

Calypso Instruments CMI1006

Calypso Instruments Portable Ultrasonic Wind Sensor (Model CMI1006) User Manual

Accurate Wind Measurement for Sailing and Outdoor Activities

1. PRODUCT OVERVIEW

The Calypso Instruments Portable Ultrasonic Wind Sensor (Model CMI1006) is a self-powered, wireless anemometer designed for accurate measurement of wind speed and direction. Utilizing ultrasonic technology, it provides reliable data for various applications, including sailing and outdoor use. The device features a solar panel for continuous charging and connects via Bluetooth for data transmission to compatible applications.



Image: Key features of the Calypso Instruments Portable Ultrasonic Wind Sensor, emphasizing its solar power, Bluetooth connectivity, and wireless operation.



Image: The compact Calypso Instruments Portable Ultrasonic Wind Sensor held in a hand, illustrating its portable design.

2. WHAT'S IN THE BOX

Upon unboxing, verify that all components are present:

- Calypso Instruments Portable Ultrasonic Wind Sensor (Anemometer)

3. SETUP AND INSTALLATION

The CMI1006 sensor offers flexible mounting options. Ensure the sensor is positioned where it has an unobstructed view of the wind and direct sunlight for optimal solar charging.

3.1. Mounting Options

The sensor features a standard thread for various mounting accessories. Below are examples of common mounting methods:

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Video: Demonstrates how to assemble the Calypso Instruments Portable Ultrasonic Wind Sensor with a float accessory, suitable for water-based applications.

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Video: Illustrates the assembly of the Calypso Instruments Portable Ultrasonic Wind Sensor with a suction cup mount, ideal for temporary or smooth surface installations.

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Video: Shows the Calypso Instruments Portable Ultrasonic Wind Sensor being attached to a tripod, providing a stable base for land-based measurements.



Image: The wind sensor mounted on a pole, illustrating a common setup.

4. OPERATING INSTRUCTIONS

The CMI1006 sensor operates by transmitting wind data wirelessly via Bluetooth to a compatible device running a dedicated application.

4.1. Bluetooth Connection

1. Ensure the wind sensor is exposed to light to activate its solar charging and power it on.
2. Download a compatible application (e.g., Anemotracker, Sailmon MAX, Vakaros ATLAS 2, FastSkipper) from your device's app store (iOS or Android).
3. Enable Bluetooth on your smartphone or tablet.
4. Open the chosen application and follow its instructions to scan for and connect to the Calypso Instruments sensor. The sensor should appear as a discoverable Bluetooth device.
5. Once connected, the application will display real-time wind speed and direction data.



Image: Various displays of the Calypso Instruments application showing real-time wind data.

FREE ANEMOTRACKER APP

WIND SPEED & DIRECTION REAL TIME CHARTS

Available for iOS and Android users.
Compatible with Garmin Connect.



connect IQ
powered by Garmin

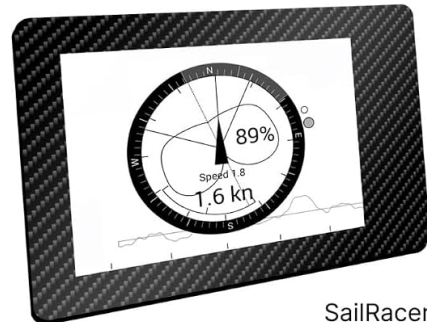


Image: The Anemotracker app displaying wind speed and direction, compatible with Garmin Connect.

COMPATIBLE DISPLAY APPS



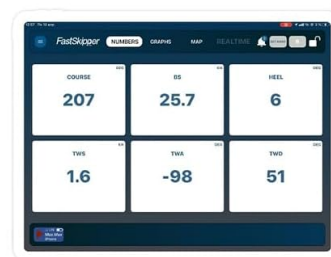
Sailmon MAX



SailRacer



Vakaros ATLAS 2



FastSkipper

Image: Examples of compatible display applications for the wind sensor.

5. MAINTENANCE

The Calypso Instruments Portable Ultrasonic Wind Sensor is designed to be weather-resistant and self-powered, requiring minimal maintenance.

- **Cleaning:** Periodically wipe the sensor's exterior with a soft, damp cloth to remove dirt or salt residue, especially after use in marine environments. Ensure the solar panel is clean for efficient charging.

- **Storage:** When not in use for extended periods, store the sensor in a cool, dry place. While solar-powered, prolonged storage in complete darkness may deplete the internal battery.
- **Inspection:** Regularly check the mounting points and the sensor body for any signs of wear or damage.

6. TROUBLESHOOTING

If you encounter issues with your Calypso Instruments Portable Ultrasonic Wind Sensor, refer to the following common troubleshooting steps:

- **Sensor Not Connecting via Bluetooth:**
 - Ensure the sensor is exposed to light to activate it.
 - Verify Bluetooth is enabled on your receiving device (smartphone/tablet).
 - Move closer to the sensor to ensure you are within Bluetooth range.
 - Restart your receiving device and the application.
 - Check if the sensor's internal battery is sufficiently charged by exposing it to strong light for several hours.
- **Inaccurate Readings:**
 - Ensure the sensor has an unobstructed view of the wind. Obstacles can cause turbulence and affect accuracy.
 - Verify the sensor is mounted level and stable.
 - Clean the ultrasonic transducers on the sensor's underside to remove any debris that might interfere with readings.
- **App Issues (Crashing/Not Loading):**
 - Ensure your application is updated to the latest version.
 - Check your device's operating system for available updates.
 - Try using a different compatible application to rule out app-specific issues.

7. SPECIFICATIONS

Feature	Detail
Model Number	CMI1006
Power Source	Solar Powered
Connectivity Technology	Bluetooth
Sensor Technology	Ultrasonic
Special Features	Weather Resistant, Wireless
Material	Plastic Metal
Product Dimensions	2.24"D x 2.76"W x 2.24"H
Item Weight	5.3 ounces
Upper Temperature Rating	50 Degrees Celsius

Temperature Accuracy	1 degrees_celsius
Color	Black

8. WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries regarding your Calypso Instruments Portable Ultrasonic Wind Sensor, please visit the official Calypso Instruments website or contact their customer service directly.

Official Website: www.calypsoinstruments.com