

Quickstart for Plus Plan Subscription for NMEA 0183 - Connected Instruments

This is the Pathfinder Quickstart for Plus Plan on iPhone and Apple Watch, supporting the following instruments:

- B&G H2000
- B&G H3000
- Non-B&G Instruments via NMEA 0183 Connection

along with your iPhone's GPS, to provide input on your racing starts and course information during your race.

Click here to access the [Pathfinder Basic Plan Quickstart](#). That plan uses your iPhone GPS only and does not provide instrument connectivity.

This Quickstart will show you how to:

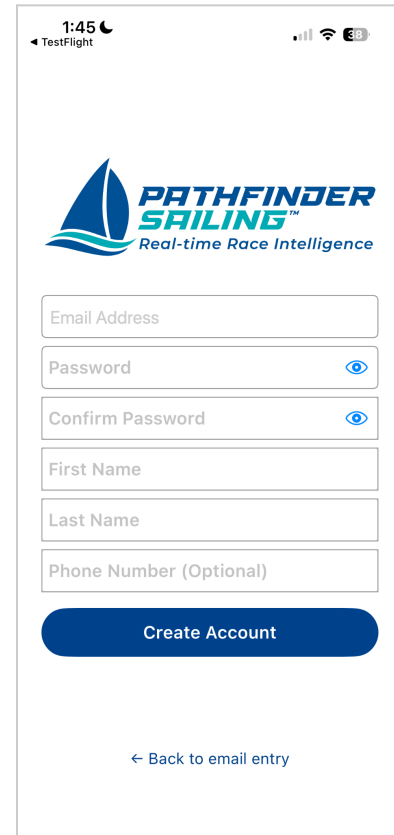
1. Download the App & Create a Pathfinder Account
2. Choose a plan that will bill your credit card after the free 30-day trial
3. Create a NMEA 0183 wifi network with a 3rd-party gateway
4. Create a boat profile and manage your boats
5. Connect to your boat's wifi and Instruments
6. Set up the app on your Apple Watch

Step 1: Download the App & Create a Pathfinder Account

1. Download the Pathfinder Sailing mobile app via the Apple App Store [here](#). After downloading, open the app.
2. Enter your Email address at the prompt and Select 'Continue.'
3. If you already have a Pathfinder account with that email address, you will be prompted for your password

If you are creating a new account, you will be prompted to create a password and enter your name.

Select 'Create Account'

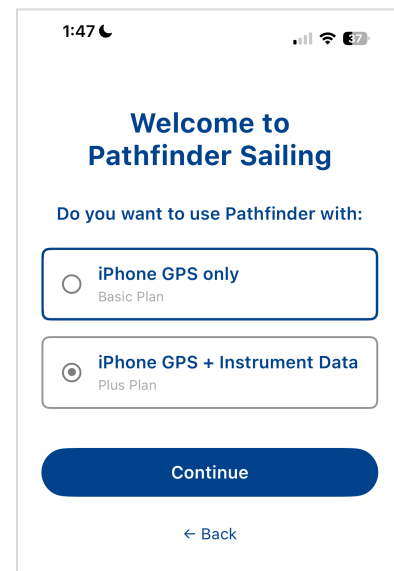


The screenshot shows the registration screen of the Pathfinder Sailing app. At the top, the time is 1:45 and the status bar shows 'TestFlight', signal strength, Wi-Fi, and battery. The Pathfinder Sailing logo is displayed, featuring a blue sailboat icon and the text 'PATHFINDER SAILING™ Real-time Race Intelligence'. Below the logo are several input fields: 'Email Address', 'Password' (with an eye icon), 'Confirm Password' (with an eye icon), 'First Name', 'Last Name', and 'Phone Number (Optional)'. A prominent blue 'Create Account' button is centered at the bottom. A link for '← Back to email entry' is located at the very bottom.

4. Select a plan from the two options. You will not be billed until your free trial ends after 30 days.

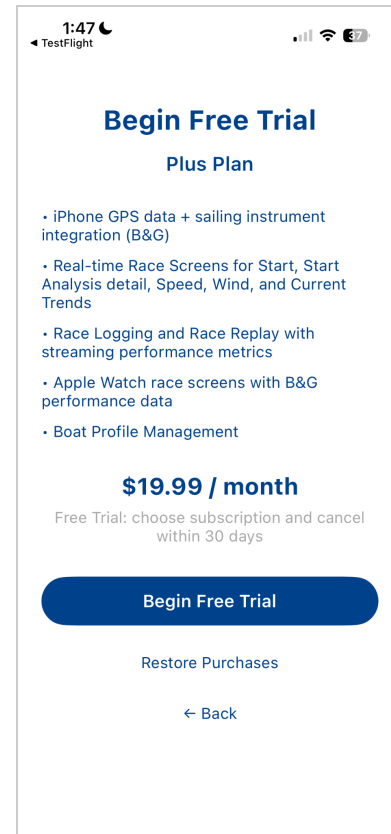
To connect to your B&G instruments, select the Plus Plan: iPhone GPS and Instrument Data, which will stream to your app screens directly from your instruments

Select 'Continue'.



The screenshot shows the plan selection screen of the Pathfinder Sailing app. The time is 1:47. The title is 'Welcome to Pathfinder Sailing'. Below the title, it asks 'Do you want to use Pathfinder with:'. There are two radio button options: 'iPhone GPS only Basic Plan' and 'iPhone GPS + Instrument Data Plus Plan'. The 'Plus Plan' option is selected. A blue 'Continue' button is centered at the bottom. A link for '← Back' is located at the very bottom.

5. Select 'Begin Free Trial' for the Plus Plan and confirm the subscription price that will begin after the 30-day free trial period.



Step 3. Create a boat wifi network

If you have an existing wifi network on your boat, you can skip to Step 6.

If you do not, you will need to purchase an [Actisense WGX-1-ISO](#) NMEA 2000 Wi-Fi Gateway. The gateway will enable the Pathfinder mobile app to connect to your instruments via NMEA over a Wi-Fi network.

[Click here to view the Quickstart pdf and video for Actisense.](#)

Operating Instructions

You can access the [Actisense User Guide](#), and additional help is available via the “Help” menu on the device’s built-in web application.

The green and yellow wires on the ISO port of the gateway are used to connect to the H2000/3000 instrument’s NMEA 0183 output. When powered correctly, the Blue “Power” LED on the gateway will pulse, showing correct operation. The green LED will show that the gateway is receiving data. If the green LED is not lit, the problem can often be fixed by switching wires and changing the polarity.

Connecting to Wi-Fi

The WGX-1-ISO will power up in Access Point mode, and it will broadcast its SSID as “wgx-<serial number>” The serial number and default password can be found printed on the back of the Actisense case. Connect to it using a Web browser on the connected device and type the IP address 192.168.4.1 into the address bar.

Configuring

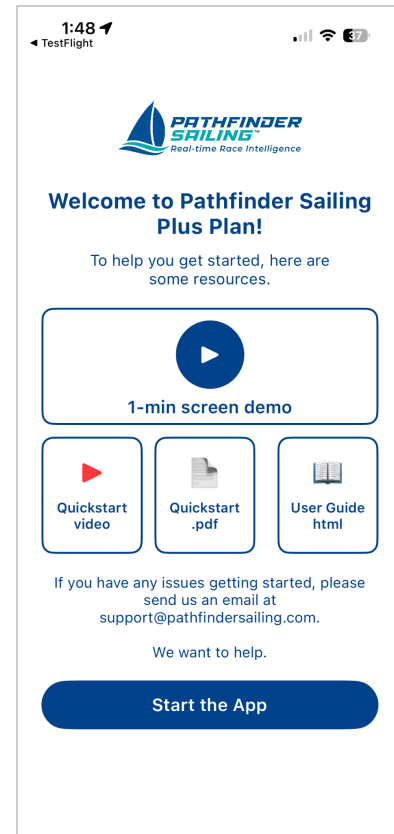
The device can be configured using the built-in web application. The default login Username is “admin” and the default password is printed on the back of the case. The operating mode, routing, and data servers can be configured. The factory default is “convert” mode. Note: The WGX-1-ISO can also be configured to use Client (Station) mode to join an existing Wi-Fi network.

6. After selecting the Plus plan and connecting to the boat wifi, start the Pathfinder App.
7. You will see the Welcome Screen, where you can view a 1-minute screen demo to get a feel for the different screens that are included with your selected plan.

There are also links to Quickstart videos, this Quickstart pdf, and the more detailed User Guide for your plan.

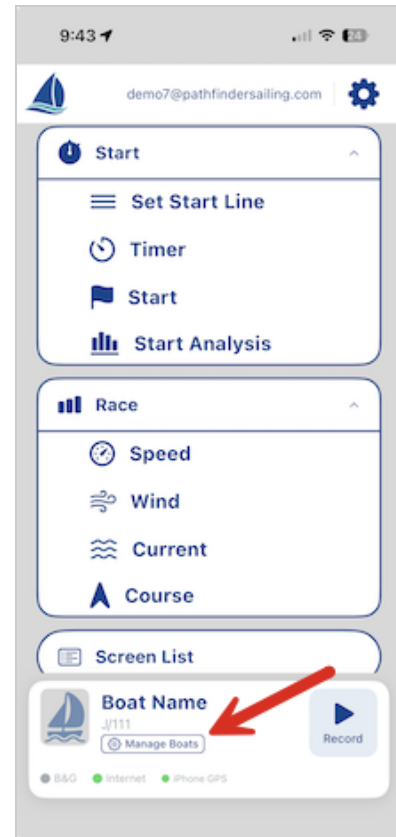
When ready to proceed, click 'Start the App'.

7. You will then be taken to the mobile app Home page.

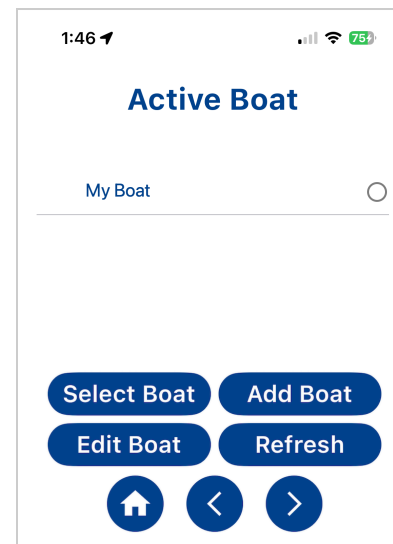


8. Before using the app, it is recommended that you create a boat profile for the boat you will be sailing on.

To create a boat profile, select 'Manage Boats' from the Home screen

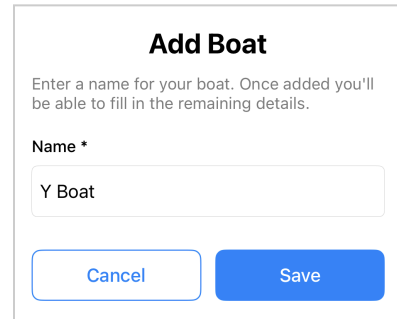


9. The Active Boat screen will show profiles for the boats you sail on. The default 'My Boat' profile will work for you without modifications if you want to use that. If you prefer, you can easily create your own profile.



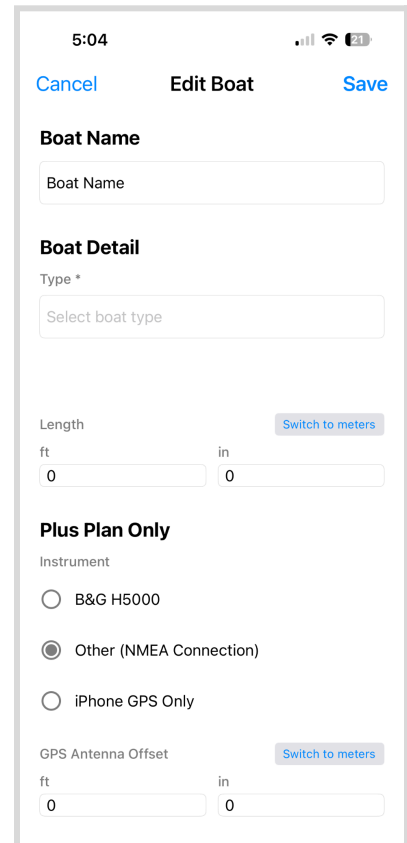
10. To create your own boat profile, select the 'Add Boat' button. Enter the boat name and click Save.

You will advance to the Edit Boat profile screen.



Step 4: Boat Profile screen

- Select your boat type (eg, One-Design class or Custom) from the dropdown and enter your boat length.
- Boat Length: Enter your Boat's Length in meters or feet and inches.
- Select the Instrument 'Other (NMEA Connection)
- If you subscribe to the Plus plan but are not connecting to the instruments on this boat, you can select iPhone GPS Only.
- GPS Antenna Offset is the exact distance from the bow to the GPS antenna's mounting location. This is needed to provide an accurate distance to the starting line while starting. If you are unsure of the offset, you can access it from your B&G instrument display > Settings > Calibration > Position > GPS Bow offset and GPS Centerline offset.



- f. Select a polar, either a standard polar from the polar library or upload a custom polar if you prefer. You can upload as many custom polars as you like.

The screenshot shows a mobile application interface for instrument configuration. At the top, under the heading 'Instrument', there are three radio button options: 'B&G H5000', 'Other (NMEA Connection)' (which is selected), and 'iPhone GPS Only'. Below this is a 'GPS Antenna Offset' section with a 'Switch to meters' button and two input fields: 'ft' with the value '35' and 'in' with the value '2'. The 'Polar' section has a 'Select Polar' label and a text input field containing 'J111'. Below the input field is a blue button labeled 'Upload Custom Polar'. At the bottom right of the screen is a blue 'Done' button. A list of polar options is visible at the bottom of the screen, including 'Farr 60', 'J105', 'J109', 'J111' (highlighted), 'J112Egp Fixed', 'J120', and 'J122'.

Step 5: Connect to your boat's wifi and Instruments

- g. In the Network section on the Boat Profile page, enter the IP Address for your instrument CPU and the port to connect to.

The default address is **192.168.4.1 with a port 60001**. If the address has been changed, you can edit the field. If you are unsure of the address, you can find it using the Actisense web interface.

Click the 'Save' button at the top of the page, and you will be directed back to the Active Boat page. You should see your boat on the list. If not, select 'Refresh', and save your boat as the active boat.

- 11. Back on the Active Boat page, click 'Refresh and then 'Select Boat' to make this your default boat.

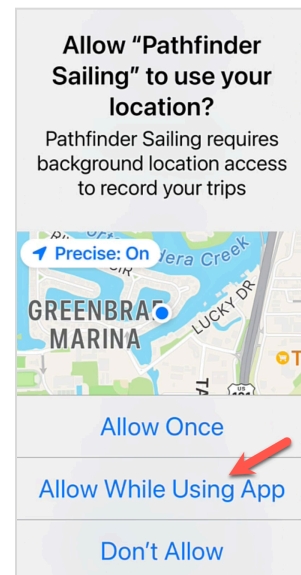
12. Open your iPhone settings and select the boat's Wi-Fi to connect your instruments to the Pathfinder app. Close Settings and return to the app.

Location Permissions

During set-up, you will be asked to allow Pathfinder to use your location. This information is only used to provide race replay.

At the prompt, 'Allow Pathfinder Sailing to use your location,' click on 'Allow while using App.'

At the prompt, 'Allow Pathfinder Sailing' to use your location even when you are not using the app?', select 'Change to Always Allow' to ensure the app can continue logging your sailing and location metrics while you are sailing, but with the app minimized.



This information is used solely to provide race replays and will not be shared outside the Pathfinder apps.

Step 6: Connecting your Apple Watch

The Apple Watch app is a companion to the mobile app and requires it to operate.

If your phone and watch are connected, the watch app will install automatically on your watch when you install



the mobile app on your iPhone. To use the watch app, start the mobile app, press the crown on your watch, and scroll down in your applications and select Pathfinder Sailing.

To optimize your watch settings to maintain focus on the App while racing (and not return to Clock), view the Blog: [Keeping Pathfinder Active on Your Apple Watch](#).

For more detailed information, go to the [User Guide](#) in the website's [Support](#) section.

Other iPhone Settings

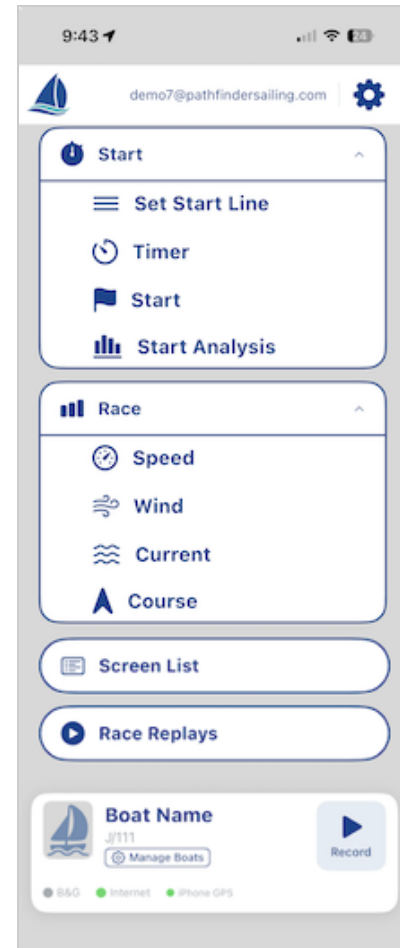
iPhone GPS - Precise Location Settings for GPS Accuracy

To turn on Precise Location on your iPhone, go to Settings > Privacy & Security > Location Services, select the Pathfinder Sailing app, and toggle on the Precise Location option. This allows the app to access your exact location for better accuracy.

On the Water

13. You are now ready to use the app on the water. From the Home Page, you can:

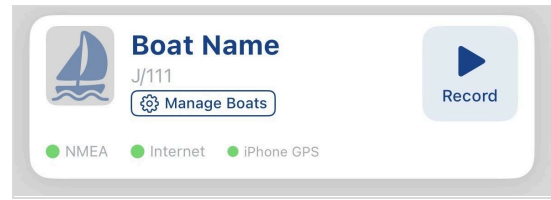
- Set your Start Line ends (also known as pinging)
- Start your Race Timer. Note that starting your race timer will also start logging, so you can view your race track after the race. You can also view the tracks of other boats in your fleet using the Pathfinder app.
- Use the Start screen 'Speed to Start' to hit the start line at full speed
- View your Start Analysis - a real-time screen that shows your speed and distance off the line at the gun. This screen appears automatically 5 seconds after your start to show you how well you started and includes an over-early notification.
- Track your speed over ground (SOG) and course over ground (COG).



If you do not see your Speed, Wind, and Current screens on your Home page, select the 'Home > Screen List' button and add them.

Home Screen Status Card

The card at the bottom of the Home screen shows your boat's name, type, and connection status.



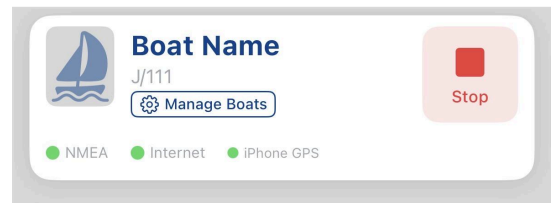
Connection Indicators

A green indicator will show connection status to your B&G Instruments, NMEA, Internet Connectivity, and iPhone GPS.

Boat wifis generally do not provide an Internet connection. If you need to access the Internet while on the water, you may need to briefly turn off your wifi to use the cellular capability on your phone.

Record a Race

You can manually record your sailing track and your performance details by pressing the Record button at any time. After your race, be sure to return to the Home screen and Stop Recording.



After your race, when you have a solid Internet connection, you can 'Upload Race Data' using the button at the top of the screen. This will allow you to replay your race and see other boats in your fleet who also recorded their race. You can also view and compare your performance metrics second by second throughout the race.