

## HoldPeak HP-816B

# HoldPeak HP-816B Digital Anemometer User Manual

Model: HP-816B | Brand: HoldPeak

## 1. INTRODUCTION

Thank you for choosing the HoldPeak HP-816B Digital Anemometer. This device is designed for precise measurement of wind speed, air flow velocity, and temperature, including wind chill indication. This manual provides detailed instructions for proper setup, operation, and maintenance to ensure optimal performance and longevity of your anemometer.

Please read this manual thoroughly before using the device and keep it for future reference.

## 2. PRODUCT OVERVIEW

The HoldPeak HP-816B is a compact and versatile digital anemometer suitable for various applications, from outdoor activities to electrical equipment testing.

### Key Features:

- **Precise Measurement:** Measures wind speed from 0.3 to 30 m/s ( $\pm 5\%$  rdg) and temperature from  $-10$  to  $45^{\circ}\text{C}$  ( $\pm 2^{\circ}\text{C}$ ), with real-time wind chill indication.
- **Multi-Unit Display:** Supports wind speed units (m/s, Ft/min, knots, Km/h, Mph) and temperature units ( $^{\circ}\text{C}/^{\circ}\text{F}$ ).
- **Data Modes:** Displays maximum, average, and current wind speed.
- **Backlit LCD:** Features a crystal display with an automatic backlight function for visibility in low-light conditions.
- **Automatic Power Off:** Conserves battery life by automatically shutting down after 10 minutes of inactivity.

- **Portable Design:** Lightweight and compact, designed for single-hand operation and easy portability.

## HP-816B BASIC FUNCTION

-  Wind Speed Measurement
-  Temperature Measurement
-  Backlit Display
-  Equipped With Automatic Power Off Function
-  °F / °C Conversion

**MODE**

**°C / °F KEY**

**SET BUTTON**



Figure 2.1: HoldPeak HP-816B Anemometer with basic functions highlighted.

### 3. COMPONENTS INCLUDED

The HoldPeak HP-816B Digital Anemometer package typically includes:

- HoldPeak HP-816B Digital Anemometer
- CR2032 3.0V Battery (pre-installed or included separately)
- Lanyard
- User Manual



Figure 3.1: The HoldPeak HP-816B Digital Anemometer and its included accessories.

## 4. SETUP

### 4.1 Battery Installation

The device uses one CR2032 3.0V battery. Follow these steps to install or replace the battery:

1. Locate the battery cover on the back of the anemometer.
2. Use a coin to rotate the battery cover counter-clockwise to the "OPEN" position.
3. Remove the cover and insert the CR2032 battery with the positive (+) side facing up.
4. Replace the battery cover and rotate it clockwise to the "CLOSE" position to secure it.

## BATTERY REMOVAL OPERATION

The battery back cover is more convenient in design and can be manually unscrewed and removed to achieve super-easy battery replacement.



Figure 4.1: Illustrated guide for battery replacement.

### 4.2 Lanyard Attachment

To prevent accidental drops and for convenient carrying, attach the included lanyard:

1. Locate the lanyard hole at the bottom of the anemometer.
2. Thread the thin loop of the lanyard through the hole.
3. Pass the main strap of the lanyard through the loop and pull it tight to secure.

Your browser does not support the video tag. This video demonstrates battery installation and lanyard attachment for the HoldPeak HP-816B Digital Anemometer. (Note: The video source URL is a placeholder; the actual m3u8 URL would be inserted here.)

Video 4.1: Demonstration of battery installation and lanyard attachment.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- **Power On:** Long press the "MODE" button until the device turns on and "m/s" starts to flash.

- **Power Off:** Long press the "SET" button to turn off the device. The device also features an automatic power-off function after 10 minutes of inactivity.

## 5.2 Unit Selection (Wind Speed)

To change the wind speed unit:

1. With the device powered on, short press the "MODE" button repeatedly.
2. Cycle through the available units: m/s, km/h, ft/min, knots, mph.
3. The selected unit will be displayed on the screen.

## 5.3 Temperature Unit Switch (°C/°F)

To switch between Celsius and Fahrenheit:

- Short press the "°C/°F" button to toggle between Celsius (°C) and Fahrenheit (°F).

## 5.4 Backlight Function

The device is equipped with a backlight for use in dark environments:

- Press any key to activate the LCD backlight for 5 seconds.



Figure 5.1: Anemometer display with backlight activated in a dark setting.

## 5.5 Measurement Modes (MAX/AVG/CURRENT)

The anemometer can display maximum, average, and current wind speed. Use the "MODE" button to cycle through these display options after the device is powered on and the unit is selected.



Figure 5.2: Detailed view of the anemometer's display and control buttons (MODE, °C/°F, SET).

## 6. SPECIFICATIONS

Below are the technical specifications for the HoldPeak HP-816B Digital Anemometer:

Feature	Specification
Brand	HoldPeak
Model Number	HP-816B
Material	Acrylonitrile Butadiene Styrene (ABS)

Feature	Specification
Item Dimensions (L x W x H)	11.3 x 4 x 1.5 cm
Item Weight	80 Grams
Battery Type	CR2032 3.0V
Thermometer	NTC thermometer
Temperature Range	-10°C to 45°C (14°F to 113°F)
Operating Temperature	≤90% RH
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Current Consumption	About 3mA
Wind Speed Range (m/s)	0.3 - 30 m/s (Resolution: 0.1, Threshold: 0.1, Accuracy: ±5%)
Wind Speed Range (Ft/min)	0 - 5860 Ft/min (Resolution: 19, Threshold: 39, Accuracy: ±5%)
Wind Speed Range (Knots)	0 - 55 Knots (Resolution: 0.2, Threshold: 0.3, Accuracy: ±5%)
Wind Speed Range (Km/h)	0 - 90 Km/h (Resolution: 0.3, Threshold: 0.3, Accuracy: ±5%)
Wind Speed Range (Mph)	0 - 65 Mph (Resolution: 0.2, Threshold: 0.2, Accuracy: ±5%)

<b>BATTERY</b>	CR2032 3.0V
<b>THERMOMETER</b>	NTC thermometer
<b>TEMPERATURE RANGE</b>	-10°C~45°C(14°F~113°F)
<b>OPERATING TEMPERATURE</b>	≤90%RH
<b>STORE TEMPERATURE</b>	-40°C~60°C(-40°F~140°F)
<b>CURRENT CONSUMPTION</b>	About 3mA
<b>WEIGHT</b>	53g(with battery and yard)

The above pictures and content are for reference only. Please answer what is the actual product Update time or update time. Please forgive me, because I will not notify you in advance.

## NUMBER OF PRODUCTS:

WIND SPEED RANGE				
UNIT	RANGE	SOLUTION	THRESHOLD	ACCURACY
M/s	0~30	0.1	0.1	±5%
Ft/min	0~5860	19	39	
Knots	0~55	0.2	0.1	
Km/hr	0~90	0.3	0.3	
Mph	0~65	0.2	0.2	



Figure 6.1: Detailed specifications and dimensions of the anemometer.

## 7. MAINTENANCE

### 7.1 Cleaning

To maintain accuracy and extend the life of your anemometer:

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Ensure the fan blades are free from dust and debris for accurate wind speed readings.

### 7.2 Battery Replacement

Refer to Section 4.1 for detailed instructions on how to replace the battery. Replace the battery when the low battery indicator appears on the display to ensure continuous and accurate operation.

### 7.3 Storage

When not in use for extended periods, store the anemometer in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for a long time, it is recommended to remove the battery to prevent leakage.

## 8. TROUBLESHOOTING

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If you encounter issues with your HoldPeak HP-816B Anemometer, refer to the following common problems and solutions:

- **Device not turning on:** Check if the battery is correctly installed and has sufficient charge. Replace the battery if necessary (refer to Section 4.1).
- **Inaccurate wind speed readings:** Ensure the fan blades are clean and unobstructed. Make sure the device is held in an open area, facing the wind direction.
- **Display is dim or flickering:** The battery might be low. Replace the battery.
- **Backlight not working:** Press any button to activate the backlight. If it still doesn't work, check the battery.

If the problem persists after attempting these solutions, please contact HoldPeak customer support for further assistance.

## 9. APPLICATION SCENARIOS

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The HoldPeak HP-816B Digital Anemometer is a versatile tool suitable for a wide range of applications:

- **Outdoor Activities:** Ideal for shooting, sailing, mountaineering, kite flying, drone operation, and other sports where wind conditions are crucial.
- **HVAC Systems:** Useful for testing and balancing heating, ventilation, and air conditioning equipment.
- **Environmental Monitoring:** Can be used for air flow research and aerial surveys.
- **Industrial Use:** Suitable for various industrial applications requiring wind speed and temperature monitoring.

# EVOLVED ANEMOMETER

It is more convenient to improve the digital anemometer and measure the wind speed.



Figure 9.1: Examples of the anemometer's diverse application scenarios.

## 10. WARRANTY AND SUPPORT

HoldPeak provides a 365-day warranty for the HP-816B Digital Anemometer, ensuring quality and reliability. Additionally, lifetime technical support is available to assist you with any questions or issues you may encounter.

For technical assistance or warranty claims, please contact HoldPeak customer service through their official channels or the retailer where the product was purchased.