



<b>Product Name</b>	<b>GAOTek Marine Equipment Anemometer</b>
<b>Product SKU</b>	<b>GAOTek-ATI-115</b>
<b>Product URL</b>	<a href="https://gaotek.com/es/product/gaotek-marine-equipment-anemometer/">https://gaotek.com/es/product/gaotek-marine-equipment-anemometer/</a>

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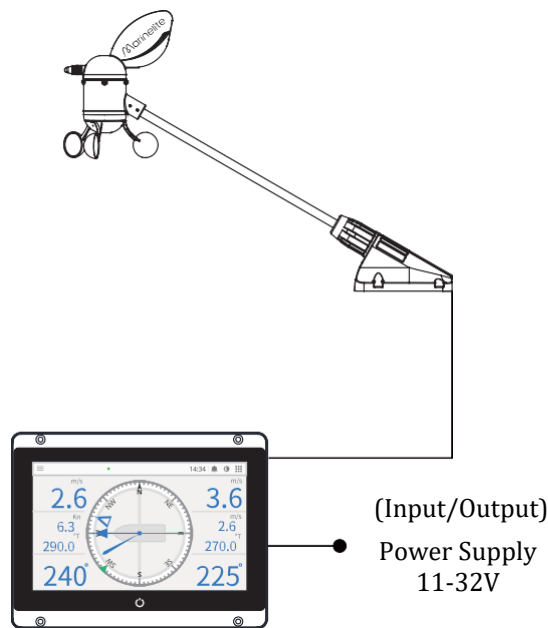
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## GAOTek Marine Equipment Anemometer

### 1. Introduction

GAOTek marine anemometer equipment specially designed for ships. It belongs to the type of wind-driven rotary shaft and meets the performance and functional requirements of ISO international standards.



The sensor shell has the characteristics of corrosion resistance, weatherproof, long-life cycle, Compact and easy to install, suitable for all kinds of ships, especially for high-speed vessels such as speedboats. Using absolute encoder sensor, the acquisition is more accurate.

The display adopts a 7-inch full-touch high-definition LCD screen, which is beautiful in design and easy to operate. The interface design adopts the international professional ship design style, with three display modes of real wind speed and direction, relative wind speed and direction, and

ground wind speed and direction, which can be selected flexibly. Sunny, cloudy, dusk, and night 4 color matching modes, which have comfortable visual effects in different bright environments.

The automatic switching mode can automatically switch the mode according to the sunrise and sunset time, and can also set the switching time according to the needs. Multi-channel input and output, can be connected to speed log, satellite compass, GNSS antenna, etc., and provide standard wind direction and wind speed data for other navigation equipment.

IR remote control for quick operation of brightness, page, mode, lock screen, etc. (optional function) The sensor shell has the characteristics of corrosion resistance, weatherproof, long-life cycle, Compact and easy to install, suitable for all kinds of ships, especially for high-speed vessels such as speedboats. The anemometer is composed of a display and a sensor. After the connection between the host and the sensor is completed, the wind direction calibration needs to be performed.

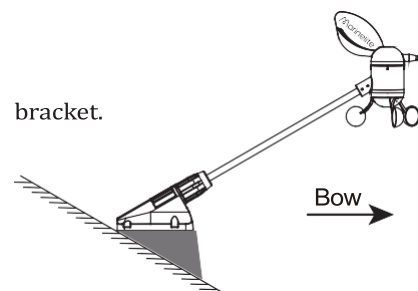
## 2. Installation

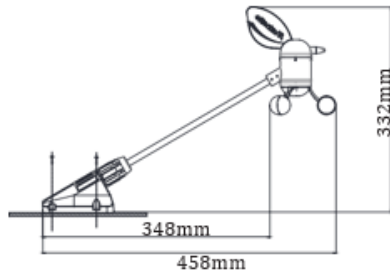
GAOTeK anemometer is composed of a display and a sensor. After the connection between the host and the sensor is completed, the wind direction calibration needs to be performed.

### 2.1 Sensor Installation

1. Keep the sensor level by placing the threaded end of the sensor mounting fixing towards the bow and placing a filler block on the base of the mounting
2. Lock the fixings to the top of the mast with the 4 fixing screws.

Note: The sensor installation position should avoid the radar antenna transmitting beam to avoid interference





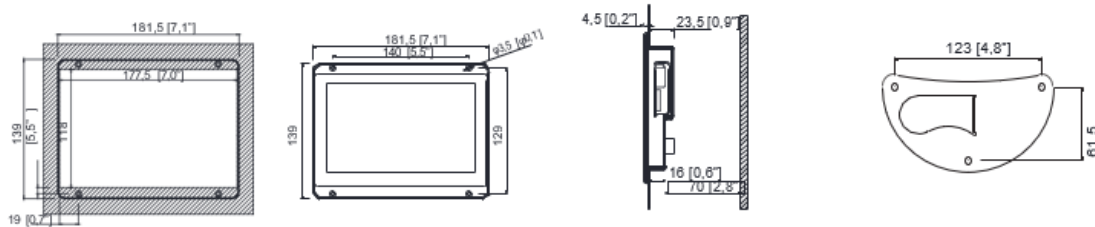
## 2.2 Display Installation

The display can be embedded, hanging, or desktop installation. For desktop and hanging installation, it is recommended to use the bracket (optional) provided by the manufacturer.

### Display Installation Precautions

1. The instrument should avoid direct sunlight and should avoid shock and vibration.
2. The power supply should use a regulated power supply of 24V to avoid excessive voltage and burn the machine.
3. The main instrument should produce electromagnetic radiation equipment, such as motors and generators.

### Installation Dimension Drawing:



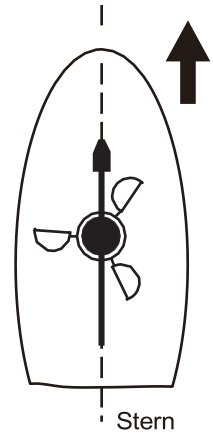
Flush mount

Hanging or Bracket mount

### 2.3 Calibration Instructions

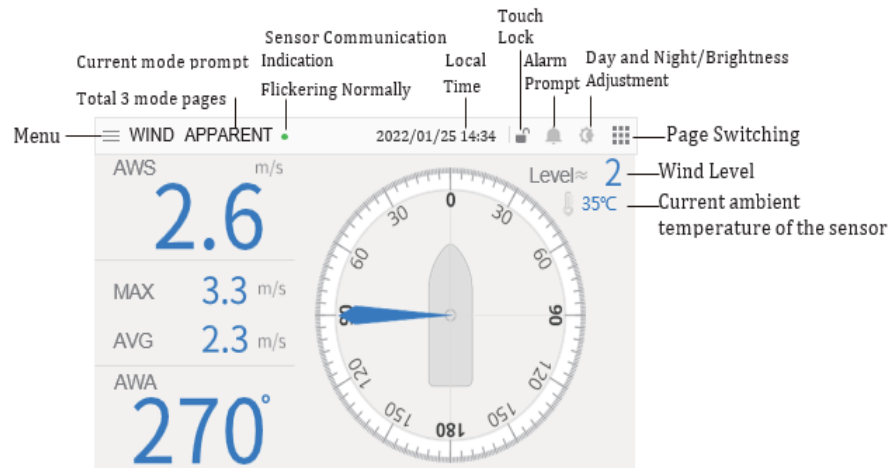
The steps for wind direction calibration as follows:

1. After the display and sensor are installed, press the power switch key on the display to turn on.
2. Ask the assistant to climb the mast to straighten the wind vane arrow, pointing to the bow (directly ahead)
3. Select the wind direction calibration in "Function" in the menu, when the wind vane points to the bow, click the zero button to complete the wind direction calibration

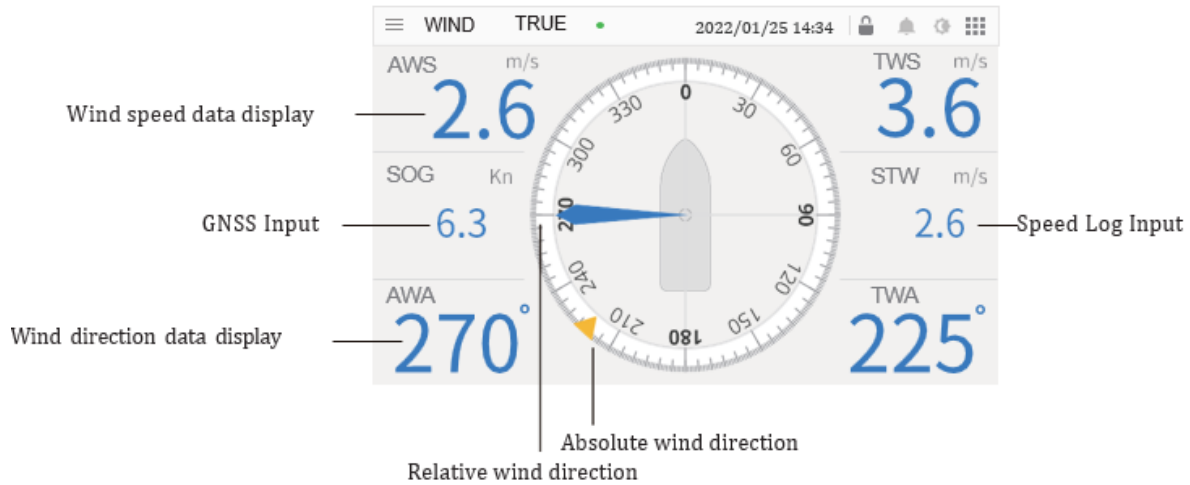


## 3. Display

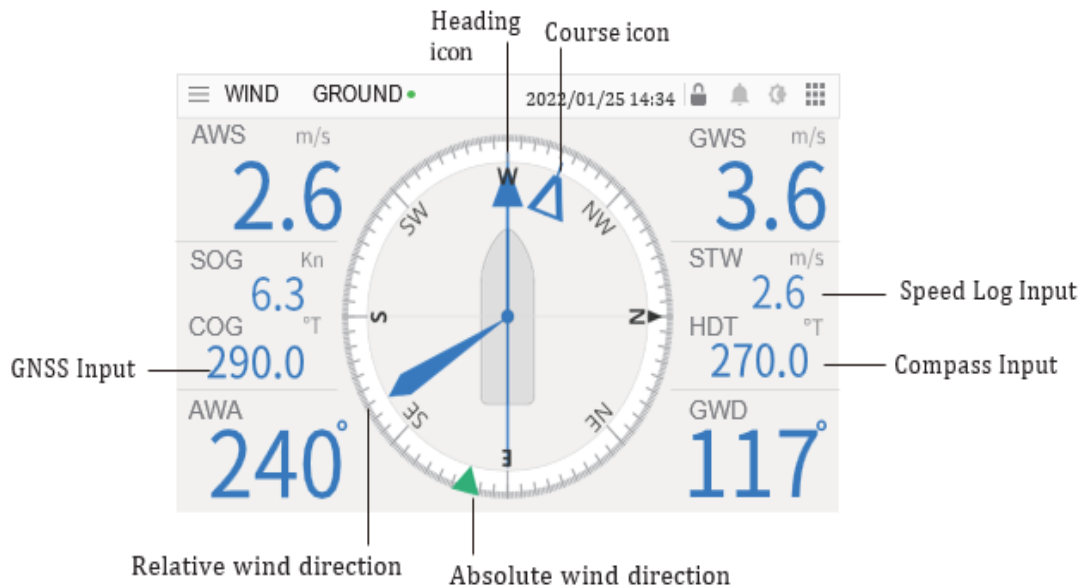
### 3.1 Relative Mode (Wind Speed And Direction Measured by The Sensor)



### 3.2 Absolute Mode (Wind Speed And Direction Relative To The Bow)



### 3.3 Ground Mode (Real Wind Speed)





## 4. Instructions

### 1. Turn On/Off

The monitor is a touch screen, touch the power button to turn on the power; touch it again to turn off. After display is turned on, it will be automatically powered on when the power supply is off suddenly and powered on again.

### 2. Day And Night Brightness Adjustment

Click on the [Day/Night/Brightness Adjustment] button at the top right corner to select the brightness adjustment and day/night mode switch. The brightness is divided into 8 levels, each day and night mode corresponding to the brightness are independent; The day and night modes are divided into 4 color matching modes: sunny, cloudy, dusk and night, and can be switched manually, automatically at sunrise and sunset, or automatically at a customized time according to your needs.

### 3. Page Mode Switch

Click the [Page Mode] button at the top right corner to switch the three display pages of ground mode, relative mode and absolute mode according to the usage.

### 4. Alarm Settings

The alarm supports the maximum wind speed alarm, the minimum wind speed alarm, and the wind direction change alarm.

Maximum/minimum wind speed alarm: when the measured relative wind speed value is greater than/smaller than the set wind speed alarm value, the alarm will be issued after 30s;

Wind direction change alarm: when the measured relative wind direction value change value is greater than the set wind direction change alarm value, the alarm will be issued after 30s;

When the alarm is triggered, the buzzer will sound, the [Alarm Prompt] icon at the top right corner will be indicated in orange, and the numbers of relative wind speed or wind direction will





flash alternately in orange.

Click [Alarm Prompt] to enter the alarm list and display the currently triggered alarms. Click ACK to answer or to silence the buzzer. When the condition that triggers the alarm disappears, the alarm signal returns to normal.

### **5. Average Time**

Set the calculation period for the maximum wind speed and average wind speed. Setting range: 1min, 2min, 5min and 10min, factory setting: 10min.

### **6. Communication Settings**

Communication settings can set the baud rate of the currently selected port, the switch, type, version, frequency, etc. of the output statement.

Note:

1. The greater the number of selected statements or the higher the frequency of statements, the higher the baud rate is required. When the total number of selected statements or frequencies reaches the current port The total amount of transmission at the baud rate, no other statement can be selected.
2. Except the MWD and MWV statements, the rest of the statements are forwarding output, and the output baud rate is recommended to be lower than its input baud rate.

### **7. Data Source Settings**

The use of external input data requires port selection in System Settings -> Port selection in Data Source Settings, and the data used in the calculation will be taken from the corresponding data source port. After accessing the data, please set it according to the type of externally connected data.