

DPNav

EasyHub

Installation manual



preface

These commissioning instructions are intended to serve as a reference guide for setting up the EasyHub product.

The commissioning instructions assume that the user possesses basic knowledge of NMEA on-board network installation.

The user is solely responsible for installing and using the product in such a way that no accidents, injuries, damage, or violations of the law occur. This product serves solely as a navigation aid. It is no substitute for suitable nautical charts, trained personnel, and sound judgment. The user bears sole responsibility for the safe navigation of their vessel and compliance with safety regulations.

MAIK PFEIL DPNNAV ASSUMES NO LIABILITY WHATSOEVER FOR ANY USE OF THE PRODUCT IN A MANNER THAT COULD LEAD TO ACCIDENTS, INJURIES, DAMAGES, OR VIOLATIONS OF THE LAW.

Version

This commissioning manual (version 1.0.1) applies to the EasyHub product running firmware version 1.0 (68) from July 2026. Any updates to the commissioning manual will be published on the website <https://www.dpnav.de>.

Copyright

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Software

The EasyHub firmware is updated at regular intervals, with functions being modified or expanded. This may also include important security updates. Please check the device's web interface (Settings -> Firmware Download) or <https://www.dpnav.de> for available updates and always ensure you have the latest version installed.

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1. Hardware installation

1.1 Scope of Supply

The EasyHub is available in two variants:

- Standalone unit with protective cap for M12 connector
- Bundle comprising:
 - Standalone unit with protective cap for M12 connector
 - 2m length cable
 - T-connector

1.2 Dimensions and Assembly

The following images show the outer dimensions and mounting hole distances of the enclosure.

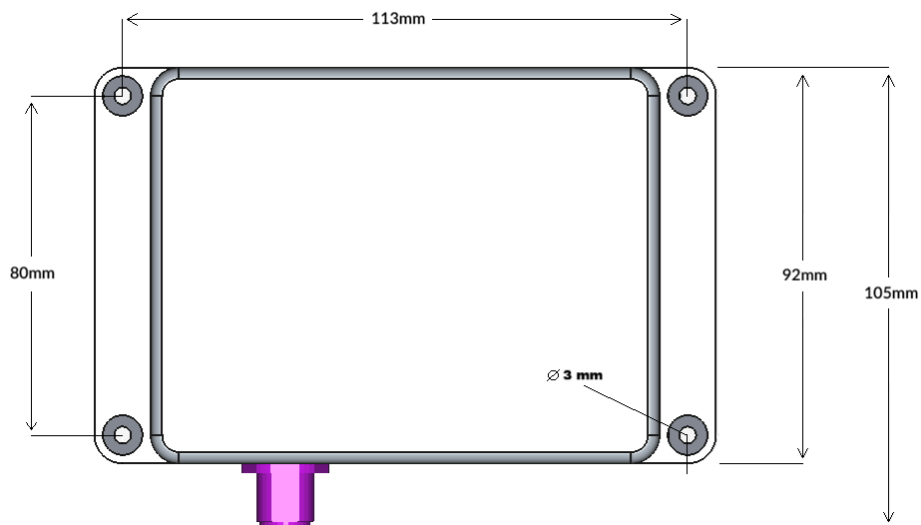


Figure 1 - EasyHub Dimensions, Top View

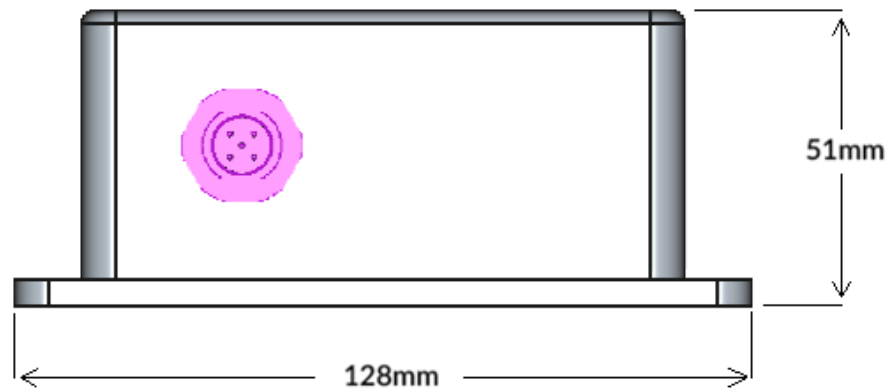


Figure 2 - EasyHub Dimensions, Front View

As illustrated, the device should be mounted on the wall with the plug facing down. Four screws for wall mounting are included in the scope of delivery.

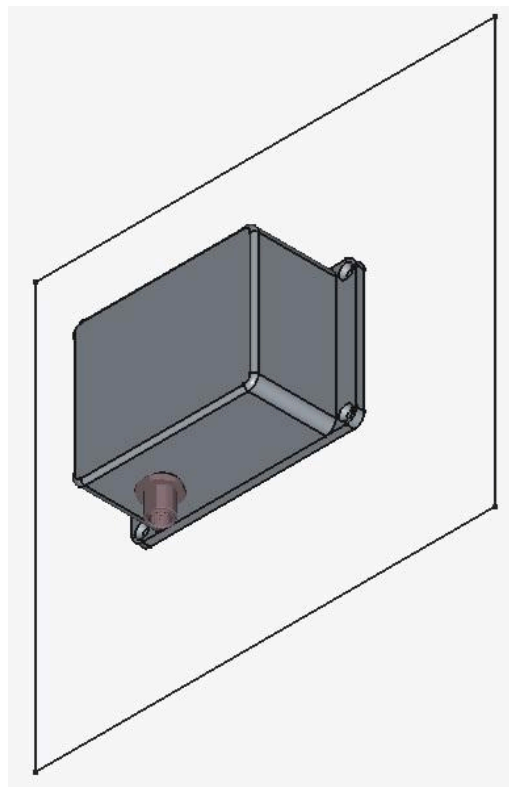


Figure 3 - EasyHub Wall Mounting

Important: The device must be mounted below deck, as it is not waterproof (IP rating: IP4X, see User Manual, Chapter 11 Technical Details).

1.3 Maintain clearances (EMC protection)

To prevent malfunctions of your navigation and communication equipment, please ensure that you observe the following minimum distances when positioning this device:

<i>Device type</i>	<i>Minimum clearance</i>	<i>Description</i>
<i>Magnetic compass</i>	<i>1,0 m – 1,5 m</i>	<i>Prevention of compass deviation (deviation error) caused by magnetic fields.</i>
<i>VHF radio / AIS</i>	<i>1,0 m</i>	<i>Protection against radio frequency interference (radio noise).</i>

Important: After installation, it is mandatory to check that the compass operates freely and to perform a functional check of the radio equipment with the new device switched on.

1.4 Connect to the NMEA 2000 bus

The EasyHub is connected to the onboard network using an NMEA 2000 drop cable with an M12 connector. Connection to NMEA 2000 is supported, as well as to SeaTalkng and SimNet using adapter cables or plugs.



Figure 4 - EasyHub with NMEA 2000 cable and T-connector

1.4.1 Connecting to NMEA 2000

Below is an example of an NMEA 2000 connection using a T-connector.

Integrating EasyHub into an NMEA 2000 network using a T-connector

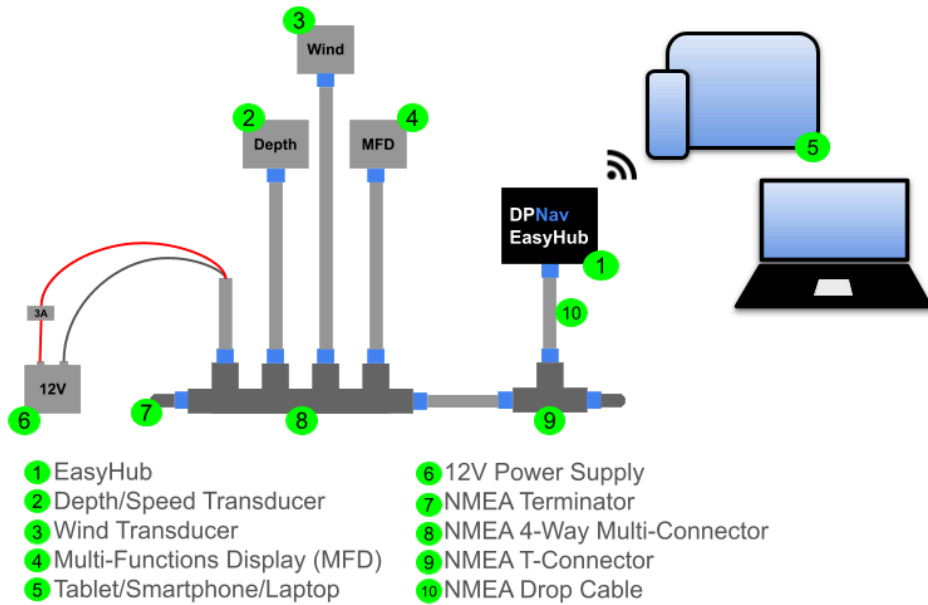


Figure 5 – EasyHub with T-connector

Below is an example of an NMEA 2000 connection using a 4-way connector.

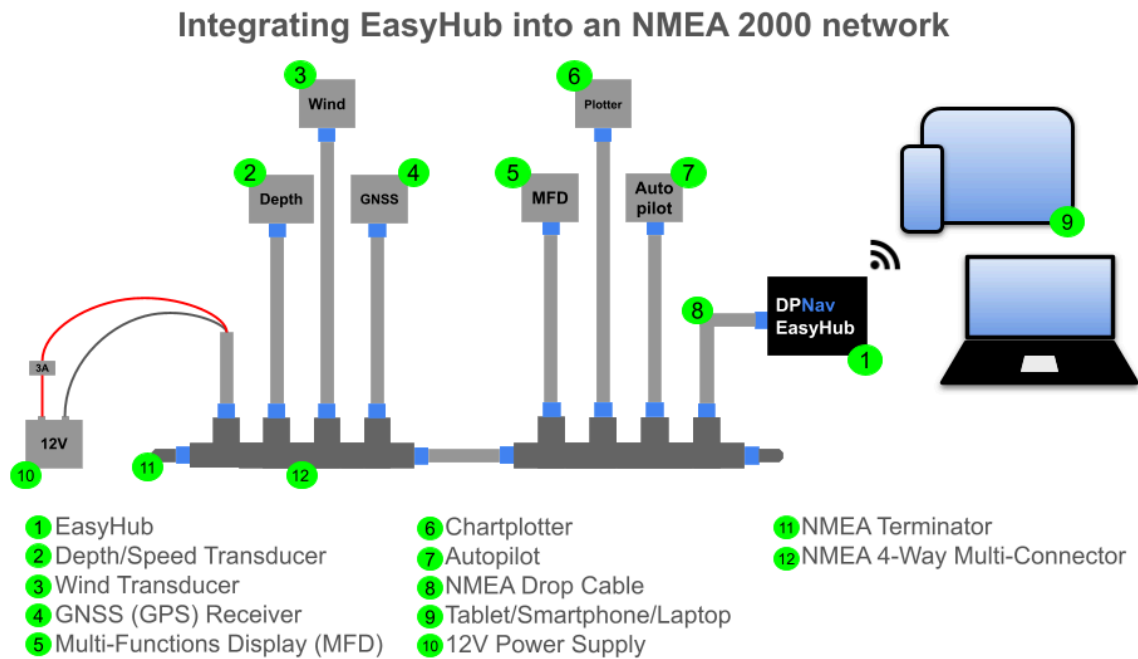


Figure 6 – EasyHub connected to a 4-way connector

Important: The maximum length of the NMEA 2000 drop cable must not exceed 6 meters.

1.4.2 Connecting to SeaTalk NG

Alternatively, the device can be connected to a SeaTalkng network using a SeaTalkng to NMEA 2000 adapter.

Integrating EasyHub into a SeaTalkng network

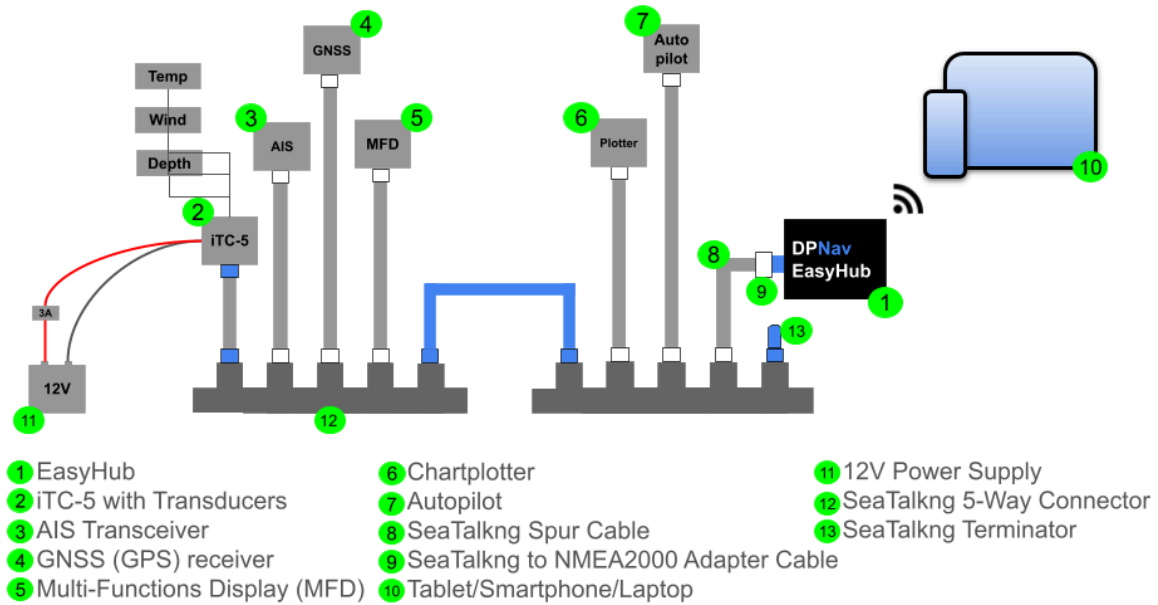


Figure 7 – EasyHub with adapter to SeaTalkng

1.4.3 Connecting to SeaTalk1

Alternatively, the device can also be connected to a SeaTalk1 network using a SeaTalk1 to SeaTalkng converter kit. A SeaTalkng to NMEA 2000 adapter is also required (for example, Raymarine A06082).

Integrating EasyHub into a SeaTalk1 network using a SeaTalk1 to SeaTalkng converter

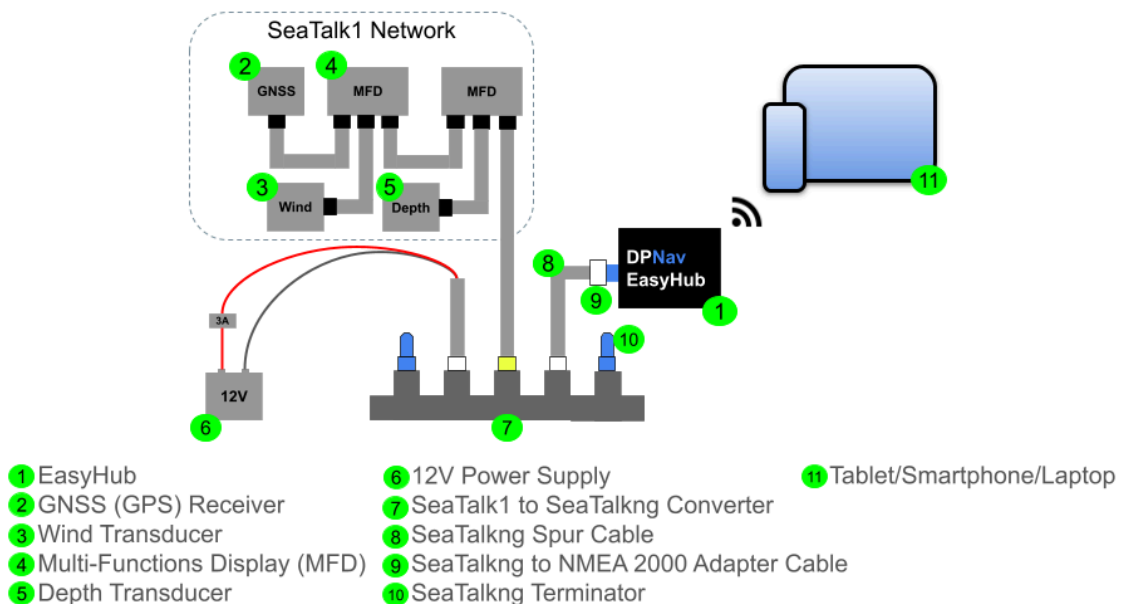


Figure 8 – EasyHub with converter to SeaTalk1

1.4.4 Connecting to SimNet

SimNet is used as an onboard network with B&G and Simrad components. The device can be connected to a SimNet network using a SimNet to NMEA 2000 adapter cable.

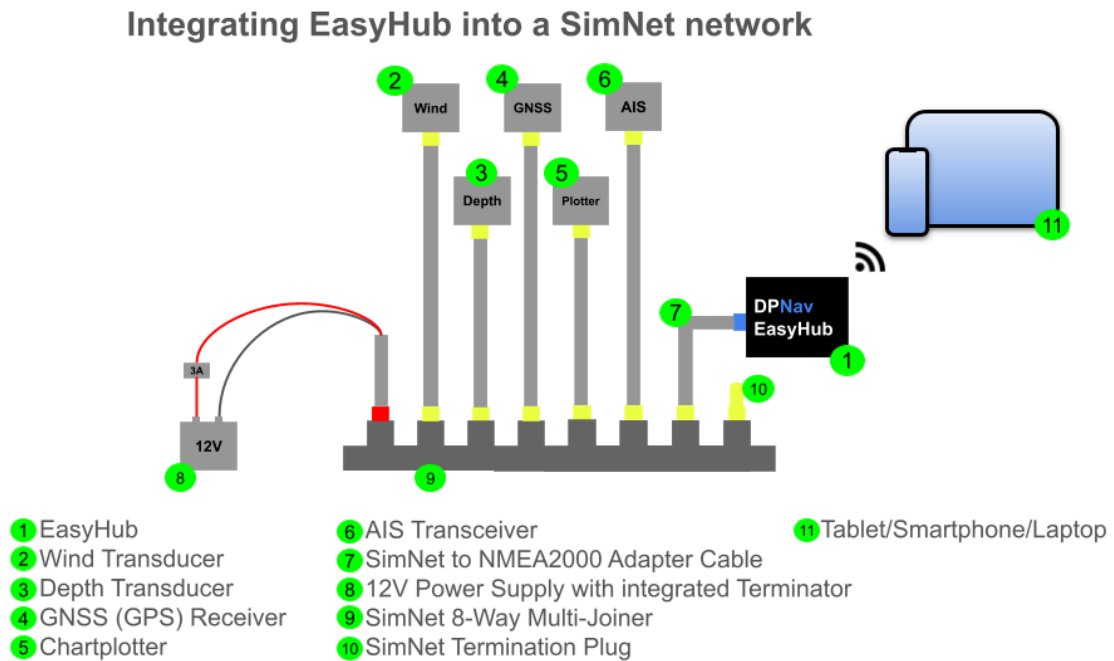


Figure 9 – EasyHub with SimNet to NMEA 2000 cable to SimNet

2. Initial Commissioning

For initial commissioning and operation of the EasyHub, the NMEA 2000 bus must be connected to a 12V power supply, as the EasyHub draws power directly from the NMEA 2000 bus. This is typically the case when multiple sensors, such as depth sounders, speed logs, or wind sensors, are already connected to the NMEA 2000 bus.

Integrating EasyHub into an NMEA 2000 network with 12V power supply

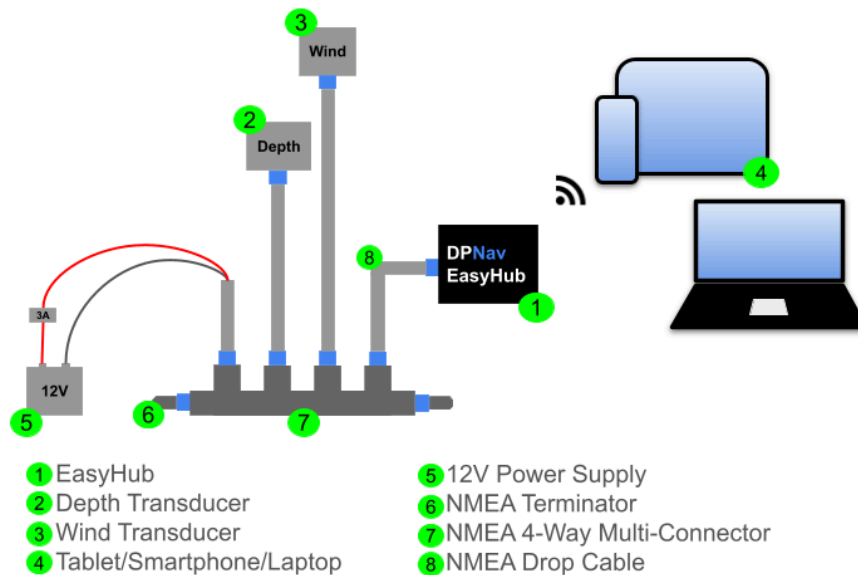


Figure 10 – EasyHub on the NMEA 2000 bus with 12V power supply

As soon as the device is active, you can connect to it via 2.4 GHz Wi-Fi under the network name **“BoatHub”**. The default password is **“myboathub”**.

On the back of the enclosure, you will find a label with the Wi-Fi credentials, web interface URL, and administrator login details.

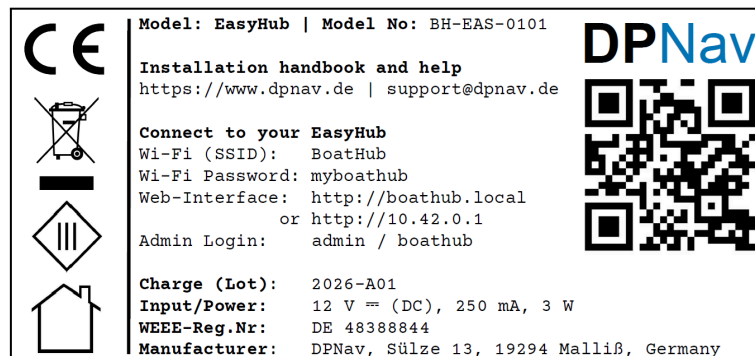


Figure 11 – EasyHub label on the back of the device

2.1 Connecting to the Web Interface

Once the Wi-Fi connection is established, you can access the web interface using the browser on your smartphone, tablet, or laptop at <http://boathub.local> or <http://10.42.0.1>.

By default, the setup wizard is displayed in English, see Figure 11.

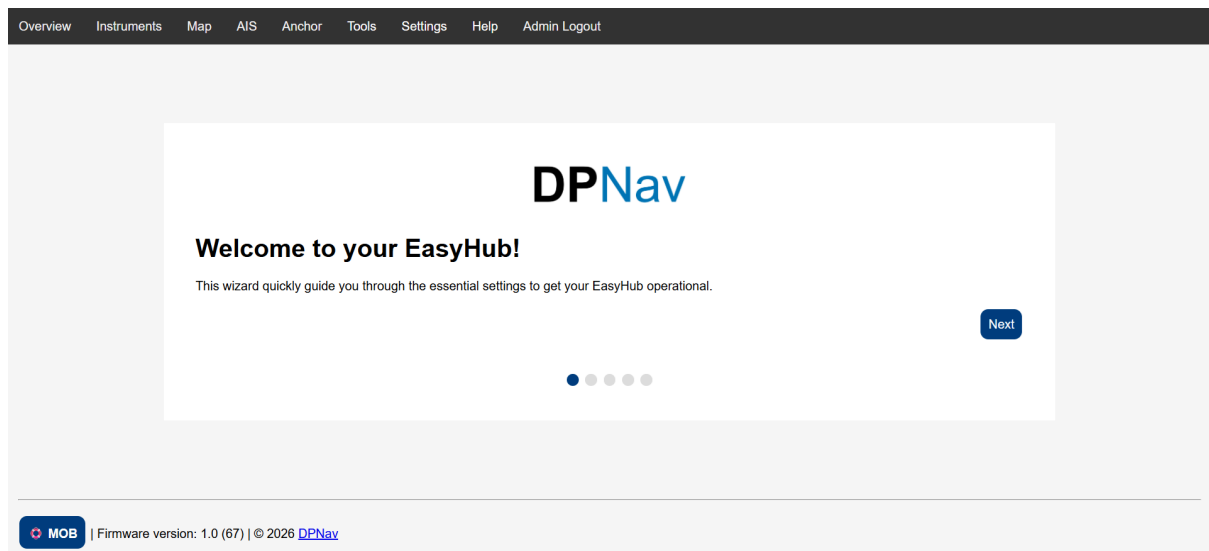


Figure 11 – EasyHub web interface setup wizard (Step 1)

The following section describes the setup wizard.

2.2 Setup Wizard

The setup wizard guides you through the most important settings for commissioning the device.

Please have the following information ready:

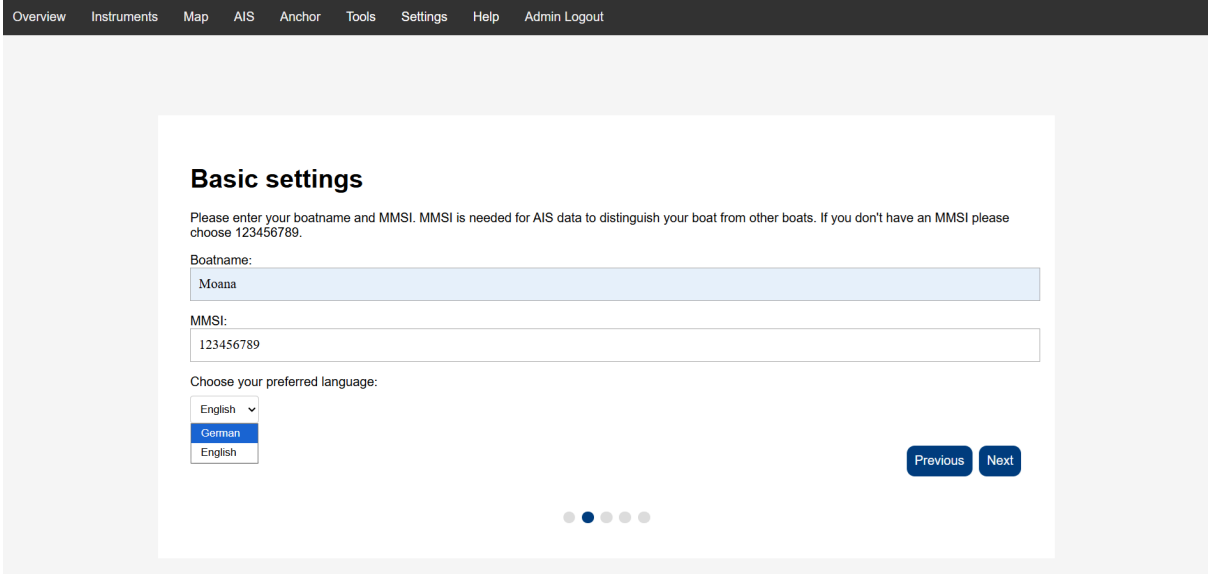
- Vessel Name
- MMSI (if available)
- Optional: Wi-Fi Name (SSID) to connect to the internet
- Optional: Wi-Fi Password
- Optional: Email address for Cloud Service activation

If the setup details are not available, they can also be entered later via the settings.

Click the "Next" button to proceed to the next page.

2.2.1 Enter vessel name and MMSI

On the second page of the setup wizard (see Figure 12), enter the vessel name and optionally the 9-digit MMSI (Maritime Mobile Service Identity) of the AIS transmitter. Always enter the MMSI for a vessel with an active AIS transmitter to ensure your vessel is displayed correctly in the AIS views and via the NMEA to Wi-Fi gateway function. You can also select your preferred language.



The screenshot displays the 'Basic settings' page of the EasyHub Setup Wizard. At the top, a dark navigation bar contains links: Overview, Instruments, Map, AIS, Anchor, Tools, Settings, Help, and Admin Logout. The main content area has a light gray background. A white box contains the title 'Basic settings' and a paragraph: 'Please enter your boatname and MMSI. MMSI is needed for AIS data to distinguish your boat from other boats. If you don't have an MMSI please choose 123456789.' Below this, there are three input fields: 'Boatname:' with the value 'Moana', 'MMSI:' with the value '123456789', and a language selection section titled 'Choose your preferred language:' with a dropdown menu showing 'English', 'German' (highlighted in blue), and 'English'. At the bottom right of the form are 'Previous' and 'Next' buttons. A progress indicator at the bottom center shows four dots, with the second dot (representing the current step) filled with blue.

Figure 12 – EasyHub Web Interface Setup Wizard (Page 2)

Click the "Next" button to proceed to the next page.

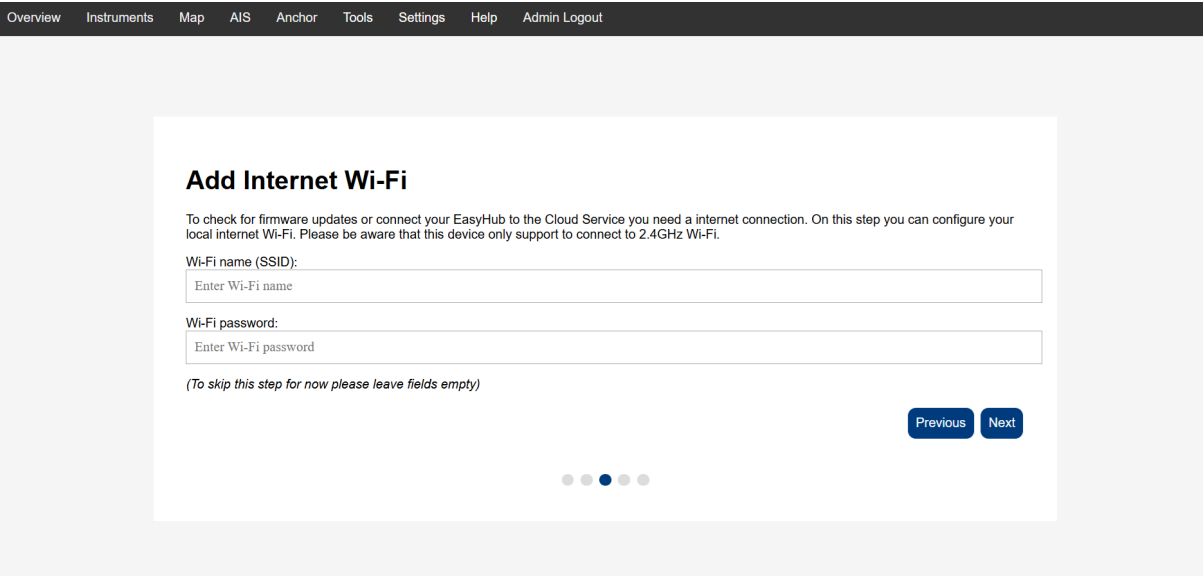
2.2.2 Enter Internet Wi-Fi Data

On the third page of the setup wizard (see Figure 13), you can enter the details for the Internet Wi-Fi—the Wi-Fi network that provides an internet connection, such as a Starlink connection, LTE 4G/5G router, marina Wi-Fi, or mobile hotspot on a smartphone or tablet.

This step is optional and not strictly required for the EasyHub to function; it can also be completed later in the settings. **It is recommended to establish an internet connection during initial setup in order to download and install the latest firmware update immediately afterward.**

The Wi-Fi name (also known as the SSID) and the corresponding password must be entered.

Note: *The EasyHub supports 2.4 GHz Wi-Fi connections with WPA2-PSK (no WPS).*



The screenshot displays the 'Add Internet Wi-Fi' step of the EasyHub setup wizard. At the top, a dark navigation bar contains links: Overview, Instruments, Map, AIS, Anchor, Tools, Settings, Help, and Admin Logout. The main content area has a white background with the title 'Add Internet Wi-Fi'. Below the title, a paragraph explains the purpose of this step: to check for firmware updates or connect to the Cloud Service, requiring an internet connection. It notes that the device only supports 2.4GHz Wi-Fi. Two input fields are provided: 'Wi-Fi name (SSID):' with a placeholder 'Enter Wi-Fi name', and 'Wi-Fi password:' with a placeholder 'Enter Wi-Fi password'. A note below the fields states '(To skip this step for now please leave fields empty)'. At the bottom right, there are 'Previous' and 'Next' buttons. A progress indicator at the bottom center shows five dots, with the third dot (representing this step) highlighted in blue.

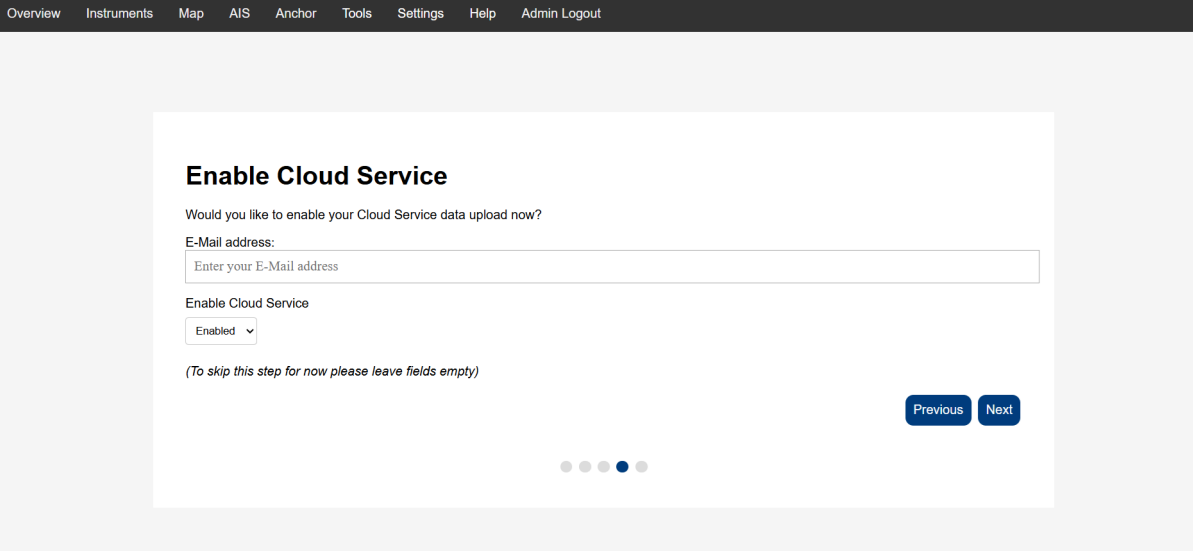
Figure 13 – EasyHub Web Interface Setup Wizard (Page 3)

Click the "Next" button to proceed to the next page.

2.2.3 Enter Cloud Service Data

On the fourth page of the setup wizard (see Figure 14), you can enter the details for the DPNav Cloud Service. To activate the DPNav Cloud Service—specifically for uploading

board network data to the DPNav Cloud—enter the email address registered with your DPNav Cloud Service account, and select “Enabled” from the drop-down menu below.



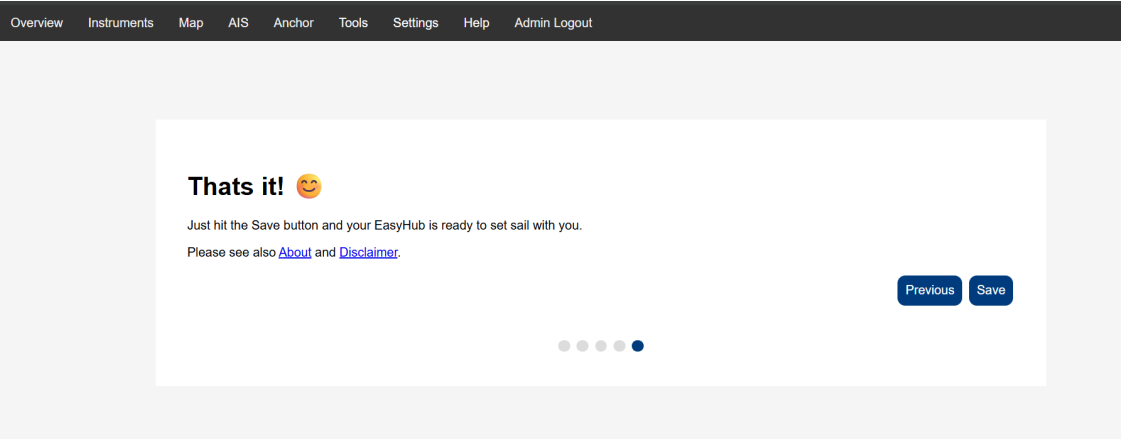
The screenshot shows the 'Enable Cloud Service' step of the setup wizard. At the top is a navigation bar with links: Overview, Instruments, Map, AIS, Anchor, Tools, Settings, Help, and Admin Logout. The main content area has a title 'Enable Cloud Service' and a question: 'Would you like to enable your Cloud Service data upload now?'. Below this is a text input field labeled 'E-Mail address:' with the placeholder 'Enter your E-Mail address'. Underneath is a dropdown menu labeled 'Enable Cloud Service' with 'Enabled' selected. A note in parentheses says '(To skip this step for now please leave fields empty)'. At the bottom right are 'Previous' and 'Next' buttons. A progress indicator at the bottom center shows five dots, with the fourth dot (representing this step) being filled.

Figure 14 - EasyHub Web Interface Setup Wizard (Page 4)

Clicking the Next button takes you to the next page.

2.2.4 Completion of the Setup Wizard

On the fifth page of the setup wizard (see Figure 15), click the "Save" button to complete the setup. The Wi-Fi internet configuration will then be activated; this may cause a brief interruption of the existing Wi-Fi connection.



The screenshot shows the final step of the setup wizard. The navigation bar is the same. The main content area has the title 'Thats it! 😊'. Below it is a message: 'Just hit the Save button and your EasyHub is ready to set sail with you.' and a link to 'Please see also [About](#) and [Disclaimer](#).' At the bottom right are 'Previous' and 'Save' buttons. A progress indicator at the bottom center shows five dots, with the fifth dot (representing this final step) being filled.

Figure 15 - EasyHub Web Interface Setup Wizard (Page 5)

After completing the setup wizard, you can use the web interface.

3. Using the Web Interface

You can use the web interface once you have completed the setup wizard.

The following is an overview of the available functions:

- **Instruments** - The instruments dashboard displays data from the NMEA bus across various pages. This can include depth, wind, tank, and engine sensors, as well as position, heading, and speed data.
- **Map** - The map view displays the vessel's position as well as the current heading and speed data. A basic world map comes pre-installed.
- **AIS** - The AIS display allows you to view other vessels along with their heading and speed.
- **Anchoring** - An anchor watch can be activated in the Anchoring menu.
- **Tools** - This menu item offers a variety of tools, such as the automatic logbook, vessel polar data, buddy boat management, track recording, setting markers, and more.
- **Settings** - Settings – This section allows you to modify general, display, and Cloud Service settings. You can also access map downloads and the firmware update feature. Most settings can only be adjusted in Admin Mode (see Admin Login).
- **Admin Login** - The default admin login credentials are the username “admin” and the password “boathub”.
- **Help** - This section provides help pages covering common abbreviations, instructions for configuring the NMEA to Wi-Fi function, and much more.

A detailed description of the individual features can be found in the EasyHub user manual.

4. Troubleshooting

The following list outlines common issues, their potential causes, and troubleshooting solutions:

Error Category	Error	Possible Cause	Solution
Wi-Fi	Unable to connect to BoatHub Wi-Fi	Incorrect password entered, Software error in the device	Please restart the device (power down the NMEA bus for approx. 5 seconds, then switch it back on).
Wi-Fi	Wi-Fi connection to the internet fails to establish	Incorrect SSID entered, incorrect password entered, software error in the device	Please check the SSID and password entry under the menu item "Settings - Interface Wi-Fi". If the connection details are entered correctly, please restart the device (power down the NMEA bus for approx. 5 seconds, then switch it back on).
NMEA	No data received from NMEA bus	NMEA cable not connected correctly, NMEA bus not properly terminated with resistors, NMEA listener service crashed or failed to start properly	In the web interface on the home page, check the "Device Status" box to see whether the status of the "NMEA2000 Interface" and "NMEA2000 Analyzer" is set to green. If the status of the "NMEA2000 Analyzer" is red, please restart the device (power down the NMEA bus for approx. 5 seconds, then switch it back on). Check whether data packets (so-called PGNs) are being received under the menu item "Settings - Debug". The display "Received packet rate for all PGNs:" should show more than 0pps.

NMEA Wi-Fi Gateway Feature	Vessel position jumps while underway or changes while the vessel is stationary	Multiple GNSS (GPS/GLONASS etc) receivers active on the NMEA bus.	The EasyHub receives GNSS position data from multiple devices, e.g. chartplotter with integrated GPS antenna, external GPS antenna, or AIS receiver with GPS antenna. NMEA data can be filtered under the menu item "Settings - General" in the "NMEA Source Filtering" box. Check the list to see whether GNSS PGNs such as "129025 - Position Rapid Update" are being sent multiple times, and filter the data from that device or prioritize one device.
Instrument Display / AIS	No vessels displayed in AIS view, although an AIS receiver is used on the NMEA bus	The AIS data cannot be processed by EasyHub	This may indicate an incompatibility with the AIS receiver. Please contact Support, see user manual section 10.1
Firmware	Firmware update error message: "Couldn't check for firmware version."	There is no internet connection; the DPNav firmware servers are not reachable	Check the internet connection via internet Wi-Fi under the menu item "Settings - Internet Wi-Fi". The display should show "DPNav Cloud reachable: yes". If this is not the case, please check the router's internet connection.
Firmware	Firmware update error message "Couldn't download new firmware."	There is no internet connection; the DPNav firmware servers are not reachable	Check the internet connection via internet Wi-Fi under the menu item "Settings - Internet Wi-Fi". The display should show "DPNav Cloud reachable: yes".

			If this is not the case, please check the router's internet connection.
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4.1 Contact Support

If none of these solutions resolve the issue, you can contact EasyHub Support via the contact form at <https://dpnav.de/kontakt/> or by email at support@dpnav.de.

When submitting a support request, it is recommended to always include the debug information. The debug information can be generated under the menu item "Settings - Debug" by clicking the "Download debug data" button, and should be attached to the email.

5. Commissioning Manual Revision History

Version	Datum	Änderungen
1.0.1	July 2026	Updated sections Scope of Delivery, NMEA 2000 Wiring, and Troubleshooting. Added Section Trademarks.
1.0	June 2026	Initial version created.

6. Trademarks

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