Document for retailers

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Frequently Asked Questions
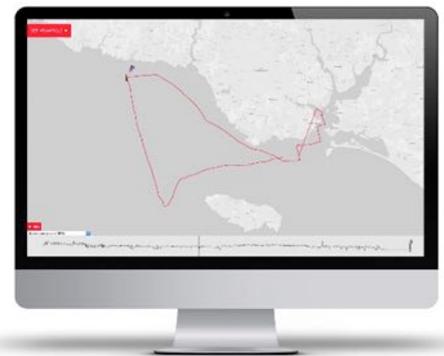
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1 Installation and compatibility

Is my current equipment compatible with the Anemobox?

Yes, if your onboard equipment is using the standard NMEA0183 or NMEA2000 specification, it is compatible with the Anemobox.

My existing navigation system doesn't provide any NMEA output. Can I use Anemomind?

In most of the cases yes, if your existing system provides a non NMEA data output, this output can be transformed into a standardized one. See the examples below.

NKE systems

NKE is fitted with "Topline" proprietary bus.

- *Use the WIFI-NMEA module (réf. NKE : 90-60-508) providing a NMEA0183 output for the Anemobox.*

Old generation Raymarine equipment's

Old generation Raymarine equipment's use the SeaTalk data communication standard (called also SeaTalk1) which is not NMEA compatible.

Use the "SeaTalk NMEA Bridge 32" module of Gadgetpool providing a NMEA 0183 output for the Anemobox

What if I don't have any electronics on my boat?

The Anemobox can be used without any other electronic equipment as it embedded a GPS, an Inertial Measurement Unit (9-dof IMU) and a compass. You only need a 12V battery on your boat.

Taking pictures or videos and linking them to your boat tracks still work perfectly. COG, SOG, HEEL, etc. will be used on data monitors. However, an additional wind sensor is required if you want to have real-time performance information. NMEA2000 compatible instruments can be directly connected to the Anemobox. Such device will soon be available on our shop.

I have a complete navigation system plus a routing software running on a Laptop. What are the benefits of integrating your solution?

Even with a complete navigation system, our solution is highly valuable for

- *Learning performance and improving it*
- *Dealing automatically with ill calibrated instruments (wind sensor, surface speed sensor)*
- *Integrating notes and media in navigation, plus showing navigation and performance history*
- *Sharing navigations with the team or peers*

Do I need to manually calibrate my sensors?

- *No, with our solution you don't need to handle the tedious calibration task again. The data generated by your onboard sensors is automatically recorded and sent online to our algorithms in order to learn about your boat's behavior. The more you sail, the more precise the wind information gets.*

Where should I mount the Anemobox?

You should attach it near your battery, in a safe and unobtrusive place. Note that the Anemobox is waterproof and UV resistant.

I already have a GPS receiver on my boat. Can I connect it on the Anemobox?

Yes, if it is compatible with NMEA 0183 or NMEA2000. The Anemobox will automatically select the best GPS. The other one will be considered as a backup and the Anemobox will automatically switch to it in case of primary GPS failure.

What is the energy consumption of the Anemobox?

The maximum power consumption of the Anemobox is 1.5 W (125mA at 12V) and only requires a 12V battery you probably already have on your boat.

Does it work with 24V batteries?

Yes, the Anemombox is compatible with both 12V and 24V batteries. It includes all necessary components to handle large tension variations, ranging from 9V to 36V DC.

What kind of connectors do I need?

We provide all required connectors for both NMEA0183 and NMEA2000.

Can I use outputs from the Anemobox to feed my existing system?

Yes, but this feature is not available now.

GPS and compass information should be delivered to any existing NMEA compliant systems. Performance information should also be sent to existing displays like Tacktick, Raymarine, etc. Please contact us so we can help you in this task.

Can I get the data generated by the Anemobox on my smartwatch?

This functionality is not implemented yet. Please let us know if you would like to see real-time information on your pebble.

2   Usage, performance and product

During my sailings I have no longer access to internet. Will Anemomind work on real time?

Yes, the internet access is needed to send the navigation data to the web after sailing, and to receive the speed table onboard before sailing. After receiving tables Anemomind work on real time.

How many navigations or what navigation duration can be stored in the Anemobox?

Thanks to our efficient data compression algorithms, the Anemobox can store more than 10,000 hours of navigation and the number of sailing sessions stored in the Anemobox is not limited.

But note that navigation storage is only needed before sending the navigation data to the web after sailing (see the question above).

Can I use multiple smartphones to see real-time information?

Yes, the Anemobox can broadcast real-time information to multiple smartphones at the same time.

Can I use a non-iOS smartphone or tablet?

No, today only iOS devices are supported. But we intend to provide Android compatibility.

Can I get the real-time information without using a tablet or a smartphone?

Unfortunately, for the moment you can only get the real-time information on your smartphone or tablet.

However, we are currently working on sending performance information to existing displays. That would be available for the 2017 sailing season.

What is the performance information and how is it calculated?

The performance information is based on your target VMG (Velocity Made Good): the maximum speed you could achieve under the current wind conditions. The performance information is the ratio between your current speed and the maximum theoretical speed of your boat. Thanks to its high quality sensors and the data logged, the Anemobox considers many metrics for its polar construction.

As the target speed is calculated on a VMG basis, its relevance is better when you are sailing upwind and downwind. The system is implementing Polar construction and will also provide polar performance, i.e. the % performance on a given true wind angle.

How long does it take for Anemomind to learn the performance tables?

The learning process is pretty quick, but needs to experience various wind conditions. After learning, the updated speed tables must be loaded on the Anemobox.

Will I get a routing polar from the system?

No, for the moment, the Anemobox is not yet capable of outputting the routing polar. Further development will made this option available for every user.

What kind of notes can I take while I'm sailing?

Currently you can record:
- sail changes
- text
- pictures
- tops (specific notification at a precise moment during your navigation)
- videos (soon available)

These notes are stamped with the exact time and position so you know exactly *when and where they were taken along the GPS track.*

What's in the Anemobox?

In the Anemobox we got a powerful Intel processor, Wifi and Low Energy Bluetooth communication device, a 10Hz GPS, 3 accelerometers, 3 gyroscopes, 3 magnetometers and enough memory to store more than 10,000 hours of navigation data.

Where the Anemobox is manufactured?

The Anemobox is designed and manufactured in Switzerland.

3 Purchasing and boat transfer

Do I need to purchase separately the Anemobox, the app and a yearly cloud service?

No, the Anemobox, the application and the cloud service come in an All-in-One pack.

Does the Anemobox come with a subscription to the cloud service?

Yes, when you buy the Anemobox, you get one free year of Premium membership to the cloud service! After one year, the membership stops and is not automatically renewed but some free services will be provided. Please refer to our cloud service offer to have more details.

I sail on multiple boats. Can I use one unique Anemobox on different boats?

The Anemobox follows the "one boat – one box" concept. This is coherent with the idea of learning the performance of a specific boat.

I have a new boat. Do I have to buy a new Anemobox?

No, and this the exception of our "one boat – one box" concept. After selling your boat, you can transfer your Anemobox to your new boat. At this moment you have to contact Anemomind to reset the learnings.

I sell my boat with its Anemobox. What do I have to do?

Please contact us in order to configure your account and the account of the buyer according to the new situation.

4 About the company

Who is Anemomind?

Anemomind is a Swiss based company, a spin off from the Ecole Polytechnique Fédérale de Lausanne (EPFL). Anemomind was co-founded by four former researchers of EPFL.

Unsatisfied by existing electronic equipment's, they combined their passions for sailing and computing to invent the Anemomind solution to meet their needs.