

CALYPSO CUPS 4.0 USER MANUAL



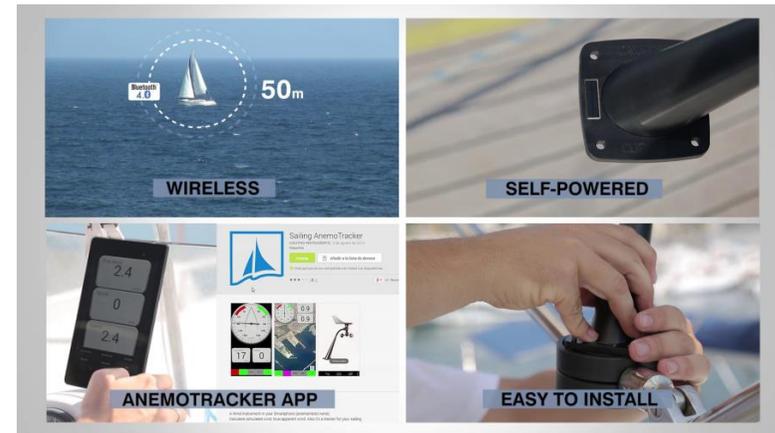
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Version:
VCC.001.2015

1. Product overview

Congratulations, you are the owner of a brand new CUPS 4.0 Wind Equipment. A wireless (BLE) and self-powered (solar) anemometer that turns your Tablet/Smartphone into a wind instrument and data logger.



No wiring required, making CUPS 4.0 light and easy to install. The free app ANEMOTRACKER, receives the data and displays real/apparent wind speed/direction and many more variables.

2. Package Content

The package contains the following:

- Wind Vane
- Wind Cups.
- Arm (base with solar cell included).



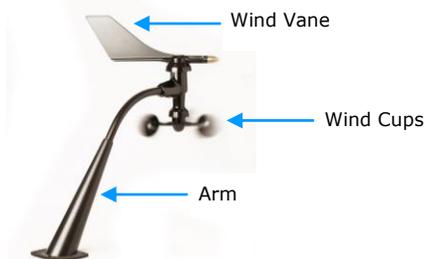
- Hardware kit (hex nuts, 4xM5 stainless steel allen screws and an allen Wrench for tiny securing screws on vane and cups)
- Rail Mount (sold separately with 8 stainless steel hex nuts and 4 allen screws).
- Mast Mount (sold separately).
- 2 additional stainless steel M5 screws are also supplied when the two mounts are purchased so they can be assembled together.

3. Assembling CUPS 4.0

3.1 Attach the Vane and the Cups

1. Tighten the set screw in the wind vane with the allen wrench (provided) after sliding the wind vane onto it's shaft.
2. Push the wind cups onto the wind cup's shaft as far as possible. Cups position is irrelevant.
3. Use the allen wrench provided to tighten the set screw on the side of the wind cups.
4. Ensure both the vane and the cups are tighten enough so they can not be released from their attaching shafts.

There is no need to calibrate CUPS 4.0



If no mount is acquired, the CUPS base must be directly attached to a solid and rigid horizontal surface. Use the provided 4xM5 stainless steel allen screws and nuts to mount CUPS to that horizontal surface. Make sure the entire surface of the CUPS' base is horizontal and even contact is made among the two surfaces (cups base and mounting surface). Any other assembly (contact asymmetry, straps, different bolting solutions, etc...) will void the guarantee.

3.2 Installing the Rail Mount (sold separately)

1. Take both halves and embrace the rail (fits 25 mm/ 1"). Slotted half facing up.
2. Insert the long allen screws provided through the four holes in the base. This screws are installed when you receive the product. Take them off and re-assembly the mount once it is positioned on the rail.
3. Slide the hex nuts onto the allen screws and tighten them using an allen wrench (not provided). Make sure the rail mount is horizontal before tightening the screws.
4. Place the anemometer arm over the base. The four base holes must match the square nuts inside the slot so the screws can be tightened. Make sure all four nuts are properly tightened and far from the slot entry to guarantee a secured joint. If this condition forces a minor misalignment, please use the app alignment feature to set a new direction zero.



3.3 Installing the Side/Front Mount (sold separately)

Install the mast mount either front or sideways, so CUPS 4.0 points always at the boat bow.

1. Take the mount with the base facing up and the vertical side against the mast.
2. Use a marker to paint through the vertical holes on the mast's surface to get references for drilling.
3. Attach the mount to the mast by using the 5 mm rivets.



Note: We recommend use the right rivets (i.e. monel) and pasivation paste (i.e. Duralac) to minimize galvanic corrosion.

4. Use the 4xM5 allen stainless steel screws and nuts provided with CUPS 4.0 to attach it to the upper flat side of the mast mount.

3.4 Installing the Vertical Rail Mount

The Mast and the Rail Mount can also be installed together for Maximum Flexibility (not horizontal rails).

1. Repeat steps 1 to 3 from chapter 3.2.
2. Take the Mast Mount and match the holes in its vertical side with the rail mount slot.

Note: Square nuts will travel along the slot. Insert and tighten the screws one by one. Remember not to screw them very tight until the arm is aiming at the bow.

3. Use the allen screws and the square nuts provided to attach both items using the slot (it allows 360° rotation).
4. Once the mast mount is placed correctly tighten the screws.
5. Repeat step 4 from chapter 3.3.



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4. Installing APP and testing the unit

Follow the next steps:

- * Make sure your device is BLE compatible. CUPS 4.0 Works with Android 4.3 or 4.4 or iOS devices (4s, iPad2 or beyond).
- * Download and install Anemotracker on your device from Google Play or App Store.
- * Once the app is installed start it and open the menu by a long press on the menu icon—the three vertical dots at the right lower end.
- * Press "Search Sensor" on the Anemotracker app and all CUPS 4.0 within the range should show up identified by a unique number. Select your device and connect.

If your device connects with the CUPS 4.0 correctly, continue with the normal installation. If not, please read next chapter.



4.1 Troubleshooting

Your device is compatible with the CUPS 4.0 but you can not connect?

- * Make sure **BT (Bluetooth) mode is running** on your smartphone, Tablet or PC.
- * Make sure **CUPS 4.0 is not on hibernate mode** by rotating both Cups and Vane. The device hibernates after a few minutes static (both for energy saving and transportation purposes).
- * If the device has not been exposed to any source of light for an extended period of time it might be necessary to keep it under direct sunlight for a few hours. A cloudy day will work too.
- * Make sure **no other device is linked to your CUPS 4.0**. Each unit can only be connected to a single device at a time. As soon as it gets disconnected, CUPS 4.0 is ready to link to any other device with the Anemotracker app installed.

For further information please contact Calypso Technical Support

DISCLAIMER:

This product is for leisure purposes exclusively. Any wrongful use given by the user will not incur in any responsibility of Calypso Instruments. As well, any harm caused to CUPS 4.0 by a mistaken use will not be covered by the guarantee. Using assembly elements different from those delivered with the product will void the guarantee.

info@calypsoinstruments.com or visit www.calypsoinstruments.com.

Technical Data:

Operating temperature	-20° to +65°C
Wind Direction	
Display resolution	1°
Accuracy	±3°
Wind Speed	
Range	1 to 100 mph, 1 to 161 kph, 1 to 87 knots, 0.5 to 45 m/s
Accuracy	±2 mph (3 kph, 2 knots, 1 m/s) or ±5% whichever measurement over 20 m/s
Autonomy	
In dark	Standby mode up to 10000 h (estimated); Operation mode up to 2000 h (estimated)
	<i>Solar replenishment to full charge up to 100h.</i>
Range	up to 50 m in open space depending on the next parameters:
	- Direct visibility.
	- Interferences.
	- Receiving Device's power
Weight	325 gr (neither rail nor mast mount included)





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