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## H HOLDPEAK HP-856A

# HOLDPEAK HP-856A HVAC Anemometer: User Manual

Model: HP-856A

Brand: H HOLDPEAK

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and effective operation of the HOLDPEAK HP-856A HVAC Anemometer. This device is designed for measuring wind speed, airflow (CFM/CMM), and temperature, making it suitable for various applications including HVAC system balancing, environmental monitoring, and industrial testing.

## 2. PRODUCT FEATURES

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- Measures wind speed, airflow (CFM/CMM), and temperature.
- USB connectivity for data transfer to PC (Windows 7, XP, 10).
- Large wind flow range: CFM 0-999900, resolution 0.001-100.
- Wide wind speed measurement range: 0.001~100 mph (0.3-45 m/s).
- Temperature range: 32~113°F (0~45°C).
- Multiple wind speed units: m/s, km/h, ft/min, knots, mph.
- Real-time MAX/MIN/AVG display.
- Backlight LCD display for clear readings.
- Data hold function.
- Low battery indicator.
- Auto power-off function.
- 600 data storage capacity.
- Separated extendable wind sensor vane for flexible measurements.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- HOLDPEAK HP-856A Anemometer Main Unit

- Extendable Wind Sensor Vane
- USB Cable
- Software CD (for PC connectivity)
- 9V Battery (pre-installed or included)
- Hard Carry Case
- Instruction Manual



Image: The HOLDPEAK HP-856A Anemometer main unit, extendable wind sensor, USB cable, and hard carry case.

## 4. SAFETY INFORMATION

- Read this manual thoroughly before use.
- Do not attempt to repair or modify the device. Refer to qualified personnel for service.
- Keep the device away from water and high humidity.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- Ensure the battery is correctly installed according to polarity markings.
- Remove the battery if the device will not be used for an extended period to prevent leakage.
- Dispose of batteries and the device according to local regulations.

## 5. SETUP

### 5.1. Battery Installation

The HP-856A typically uses one 9V battery.

1. Locate the battery compartment on the back of the main unit.
2. Open the compartment cover.
3. Connect the 9V battery to the battery clip, observing correct polarity.
4. Place the battery into the compartment and close the cover securely.

### 5.2. Connecting the Wind Sensor

The wind sensor vane connects to the main unit via a coiled cable.

1. Plug the USB-A connector from the coiled cable into the corresponding USB port on the main unit.
2. Ensure the connection is firm.



Image: Illustration of connecting the extendable wind sensor to the main unit.

## 6. OPERATING INSTRUCTIONS

## 6.1. Power On/Off

Press the **POWER** button to turn the device on or off.

## 6.2. Display Overview

The large LCD displays various parameters:

- **TEMP:** Temperature reading.
- **VEL:** Wind velocity reading.
- **FLOW:** Airflow (CFM/CMM) reading.
- Unit indicators (m/s, km/h, ft/min, knots, mph, °C, °F).
- MAX/MIN/AVG indicators.
- Battery level indicator.

### Professional & Multifunctional

Suitable for HVAC test & measurement



 Wind Velocity	 Wind Flow
 °C/ °F Switch	 Auto OFF
 Extendable Cable	 Backlight
 Large LCD	 600 Records

Image: The anemometer's display showing wind velocity and airflow readings.

## 6.3. Changing Measurement Units

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

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

## 6.4. MAX/MIN/AVG Measurement

Press the **MAX/MIN** button to view maximum, minimum, and average readings for wind speed and airflow. Press again to cycle through modes.

## 6.5. Data Hold

Press the **HOLD** button to freeze the current reading on the display. Press again to release.

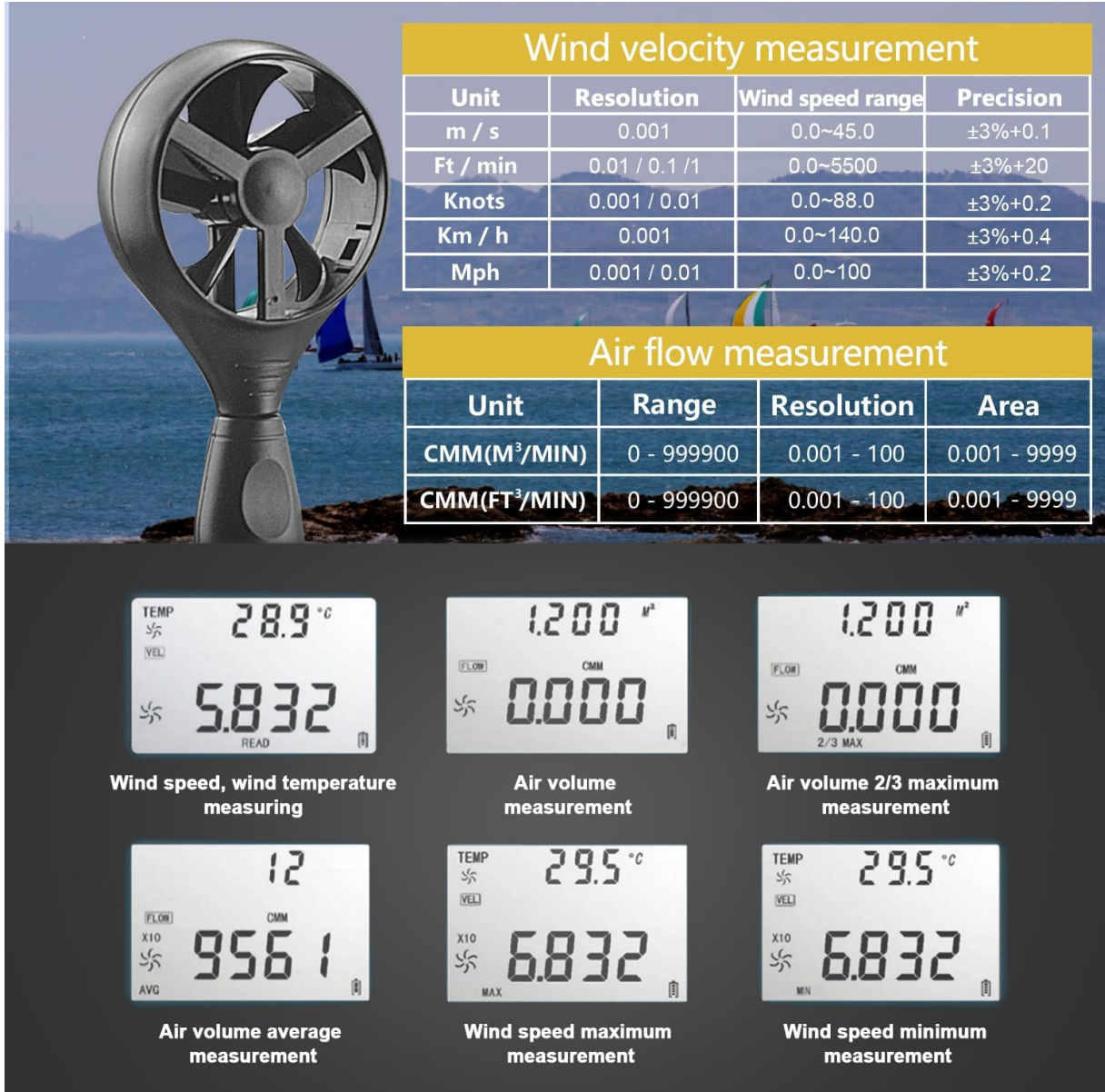
## 6.6. Backlight

Press the **LIGHT** button to turn the display backlight on or off.

## 6.7. Airflow Area Setting

To measure airflow (CFM/CMM), you must first set the area of the duct or vent.

1. Press the **AREA** button.
2. Use the arrow buttons to adjust the area value.
3. Press **ENTER** to confirm.



The image shows a handheld anemometer device with a circular fan. To its right are two tables detailing measurement specifications. Below these are six digital display screens showing various measurement modes.

### Wind velocity measurement

Unit	Resolution	Wind speed range	Precision
m / s	0.001	0.0~45.0	±3%+0.1
Ft / min	0.01 / 0.1 / 1	0.0~5500	±3%+20
Knots	0.001 / 0.01	0.0~88.0	±3%+0.2
Km / h	0.001	0.0~140.0	±3%+0.4
Mph	0.001 / 0.01	0.0~100	±3%+0.2

### Air flow measurement

Unit	Range	Resolution	Area
CMM(M <sup>3</sup> /MIN)	0 - 999900	0.001 - 100	0.001 - 9999
CMM(FT <sup>3</sup> /MIN)	0 - 999900	0.001 - 100	0.001 - 9999

The display screens show the following measurements:

- Wind speed, wind temperature measuring:** Wind speed 5.832, Wind temperature 28.9 °C.
- Air volume measurement:** Air volume 0.000 CMM, Area 1.200 M<sup>2</sup>.
- Air volume 2/3 maximum measurement:** Air volume 0.000 CMM, Area 1.200 M<sup>2</sup>.
- Air volume average measurement:** Air volume 9561 CMM, Area 12 M<sup>2</sup>.
- Wind speed maximum measurement:** Wind speed 6.832, Wind temperature 29.5 °C.
- Wind speed minimum measurement:** Wind speed 6.832, Wind temperature 29.5 °C.

Image: The anemometer display illustrating different measurement readouts like wind speed, air volume, and temperature.

## 7. DATA MANAGEMENT AND PC CONNECTIVITY

## 7.1. Data Storage

The device can store up to 600 sets of data.

1. To save a reading, press the **REC** button.
2. To recall stored data, press the **READ** button. Use arrow keys to navigate.
3. To clear stored data, refer to the detailed instructions in the full manual.

## 7.2. PC Connection

The HP-856A can connect to a PC for real-time monitoring and data logging.

1. Install the provided software from the CD onto your Windows PC (compatible with Win 7, XP, 10).
2. Connect the main unit to your PC using the supplied USB cable.
3. Launch the software. You should be able to view real-time data, record measurements, and generate graphs for analysis.



Equipped with software CD

### Data can be saved to PC

connect the wind meter to computer via USB port

- Connect to your computer via USB port to monitor and record wind speed, air flow, cfm, humidity and temperature.
- It can also generate graphs for analyzing wind data.

# USB

Image: The anemometer connected to a computer via USB, showing data being displayed and recorded on the PC software.

Video: Real-time online test of the HOLDPEAK HP-856A Anemometer

Your browser does not support the video tag.

*This video demonstrates connecting the anemometer to a PC via USB and observing real-time data logging and graphical representation of wind speed and temperature.*

## 8. MAINTENANCE

- Keep the device clean and dry. Use a soft, damp cloth for cleaning. Do not use abrasive cleaners or solvents.
- Regularly check the wind sensor vane for any obstructions or damage. Ensure it spins freely.
- Store the device in its hard carry case when not in use to protect it from dust and impact.
- Replace the battery when the low battery indicator appears on the display.



*Image: The anemometer and its components neatly stored in the provided hard carry case.*

## 9. TROUBLESHOOTING

## 9.1. No Display/Device Not Turning On

- Check battery installation and ensure correct polarity.
- Replace with a fresh 9V battery.

## 9.2. Inaccurate Readings

- Ensure the wind sensor vane is free from obstructions and spins smoothly.
- Verify the correct measurement units are selected.
- For airflow measurements, confirm the correct area setting.
- Allow the device to stabilize in the measurement environment for temperature readings.

## 9.3. PC Connection Issues

- Ensure the USB cable is securely connected to both the anemometer and the PC.
- Verify that the software drivers are correctly installed.
- Check PC compatibility (Windows 7, XP, 10).
- Try a different USB port on your computer.

# 10. SPECIFICATIONS

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### HOLDPEAK HP-856A Anemometer Specifications

Parameter	Value
Brand	H HOLDPEAK
Model Number	HP-856A
Wind Speed Range	0.001~100 mph (0.3-45 m/s)
Wind Speed Accuracy	±3%
Air Flow (CFM) Range	0-999900 CFM
Air Flow Resolution	0.001-100
Air Flow Area	0.001-9999 ft <sup>2</sup>
Temperature Range	32~113°F (0~45°C)
Data Storage	600 records
PC Connectivity	USB (Windows 7, XP, 10)
Power Source	1 x 9V Battery
Material	Polycarbonate (PC)
Dimensions (L x W x H)	64.17 x 13.58 x 33.46 inches
Item Weight	11.3 ounces (320 Grams)

# 11. WARRANTY AND SUPPORT

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H HOLDPEAK provides a 2-year after-sale service and lifetime technical support for this product. For any concerns or assistance, please contact H HOLDPEAK customer service.

You can visit the official [H HOLDPEAK Store on Amazon](#) for more information and support resources.