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› [AOPUTTRIVER](#) /

› AOPUTTRIVER Digital Anemometer AP-866A User Manual

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Model: AP-866A

INTRODUCTION

The AOPUTTRIVER AP-866A Digital Anemometer is a versatile handheld device designed for accurate measurement of wind speed, wind temperature, humidity, and dew point. It also features air flow (CFM) measurement capabilities, a backlight LCD display for easy reading, and USB connectivity for data transfer to a PC. This manual provides detailed instructions for the proper use, setup, and maintenance of your anemometer.

PACKAGE CONTENTS

Please check the package carefully to ensure all items are present:

- 1 x Digital Anemometer (AP-866A)
- 1 x User Manual
- 1 x Protective Bag
- 1 x USB Cable
- 1 x Software Disc
- 1 x Lanyard
- 2 x 1.5V (AAA) Batteries

PACK



Image: Contents of the AP-866A package.

PRODUCT FEATURES

- High Precision Measurement: Wind speed, temperature, humidity, and dew point.
- Air Flow (CFM/CMM/CMS) Measurement: Range up to 999900 m³/min.
- Multiple Wind Speed Units: mph, ft/min, km/h, m/s, knots.
- Temperature Units: Celsius (°C) / Fahrenheit (°F) selection.
- Data Hold Function: Freezes the current reading on the display.
- MAX/MIN/AVG Modes: Displays maximum, minimum, or average readings.
- Backlight LCD Display: Ensures readability in low-light conditions.
- USB Connectivity: Transfer and analyze data on a PC (Excel or Txt format).
- Auto Power Off: Saves battery life after 10 minutes of inactivity.
- Low Battery Indication: Alerts when batteries need replacement.
- Wind Chill Indication.
- Barometer Indication.



Image: AP-866A dimensions and feature icons.

SPECIFICATIONS

Parameter	Value
Wind Speed Range	0.3 - 30 m/s, 0.67 - 67.1 mph
Wind Temperature Range	-10°C - 45°C (14°F - 113°F)
Relative Humidity	5 - 95% RH
Dew Point	0°C - 50°C (32°F - 122°F)
Wind Flow Range	0 - 999900 m³/min
Accuracy of Wind Speed	+/- 5% of readings
Accuracy of Temperature	+/- 2°C (35.6°F)
Resolution	0.2 mph, 32.36°F, 0.1% RH

Power Supply	2 x 1.5V AAA Batteries
Product Dimensions (L x W x H)	16.51 x 8.51 x 3.81 cm (6.5 x 3.35 x 1.5 inches)
Item Weight	306.17 g (10.8 Ounces)
Material	Polycarbonate (PC)

SETUP

1. Battery Installation

1. Locate the battery cover on the back of the anemometer.
2. Open the battery cover by sliding it or unscrewing if applicable (refer to diagram).
3. Insert two 1.5V AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.

2. Device Overview

Familiarize yourself with the components and buttons of the anemometer:



- ① Fan
- ② LCD
- ③ Power switch
- ④ "HOLD/MODE"
- ⑤ "FUNC"
- ⑥ "☀ /USB"
- ⑦ "UNIT"
- ⑧ Maximum/Minimum button
- ⑨ Fan retaining bolt hole
- ⑩ Transducer air vent
- ⑪ Battery housing cover retaining bolt hole
- ⑫ Battery cover
- ⑬ Connection hole for fixing measurement bracket



Image: Labeled diagram of the AP-866A anemometer components.

- 1. **Fan:** Rotates to measure wind speed.
- 2. **LCD:** Liquid Crystal Display for showing readings.
- 3. **Power switch:** Turns the device on/off.
- 4. **"HOLD/MODE" Button:** Used to hold data or switch measurement modes.
- 5. **"FUNC" Button:** Used for function selection.
- 6. **"☀/USB" Button:** Activates backlight and USB connection.
- 7. **"UNIT" Button:** Changes measurement units.
- 8. **"MAX/MIN" Button:** Displays maximum, minimum, or average values.
- 9. **Fan retaining bolt hole:** For securing the fan.
- 10. **Transducer air vent:** For environmental sensing.
- 11. **Battery housing cover retaining bolt hole:** For securing the battery cover.
- 12. **Battery cover:** Access to battery compartment.
- 13. **Connection bracket:** For fixing measurement bracket.

1. Power On/Off

- Press the **Power switch** button to turn the anemometer on.
- To turn off, press and hold the **Power switch** button. The device also features an auto power-off function after 10 minutes of inactivity to conserve battery.

2. Changing Measurement Units

- To change wind speed units (m/s, km/h, ft/min, knots, mph), press the **UNIT** button repeatedly until the desired unit is displayed.
- To switch between Celsius (°C) and Fahrenheit (°F) for temperature, press the **FUNC** button.

3. Data Hold, MAX/MIN/AVG

- **Data Hold:** Press the **HOLD/MODE** button briefly to freeze the current reading on the display. Press again to release.
- **MAX/MIN/AVG:** Press the **MAX/MIN** button repeatedly to cycle through Maximum, Minimum, and Average wind speed readings.

4. Backlight

- Press the ***/USB** button briefly to turn the LCD backlight on or off.

5. Air Flow (CFM) Measurement

1. Press the **FUNC** key to make "AREA" display on the screen.
2. Use the **MAX/MIN** and **UNIT** keys to adjust the area value and unit (m², ft²).
3. After adjusting the area unit, press the **MAX/MIN** key. An audible buzz will confirm that the area input is complete and settings are saved.
4. The device will now display air flow readings based on the set area.

AIR VOLUME UNIT:

CFM	0-99990	(Area)0-9.999ft ²
CMM	0-99990	(Area)0-9.999m ²
CMS	0-9999	(Area)0-9.999m ²



Image: Measuring air flow and air volume unit table.

6. Typical Applications

The AP-866A anemometer is suitable for a variety of applications, including:

- HVAC system testing and maintenance.
- Environmental monitoring.
- Sailing and outdoor sports.
- Drone operation and testing.
- Wind power assessment.
- Ventilation duct measurements.

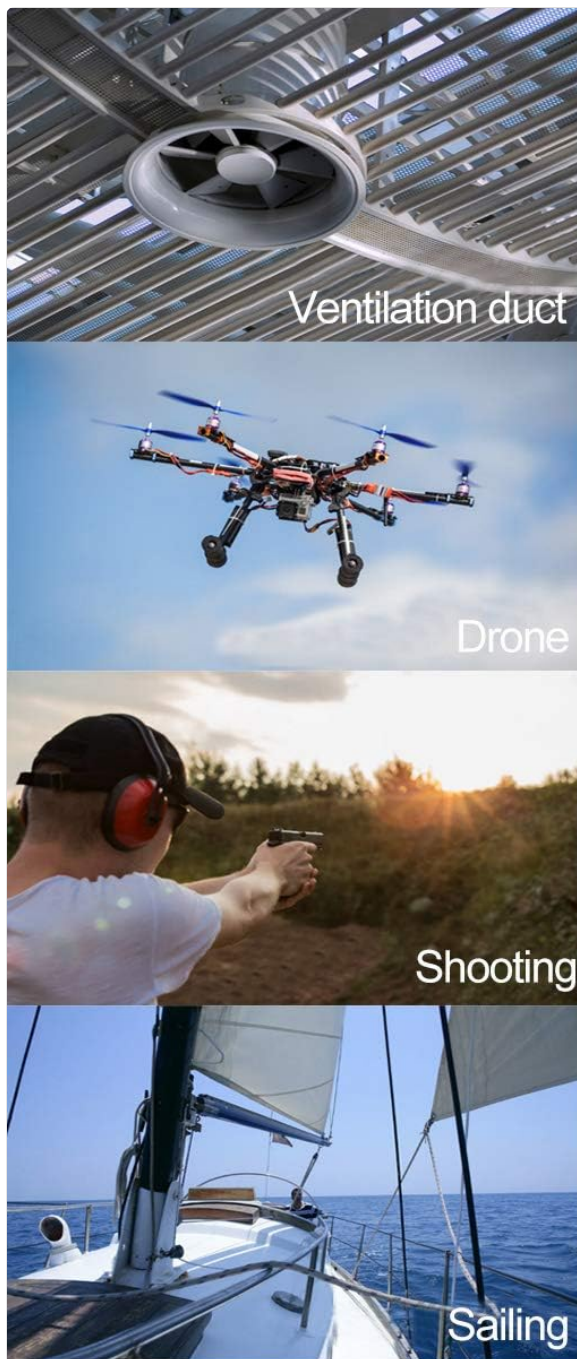


Image: Examples of anemometer applications.

USB CONNECTIVITY AND REAL-TIME DATA UPLOADING

The AP-866A anemometer can connect to a PC to transfer and analyze real-time data. Follow these steps:

1. Use the provided CD to install the PC software and USB drivers on your computer.
2. Power on the meter and connect it to your computer using the supplied USB cable.
3. Launch the installed PC software.
4. Long press the **"*/USB"** key on the anemometer for 3 seconds to enable the USB function of the meter.
5. The PC software will display real-time data and diagrams.
6. You can save or print the data, saving it in Excel or Txt format for further analysis.



USB REAL TIME DATA UPLOADING:

- 1 Use CD to install the PC software and the USB drivers.
- 2 Power on the meter and connect it to a computer with USB cable.
- 3 Launch the PC software.
- 4 Long press the “*/USB”key for 3 seconds to enable the USB function of the meter.
- 5 The PC software displays data and diagrams.
- 6 Save or print data, Save the data by Excel or Txt.

Image: USB real-time data uploading process and software interface.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Fan Care:** Ensure the fan blades are free from dust and debris for accurate readings. Do not attempt to lubricate the fan bearings.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears on the display.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new ones, ensuring correct +/- orientation.
Inaccurate readings.	Fan blades obstructed; sensor dirty; device not held correctly.	Check for obstructions on fan blades; gently clean sensors; ensure proper positioning during measurement.
LCD display is dim or blank.	Low battery; backlight off.	Replace batteries; press the */USB button to activate backlight.
USB connection not working.	Drivers not installed; USB function not enabled; faulty cable.	Install drivers from the provided disc; long press */USB for 3 seconds; try a different USB port or cable.

WARRANTY AND SUPPORT

AOPUTTRIVER products come with a **2-Year Warranty** and lifetime technical support.

If you have any questions about the product, require technical assistance, or need to claim warranty, please contact us:

- **Email:** AOPVIPSERVICE@163.com

We aim to reply within 24 hours.