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> HOLDPEAK HVAC Anemometer Handheld, CFM Airflow Wind Speed Meter 100MPH, Air Flow Velocity Meter Tester Gauge with Temperature, MAX/MIN/AVG, Backlight, Memory Functions, HP-846A 846A-Yellow

H HOLDPEAK 846A-YE

HOLDPEAK HP-846A HVAC Anemometer Instruction Manual

Model: 846A-YE | Brand: H HOLDPEAK

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of your HOLDPEAK HP-846A HVAC Anemometer. This device is designed for precise measurement of airflow (CFM), wind speed, and temperature, making it an essential tool for HVAC system balancing, environmental monitoring, and various outdoor activities. Please read this manual thoroughly before use to ensure optimal performance and longevity of the instrument.

KEY FEATURES

- **Pro Air Flow Meter:** Large Wind flow range of CFM 0-999900, resolution of 0.001-100, Air flow area of 0.001-9999 ft². Ideal for balancing central air conditioning systems.
- **Large Wind Speed Range:** Measurement range of 0.001~100 mph with an accuracy of +/- 3%. Temperature range is 32~113°F (0~45°C).
- **Multifunctional Measurement:** Features 5 units of switching (m/s, km/h, ft/min, knots, mph), real-time MAX/MIN/AVG display, backlight, low battery reminder, auto-off, and 600 data storage functions.
- **Separated Extendable Wind Sensor:** User-friendly extendable wind sensor vane allows for easy reading during measurements. Large Backlight LCD display for clear visibility.
- **Wide Applications:** Suitable for HVAC systems, CFM/CMM calculation, dust vent maintenance, hiking, camping, boat sailing, sky surfing, shooting, and drone flying. Includes a carrying case for portability.

PACKAGE CONTENTS



Image: The complete package including the main anemometer unit, separated wind sensor, hard carry case, 9V battery, and screwdriver.

- 1 x HOLDPEAK HP-846A Digital Anemometer Unit
- 1 x Separated Extendable Wind Sensor Vane
- 1 x Hard Carry Case
- 1 x 9V Battery (included)
- 1 x Screwdriver
- 1 x Instruction Manual

SETUP

1. Battery Installation



Image: Close-up of the anemometer's battery compartment, showing the 9V battery and connection points.

1. Locate the battery compartment cover on the back of the main unit.
2. Use the provided screwdriver to loosen the screw on the battery cover.
3. Remove the battery cover.
4. Insert the 9V battery, ensuring correct polarity (+ and - terminals). Note: The battery may be wrapped in plastic for shipping; remove this before installation.

5. Replace the battery cover and tighten the screw securely.

2. Sensor Connection

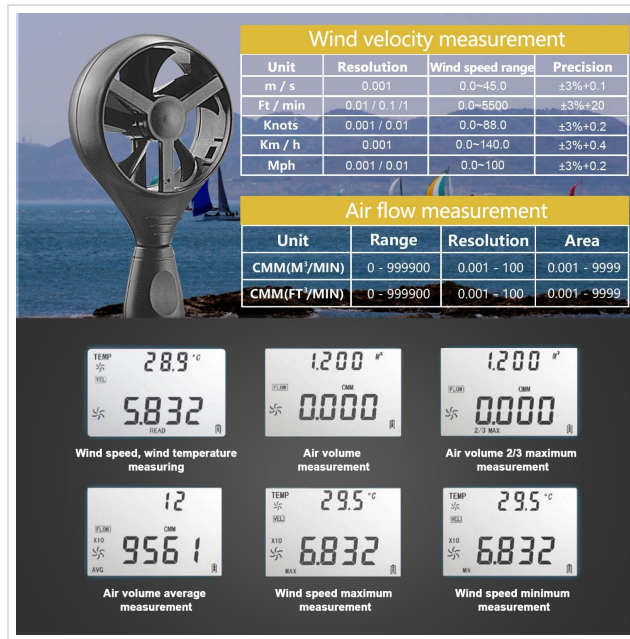


Image: The main anemometer unit connected to its external wind sensor via a coiled cable.

Connect the coiled cable from the wind sensor vane to the USB port on the side of the main anemometer unit. Ensure the connection is firm.

OPERATING INSTRUCTIONS

1. Power On/Off

- Press the **POWER** button (labeled with a power symbol) once to turn the unit on.
- Press and hold the **POWER** button for approximately 2 seconds to turn the unit off. The device also features an auto-off function to conserve battery.

2. Unit Switching

Press the **UNIT** button to cycle through the available wind speed units: m/s, km/h, ft/min, knots, and mph.

3. MAX/MIN/AVG Display

- Press the **MAX/MIN** button to view the maximum, minimum, and average wind speed readings.
- Press the button repeatedly to cycle through these modes.

4. Backlight

Press the **LIGHT** button to activate the display backlight for improved visibility in low-light conditions. The backlight will automatically turn off after a short period to save battery.

5. Data Storage (REC/READ)

The device can store up to 600 data records. Use the **REC** button to record current readings and the **READ** button to review stored data.

6. Temperature Unit Switching

Press the **°C/°F** button to switch between Celsius and Fahrenheit temperature units.

MEASUREMENT GUIDELINES



Image: Detailed tables outlining measurement units, ranges, resolution, and precision for both wind velocity and air flow.

1. Wind Velocity Measurement

Ensure the wind sensor vane is positioned directly into the airflow. An arrow inside the fan shroud indicates the correct direction for optimal readings. The display will show real-time wind speed.

2. Air Flow (CFM/CMM) Calculation

To calculate CFM (Cubic Feet per Minute) or CMM (Cubic Meters per Minute), you will need to input the area of the duct or vent being measured. The device allows you to set the air flow area (0.001-9999 ft²). Once the area is set, the anemometer will calculate and display the air flow volume based on the measured wind speed.

Formula for Air Flow: Air Flow = Air Velocity × Area

Refer to the detailed instructions in the included manual for specific steps on setting the area and performing air flow calculations.

MAINTENANCE

1. General Care

- Keep the instrument clean and dry. Use a soft, damp cloth for cleaning; do not use abrasive cleaners or solvents.
- Store the anemometer in its hard carry case when not in use to protect it from dust, impacts, and extreme temperatures.
- Avoid exposing the device to direct sunlight or high humidity for extended periods.

2. Battery Replacement

When the low battery indicator appears on the display, replace the 9V battery promptly to ensure accurate readings. Follow the battery installation steps outlined in the Setup section.

Note: The battery compartment has a rubber gasket to protect against moisture. Ensure it is properly seated when closing

the cover.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; battery not installed correctly; protective plastic on battery not removed.	Check battery installation and polarity. Replace battery if necessary. Ensure protective plastic is removed from battery terminals.
Inaccurate wind speed readings.	Sensor vane obstructed or damaged; incorrect sensor orientation; strong air currents not directly aligned with sensor.	Ensure sensor vane spins freely. Orient the sensor directly into the airflow, aligning with the internal arrow. Avoid turbulent air.
Display backlight is dim or not working.	Low battery; backlight auto-off feature.	Replace the battery. Press the LIGHT button to reactivate the backlight.
Cannot store data.	Memory full; incorrect operation.	Review and clear old data if memory is full. Refer to the manual for correct data storage procedures.

SPECIFICATIONS

Feature	Detail
Brand	H HOLDPEAK
Model Number	846A-YE
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Dimensions (L x W x H)	6.42 x 1.36 x 3.35 inches
Item Weight	320 Grams (11.3 ounces)
Screen Size	34.5 Millimeters
Power Source	1 x 9V Battery (included)
Wind Velocity Range	0.001~100 mph (0.4~45 m/s)
Wind Flow Range (CFM/CMM)	0-999900 CFM/CMM
Temperature Range	32~113°F (0~45°C)
Data Storage	Up to 600 records

WARRANTY & SUPPORT

H HOLDPEAK products typically come with a standard manufacturer's warranty. For specific warranty details, technical support, or service inquiries, please refer to the warranty card included in your product packaging or visit the official H HOLDPEAK website. Keep your purchase receipt as proof of purchase for warranty claims.

