SAILSENSE

HUB Pro

Installation & configuration manual

V2.1 2025-06-01

IMPORTANT SAFETY NOTICE

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THE PRODUCT. FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY.

DO NOT ATTEMPT TO INSTALL THE PRODUCT IF YOU DO NOT HAVE SUFFICIENT KNOWLEDGE OR EXPERIENCE RELATED TO INSTALLING ELECTRICAL SYSTEMS ON BOATS. MAKE SURE TO TAKE ALL THE REQUIRED SECURITY PRECAUTIONS. SWITCH-OFF THE POWER SUPPLY OF THE BOAT TO SAFELY OPERATE THE CONNECTION OR PLACEMENT OF THE DEVICE.

Review the product package and contents prior to beginning the installation. Take care when opening the packaging and removing items. Do not operate the product if the packaging or its content are damaged or if one or more parts are missing. In case of doubt, contact Sailsense support team immediately for further assistance.

Sailsense products can only be serviced by Sailsense or their official trained representatives. Do not attempt to open or repair the product by yourself. Failure to do so will immediately void the warranty.

Please leave no part of the package within reach of children or irresponsible adults.

The manufacturer and distributors of this product cannot be held liable and declines responsibility for damage or personal injury resulting from improper use or failure to observe the instructions of the Installation Procedure.

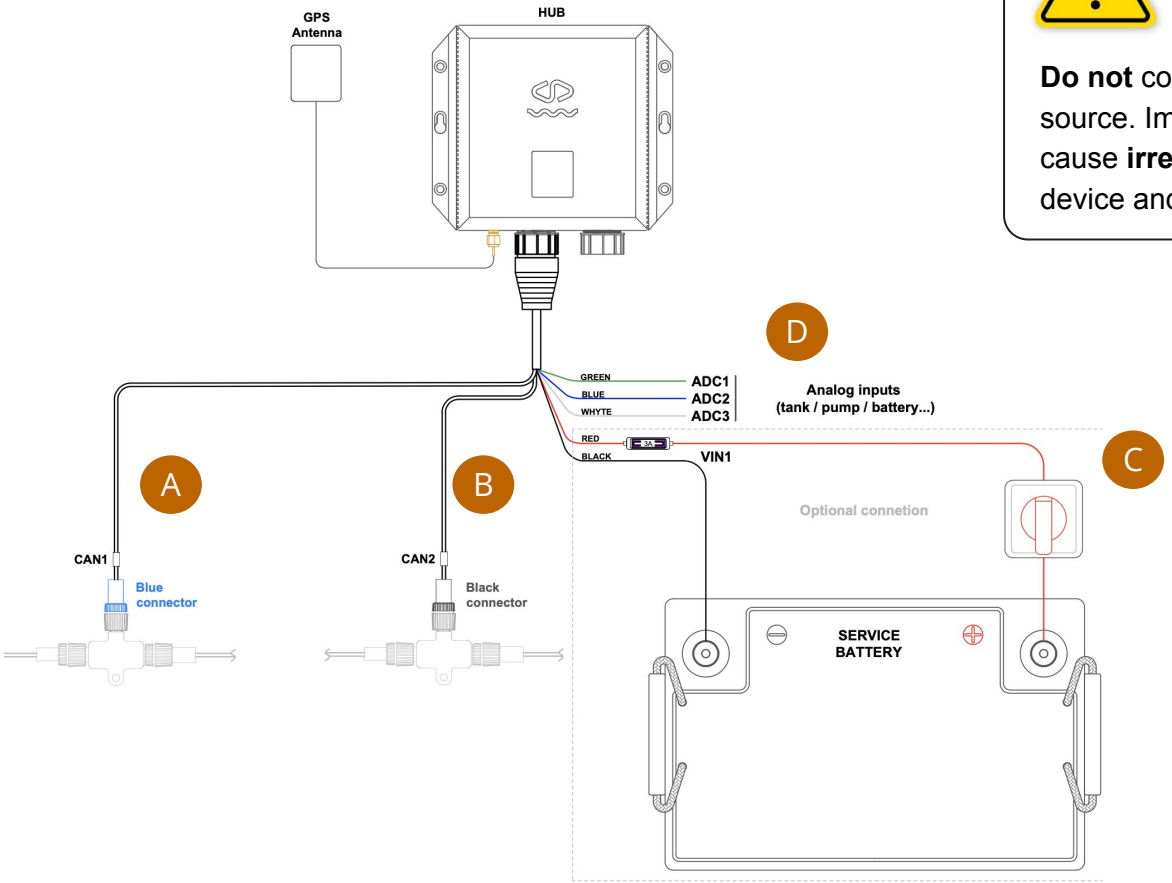
Do not hesitate to reach out in case of question during installation :

Mail : support@sailsense.io

WhatsApp : +44 74 18 31 07 94

Knowledge base: https://help.sailsense.io

INSTALLATION SCHEMATICS



The HUB is designed to operate on a **12–24 VDC power supply only**.

Do not connect it to any other voltage source. Improper connection may cause **irreversible damage** to the device and **void the warranty**.

This document outlines a step-by-step process to install a Sailsense HUB. Following these steps will ensure a smooth and successful installation.

The installation comprises of 5 steps:

1. Prepare the necessary tools
2. Determine the best installation spot
3. Install the GPS Antenna
4. Install the HUB
5. Configure the HUB

1

Prepare the necessary tools

To perform an installation you need the following tools and equipment:

- The **HUB**... obviously 😜
- The **Cabling Kit** for the HUB
- A few tools and accessories (not provided by Sailsense)
  - Screws adapted to the surface on which you want to install the HUB
  - Cable crimps or clip connectors
  - Double face tape or silicone to mount the GPS antenna
  - A screwdriver
  - A crimping tool
  - A drill
  - (Optional) a voltmeter
  - (Optional) Cable ties... for a neat installation
  - (Optional) NMEA2000 cable adapter for Raymarine or Simrad NMEA backbones

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2

Determine the best installation spot

Carefully selecting the best installation location for the HUB will help you minimize the installation time and prevent unnecessary troubleshooting later on.

The best position of the HUB depends:

The HUB itself

- **Inside**, in a dry location protected from splashes and direct sunlight
- On a vertical or horizontal surface
- **> 1m above water level**
- **> 0.5m away from metal objects** or tanks
- Close to a free slot on the NMEA2000 backbone
- Close to a DC power source (if not powered from NMEA2000 backbone)
- Avoid areas with high vibration or temperature extremes

The GPS Antenna

- **Inside** the boat
- On an **horizontal** surface
- **< 3m from the HUB**
- With the **clearest possible view of the sky** (close to a window, hatch, or under a thin fiberglass deck)
- Avoid installation under thick fiberglass, metallic surfaces, sunbeds, gangways, or decks
- Avoid placing the antenna close to tanks, metallic objects or electronic interference sources

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3

Install the GPS Antenna

Proper positioning of the GPS antenna is essential to ensure accurate location based features.

1. **Install the GPS Antenna as follows:**
   - Indoor
   - On a **flat horizontal** surface
   - With the top (black cover) **facing the sky**
   - With the **clearest possible view of the sky** (close to a window, hatch, or right under a thin fiberglass deck)
   - Avoid installation under thick fiberglass, metallic surfaces, sunbeds, gangways, or decks or close to metallic objects or sources of electronic interference

2. **When done, secure the antenna with a zip tie, double face tape or a drop of silicone.**

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4a

Install the HUB

1. Connect the Cabling Kit to a 12-24 VDC power Source

You have 3 main options:

- **Option A - Power the HUB from the NMEA2000 backbone**: in this case the HUB only monitors the boat when the NMEA2000 backbone is ON.

  → *Plug the blue NMEA connector* A *of the Cabling Kit to the NMEA backbone*

- **Option B - Power the HUB from Service battery after main switch**: in this case the HUB monitors the boat when the main switch is ON.

  → *Connect the red wire of the Cabling Kit to the (+) of the service battery and the black wire to the (-) of the service battery,* ***after*** *main switch* C

- **Option C - Power theHUB from Service battery before main switch**: the HUB constantly monitors the boat. This setup is only recommended if the boat has an external power supply (shore power) or an autonomous power production.

  → *Connect the red wire of the Cabling Kit to the (+) of the service battery and the black wire to the (-) of the service battery,* ***before*** *main switch*

2. Connect the Cabling Kit to the NMEA2000 Backbone

If not done in previous step, plug the black NMEA connector B of the Cabling Kit to the NMEA backbone of the boat.

3. Connect the Cabling Kit to analog sources

Optionaly, you can monitor additional battery / tanks / pumps / … by connecting them to the analog inputs of your HUB D

For more information about analog inputs, see appendices

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4b

Install the HUB

1. **Place the waterproof cap on the Ethernet connector**
   If your boat is equipped with Starlink or another router, you can use the Ethernet port to connect your HUB to it

2. **Screw the HUB to the boat,** with its connectors facing down, leaving enough space to access the device's connectors later

3. **Screw the GPS Antenna connector to the HUB golden connector**

4. **Screw the Cablink Kit connector to the main HUB connector**

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5

Configure the HUB

1. **Power the HUB**
   If not done already, turn on the 12-24VDC power source of the HUB
2. **Wait for for the Led color to become Blue**
   It takes up to 5 minutes
3. **If not done already, download the Sailsense APP for IOS or Android**
4. **If not done already, create a Sailsense account**
5. **If not done already, create a boat**
6. **If not done already, pair the HUB to the boat**
7. **Configure the HUB… and enjoy!**

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5

Configure the HUB

Here's an explanation of the meaning of the color of the LED of the HUB.

No light : the device is powered off

Flashing white : the device starts

White steady : the device is starting to operate (HUB only)

Flashing white / green : the device is locally connected to CAN network

Blue steady : the device is connected remotely (HUB only)

Blue / green : the device is connected remotely and to CAN Network

Error :

Flashing red : error mode

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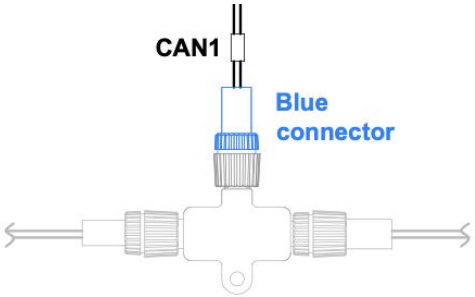
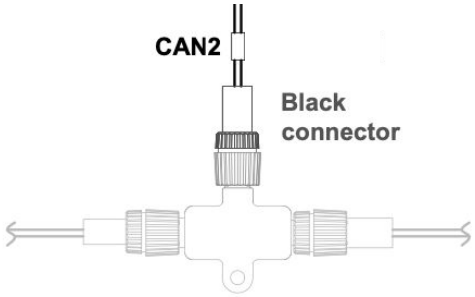
Appendices

For HUB installation & configuration





CAN1 is the hub's **main CAN input**. It is used to:

- Power the hub
- Send and receive CAN messages

CAN2 is available if you have **two different CAN networks**. This input only allows you to receive CAN messages.

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CAN1 & CAN2

What's the difference ?

Depending on your installation, you may need an **adapter or T-connector / multi joiner** to connect your HUB to the CAN network. Here are some references for Raymarine and B&G:

B&G	RAYMARINE
SIMNET ADAPTER • 24005729 (short) • 24006199 (long) 	N2K SEATALK • A06045 (short) • A06075 (long) 
N2K SEATALK - MULTI JOINERS T CONNECTORS AND DORSAL CABLE • 000-0119-79 • 24005860 • 24005829 	N2K SEATALK - MULTI JOINERS T CONNECTORS AND DORSAL CABLE • A06028 • A06064 • A06033 

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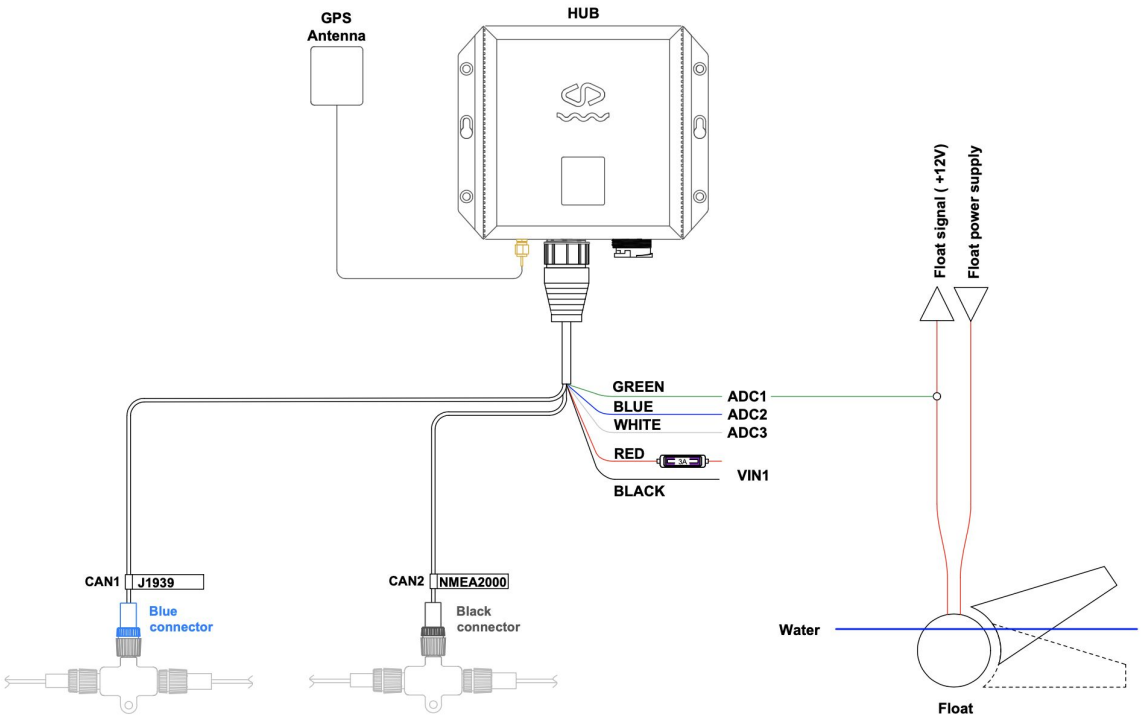
CAN PARTS

ADC1/ADC2/ADC3:

In the case you want monitor additional battery / tanks / pumps … you can connect them to the analogics input of the HUB.

You'll find remote informations of those items in your mobile App.

Example : connecting a float to monitor the bilge alert



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Analog input

Optional

For any question or feedback, please contact Sailsense via :

Mail : support@sailsense.io
WhatsApp : +44 7418 310794

Sailsense knowledge base : https://help.sailsense.io/en

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