IMPORTANT NOTE

Your EnviroLink has a WiFi network name “**EnviroLink-xxxx**” where **xxxx** is your unique 4 digit code. The default Password = “**PASS-xxxx**”, where **xxxx** is the same unique four-digit code at the end of the WiFi network name.

To access the web interface, http://192.168.1.1 or http://EnviroLink.local

EnviroLink NMEA 2000 Barometer

Installation and instruction Manual

www.digitalyachtamerica.com

1. Introduction

Congratulations on the purchase of your EnviroLink. This product is designed to monitor the Air Pressure, Temperature and Humidty onboard the boat. In addition, it uses this data to provide early warning of a local pressure drop, that might indicate a storm is approaching or warn that a high pressure is coming in, so good weather is on the way. The NMEA 2000 data and alerts that it produces can be displayed by any compatible MFD display.

EnviroLink will record up to 96 hours of data and graphically plot the data on its built-in web interface.

This Product Guide provides important information that we recommend you read before attempting to install or use this EnviroLink unit. If you have any concerns or questions, please visit our Support website at https://digitalyacht.support and raise a support ticket.

2. Before you start

You will need the following items and tools to complete the installation:

- The EnviroLink unit.
- A suitable NMEA 2000 drop cable (not supplied).
- M4 screws (not supplied) or other fixings appropriate to the mounting location.

To configure and operate the unit, you will need:

- A wireless mobile device such as a smart phone or tablet, which has a modern web browser like; Safari, Google Chrome, Firefox, Microsoft Edge, etc.

3. Installation

Before starting installation select a suitable location for the EnviroLink unit. The unit is NOT waterproof, as for accurate measurements, it needs good airflow through its vents. EnviroLink must be mounted below deck in a dry location.

When locating the unit, you should consider:

- Routing of an NMEA 2000 cable (not supplied) to a spare “T-Piece” on the NMEA 2000 network
- Space around the EnviroLink enclosure to allow the NMEA 2000 cable to be comfortably routed
- Easy visibility of the status LEDs
- If you need Wi-Fi reception around the whole boat
- Maintaining the compass safe distance of 0.5m

Installation Step 1 – Mechanical Mounting of the Unit

The EnviroLink can be mounted in any orientation, but we recommend mounting it on a vertical surface with the NMEA 2000 connector pointing down. The EnviroLink enclosure has integral mounting lugs which feature four 4mm fixing holes. We recommend a No.8 wood screw or M4 bolt to secure the unit in place, but please do not apply undue force when tightening which could damage the plastic enclosure, or the unit itself if the mounting surface is not flat.

Unit Dimensions

Installation Step 2 – Connecting to the NMEA 2000 Network

To connect the EnviroLink to an NMEA 2000 network, it will be necessary to fit an NMEA 2000 drop cable with maximum length of 6m (not supplied). EnviroLink has a standard micro M12 NMEA 2000 male connector on its base.

EnviroLink is powered from the NMEA 2000 network and has a LEN of 2.

If you need to create a new NMEA2000 network, then you may wish to consider Digital Yacht's NMEA2000 Starter Kit, that provides all of the cables, connectors and terminators required for a basic NMEA2000 network.

On some "proprietary" NMEA2000 networks, a special adaptor cable will be required from the manufacturer.

- Raymarine SeaTalkNG to NMEA2000 Adaptor Cable Part No A06045
- Simrad Simnet to NMEA2000 Adaptor Cable Part No 24006199

A table showing all the NMEA2000 PGNs (messages) that EnviroLink transmits and receives are shown below. Please note that the mandatory NMEA 2000 bus management PGNs are not listed.

Transmit PGNs List	
PGN No.	**PGN Title**
126983	Alert
126985	Alert Text
126993	Heartbeat
130313	Humidity
130314	Actual Pressure
130316	Temperature, Extended Range

Receive PGNs List	
PGN No.	**PGN Title**
126208	NMEA – Command Group Function
126984	Alert Response
126992	System Time
129029	GNSS Position Data

4. Operation

When powering up, EnviroLink illuminates a series of indicator LEDs through the enclosure lid, see Fig1..

The LEDs illuminate in order; WIFI (Blue), STATUS (Green), WARNING (Yellow) and then ERROR (Red). Then the LEDs will all turn OFF and then the WIFI LED will flash and the STATUS LED will turn ON.

The table below provides a key to what the LEDs mean.

Figure 1

Condition	WIFI LED (Blue)	STATUS LED (Green)	WARNING LED (Yellow)	ERROR LED (Red)
ON (Solid)	Wi-Fi STA Mode Connected	Operating correctly All readings are within normal range	N/A	Error connecting in STA mode, check settings
Flashing	Wi-Fi AP-Mode Active	N/A	Warning a barometric pressure condition has occurred	N/A
OFF	N/A	See other LEDs	Operating correctly All readings are within normal range	No WiFi connection

By default, EnviroLink creates a wireless network (Access Point), with Name (SSID) = “EnviroLink-xxxx” and Password = “PASS-xxxx”, where xxxx is a four digit code, unique to your device. For example, if your EnviroLink creates a wireless network called OneFix-D4F8, then the Wi-Fi password will be PASS-D4F8.

To connect to EnviroLink, you need to scan for wireless networks, find then select it and then enter the default password when prompted. If everything is OK, then your wireless device will show as “Connected with No Internet”.

This is normal as EnviroLink is not a router/gateway, so when connected to it, there is no internet connection. Some operating system; Windows, iOS, Android, etc. may ask you if you wish to stay connected, ensure you say YES to this.

As soon as your wireless device is connected, you should be able to access the EnviroLink web interface by opening a web browser (Safari, Chrome, Firefox, Edge, etc.) and either enter the IP address of the EnviroLink…

http://192.168.1.1

…or if your mobile device supports Bonjour/mDNS you can enter the following URL…

http://EnviroLink.local

…which is useful if you have connected the EnviroLink to another wireless network and don’t know what IP address it has been given.

You should now see the EnviroLink web interface, home page.

The home page gives you access to all EnviroLink functionality; the DATA and SETTINGS pages.

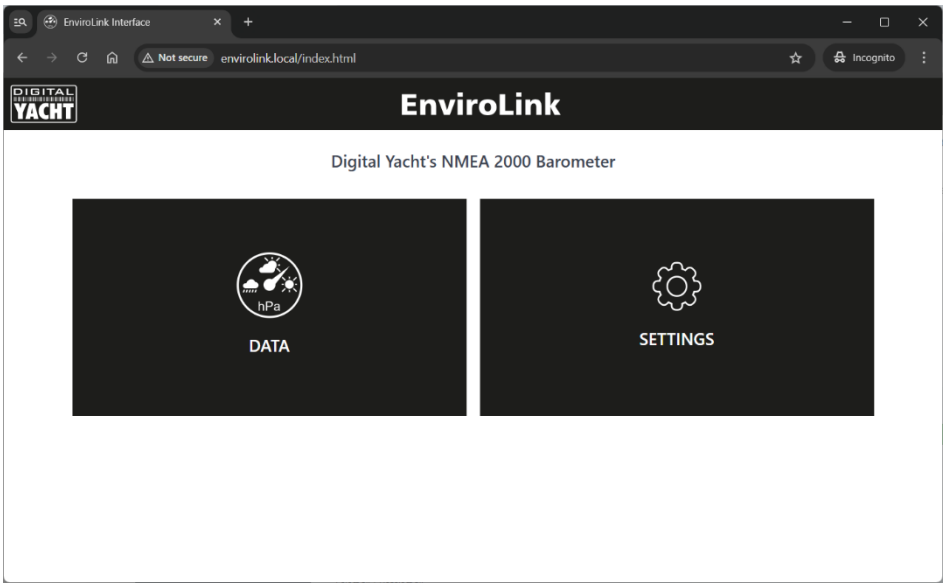

Figure 2

4.1 DATA Page

The DATA page as shown in Fig 2, is where you can display the environmental data that has been recorded over the last 96hrs.

There are three graphs, which are automatically generated and formatted showing the recordings for the period set in the drop-down menu; 24hrs (default), 48hrs, 72hrs or 96hrs.

EnviroLink monitors air pressure, temperature and humidity. All of the logged data can be downloaded in CSV format for importing to a spreadsheet. Simply select the period from the drop-down menu and click the “Download log” button.

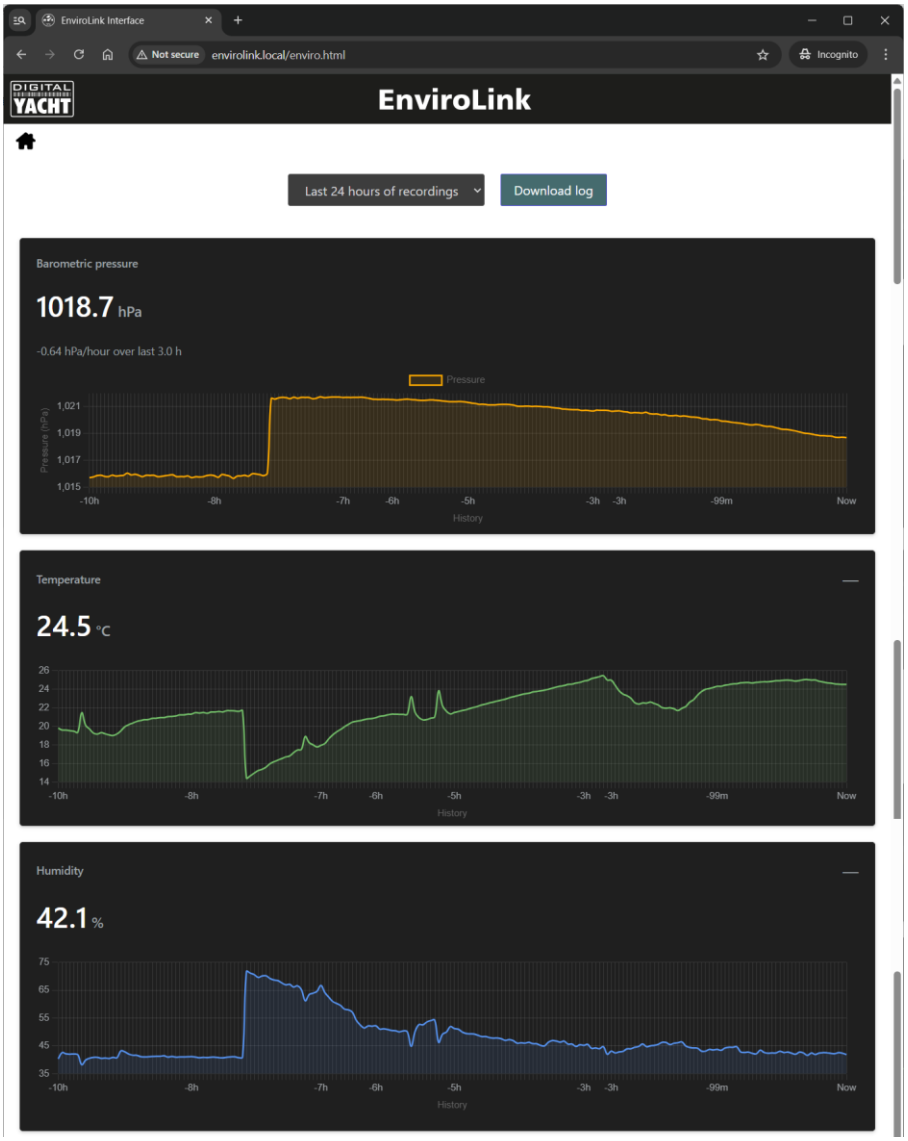

Figure 2

4.3 SETTINGS Page

By default, EnviroLink creates its own wireless access point (AP Mode). On the EnviroLink SETTINGS page, you can configure the wireless network name (SSID) and the wireless password of the network that EnviroLink creates as shown in Fig 3.

Once changed, click on the UPDATE SETTINGS button to save the new settings - NOTE EnviroLink will reboot.

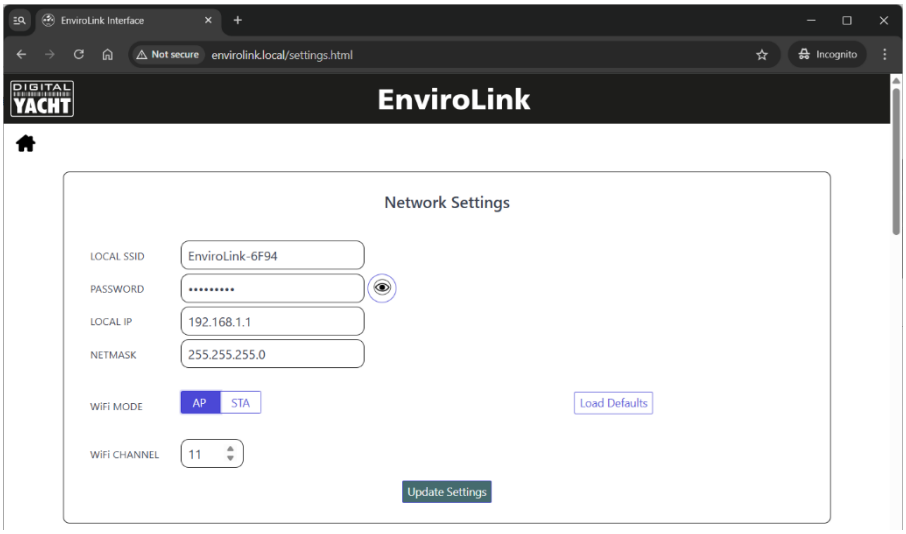

Figure 3

If you already have a wireless router on the boat, you can make EnviroLink join that network, rather than create its own. Click on the STA (Station Mode) button, select the network you want to connect to from the drop-down STATION SSID menu and then type in the wireless password for that network – you can click on the “Eye” icon to see what password you have typed to avoid mistakes (see Fig 4).

Click on the UPDATE SETTINGS button to save the new settings - NOTE EnviroLink will reboot.

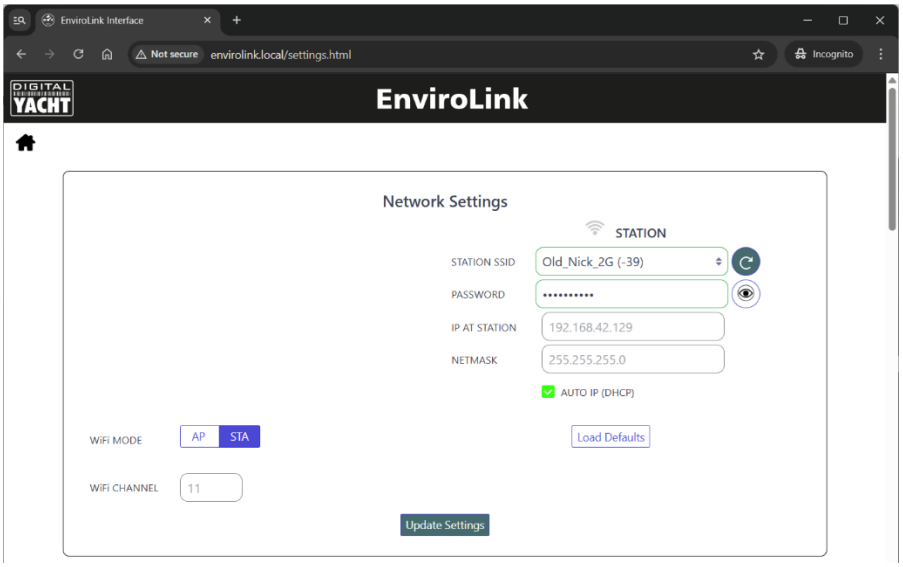

Figure 4

Also on the SETTINGS page is the time zone setting, so you can adjust the GPS time that EnviroLink receives via NMEA 2000, to be local time (see Fig 5).

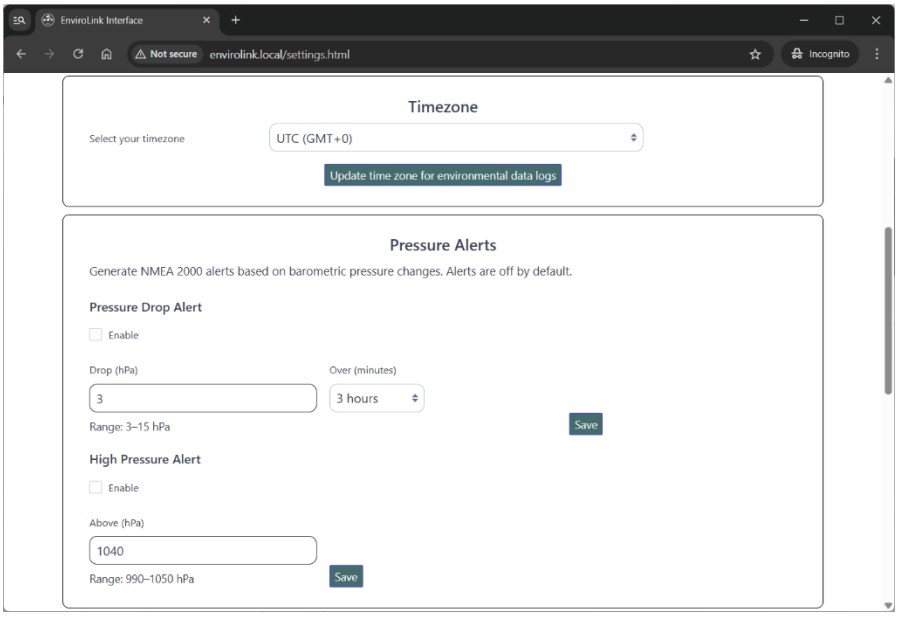

Figure 5

As well as display environmental data, EnviroLink can monitor for barometric changes such as a pressure drop that might indicate a storm is approaching or a high-pressure change promising a period of good weather.

You can set a pressure drop value and the period over which this occurs and also a high pressure value and then click the “Save” buttons to apply these alarm thresholds.

If you have a Garmin MFD that supports NMEA 2000 Alerts or one of Digital Yacht’s NAVAlarm or NAVAlert units that can sound an alarm when it receives an Alert, you can also tick the “Enable” box and EnviroLink will transmit an NMEA 2000 Alert when the condition occurs.

Also on the SETTINGS page are the NMEA 2000 network diagnostic tools; PGN LIST, DEVICE LIST and DATA MONITOR as shown in Fig 6. Clicking on these buttons opens diagnostic pages to view the PGN data on the NMEA 2000 network, list the other devices on the network or monitor and log the raw NMEA 2000 data.

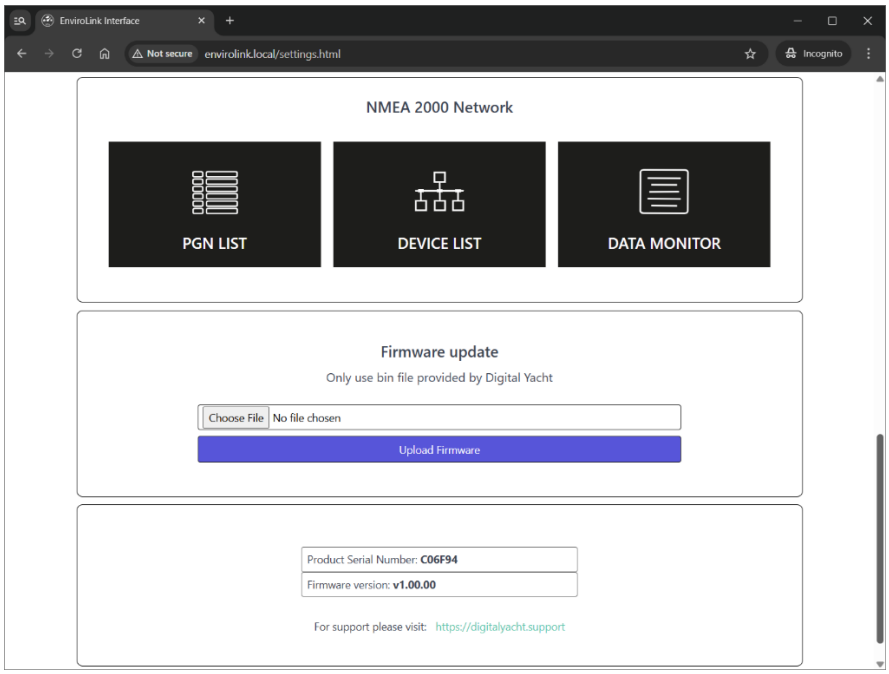

Figure 6

Finally on the SETTINGS page is the firmware update section. Updates to the firmware can be easily done via the web interface. Please monitor our https://digitalyacht.support site for new firmware and all the latest product news on our social media channels.