

Sentinel Boat Monitor Installation Guide



INSTALLATION PARTS INCLUDED

- Sentinel Boat Monitor device
- User manual

INSTALLATION PARTS NOT INCLUDED

- Power cable (12V or 24V, e.g. 2x1,5mm²)
- Sensors (optional)
- Cable to connect the sensors (optional)

Installing Sentinel App

To start using your Sentinel you should install Sentinel app for your platform.



1



Tap "Activate Device" to start your activation process.

2



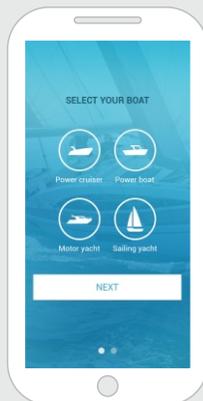
Scan your Activation Code.

3



Enter your email and preferred password.

4



Select the type of your vessel, enter additional information and tap „Create Boat" to finish you process.

NOTE! Please note that it might take up to 15 minutes for your device to start sending data to the mobile client. Once this happens we will notify you and you can then finally start using your app.

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5 Installation

METAL FREE
DIRECTION



Sentinel Boat Monitor has internal GNSS and GSM antennas. The device should be mounted with the label facing upward to ensure optimal GNSS satellite reception (fig. 1). The sky view should not be obstructed with any metal objects. If metal above the device cannot be avoided, at least $\frac{3}{4}$ of metal free area must be assured.

Sentinel Boat Monitor has IP67 protection class. It can be mounted outdoors.

The device has 2 mounting holes in the middle, covered with plastic hatches. It can be tightened with screws or attached with adhesive tape or plastic straps.

6 Electrical connection overview

The device should be connected to permanent power source to allow monitoring at all times. The device consumption is less than 1 Ah per day when moving and less than 50mAh per day when in deep sleep mode.

Cable system:

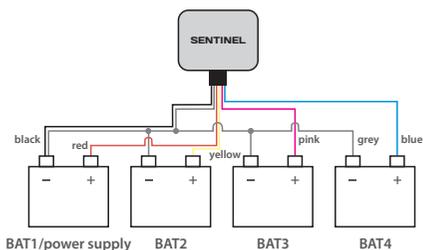
- **Red:** +12 or +24
- **Black, grey:** GND
- **Purple:** Bilge sensor input
- **Green:** Door sensor input
- **Yellow:** Voltage of the second battery input
- **Pink:** Voltage of the third battery input
- **Blue:** Voltage of the fourth battery input

6.1 Power connection

Connect the red cable to permanent power source (battery).

Connect the black and grey cable to system ground.

6.2 Voltage measurement



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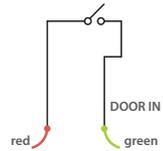
6.3 Bilge switch connection

Connect bilge switch as show on fig. 1A or existing bilge pump driving signal as show on fig. 1B.



6.4 Door switch connection

Connect door switch as shown on fig.



7 Technical specification

POWER SUPPLY: 10 to 30 V DC 2W Max

ENERGY CONSUMPTION (12V):

Nominal: average 50 mA r.m.s,

Deep Sleep: average less than 2 mA

OPERATION TEMPERATURE: -25°C to +55°C

STORAGE TEMPERATURE: -40°C to +70°C

STORAGE RELATIVE HUMIDITY: 5 to 95 % (no condensation)

	Min.	Max.	Unit
Supply Voltage			
Supply Voltage (Recommended Operating Conditions)	10	24	V
Digital Input			
Input resistance	>500		kΩ
Input Voltage (Recommended Operating Conditions)	0	24	V
Input Voltage threshold (bilge door)	6		V