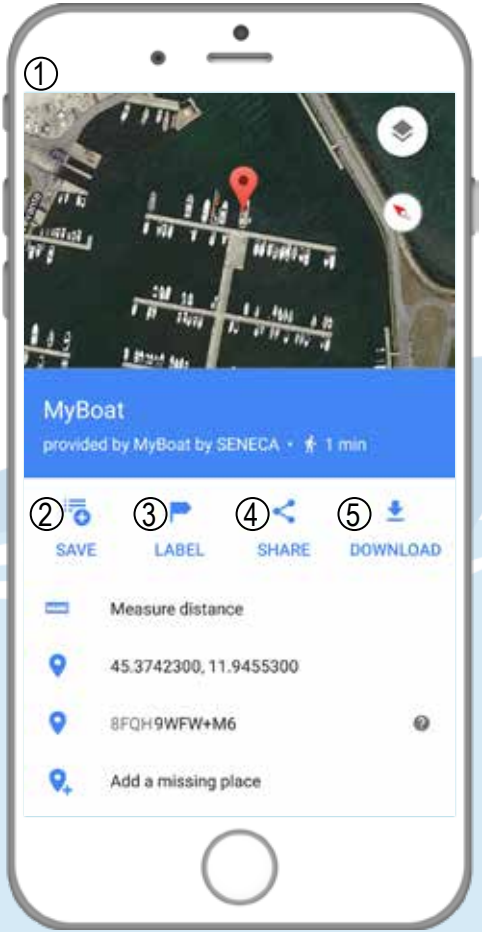
① Localization screen

② Saves position

③ Add label

④ Share position

⑤ Download position



SHARE POSITION

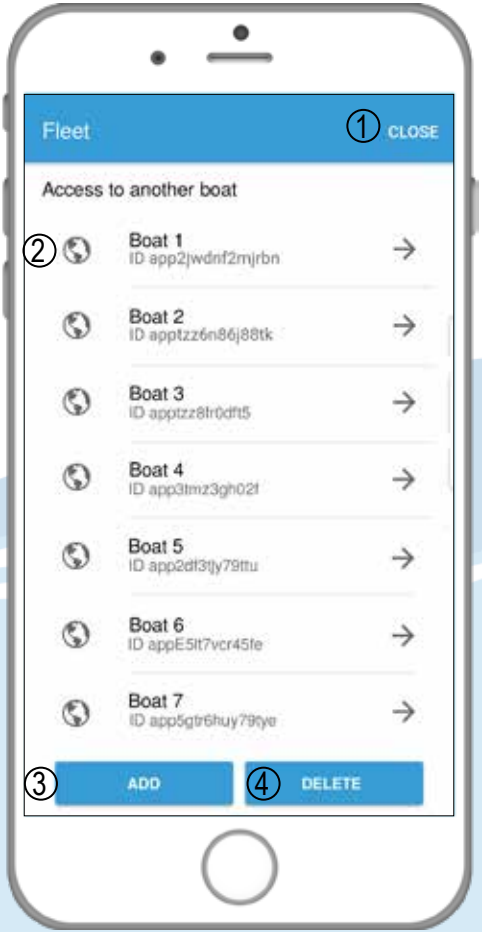
The "share position" function allows sending the position of the boat you are logged in with, to be reached and identified easily.

① Close the application

② Boat identification

③ Add boat

④ Cancel operation



FLEET FUNCTIONS

The fleet function allows switching easily between boats of the same cloud account. With a simple touch you can go from one boat to the other without having to access the app again.

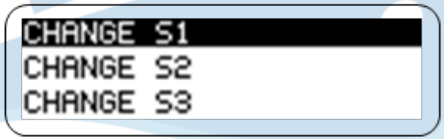
Find below the procedure to follow for the replacement of a sensor of your MyBoat KIT:

1. Check that the type of sensor to replace (S1, S2, S3, S4 ... S8) has the same code of the model replacing it;

Check the ID label on the back of the configuration button

2. Remove the battery from the old sensor to stop it communicating with the control unit;
3. Via the app, from the "SETTINGS" -> "ONBOARD SYSTEM" menu, select "CHANGE SENSORS" (this will enable the listening mode of the control unit to proceed to the registration of the new sensor);
4. On the MyBoat control unit display, select the radio menu with the SCR key (top RH corner, further info on page 8)

5. Keeping the SCR key pressed, the activation menu will be displayed. Scroll the menu to the sensor to replace and select "CHANGE LH" with the LH key.

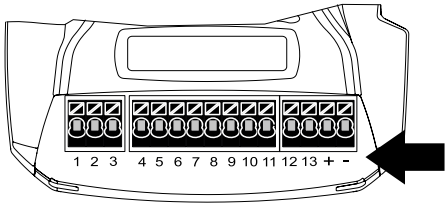


6. Insert the battery into the new sensor (see page 9) and press the red button of the sensor (figure 1 on the side) for a few seconds;
7. The control unit display will show the "OK SENSOR CHANGED" message;
8. At this point the procedure is complete. The configuration menu displayed will close automatically;

Figure 1

9. To check the operation has been successful, just press the red button again. The control unit display will show the sensor status.

The MyBoat control unit is set for advanced functions with signal inputs/outputs available on the terminal board in the lower part of the device, under the black dome.

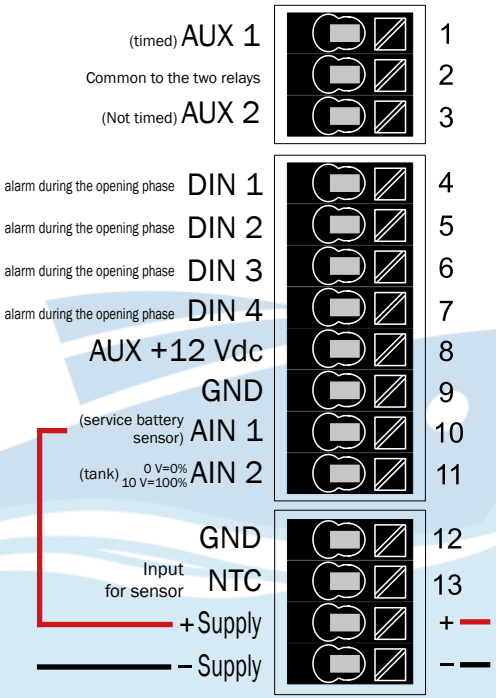


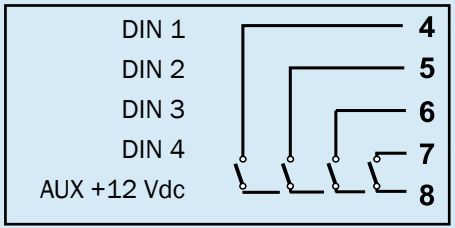
Front terminal block

The advanced functions are factory-set and immediately available but need wiring by a qualified electrician.

With the MyBoat app, it is possible to customise the labels of the individual inputs/outputs and manage their operation remotely.

TERMINAL BLOCK CONTACT KEY

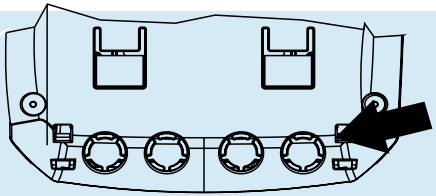




IMPORTANT:

When using the digital outputs with mains voltage, the "mobile" wiring of the cables to the terminals is not permitted.

To make the cables from the terminals safe, use the break-out passages in the back of the control unit.
When the wiring is complete, to protect the cables from any accidental contact, close the compartment with the dome and secure with the screw.



Break-out passages available in the back of the control unit

N.B: TERMINAL BOARD NOT VALID IN THE CASE OF MYBOAT 24V MODEL.

CONTACTS AND INFORMATION

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