VIHELM GM816

VIHELM GM816 Handheld Portable Digital Anemometer User Manual

Model: GM816

Introduction

This manual provides detailed instructions for the operation, maintenance, and troubleshooting of your VIHELM GM816 Handheld Portable Digital Anemometer. This device is designed for measuring wind speed and temperature, offering a reliable tool for various applications.

The GM816 features a large, easy-to-read LCD display with backlight, Beaufort wind scale bar graph, and wind chill indication. It includes a data hold function, high precision pressure sensor, and an external thermistor for quick response. The unit supports temperature display in both °C and °F, and provides current, maximum, and average wind speed readings.

Features

- Measures wind speed and temperature.
- Large easy-to-read LCD display with backlight.
- Wind speed in Beaufort wind scale bar graph.
- Wind chill indication.
- Data hold function.
- High precision pressure sensor.
- Quick response, external thermistor.
- Auto/manual power off.
- Temperature display in °C/°F.
- Wind speed range: 0-30m/s.
- Wind temperature range: -10 - 45°C (14-113°F).
- Current/max/average wind speed reading.
- Wind speed units: m/s, Km/h, ft/min, Knots, mph.
- Powered by a 3V CR2032 battery.



Image: Detailed list of features and specifications for the GM816 Anemometer.

Product Components

Familiarize yourself with the different parts of your GM816 Anemometer:



Image: Front view of the GM816 Anemometer with key components labeled, including protective case, wind mill, temperature sensor probe, Boot/mode button, Mode selection button, wind speed unit, wind speed display, wind rating, power indicator, and temperature data.

- **Protective Case:** Provides protection for the device.
- **Wind Mill:** Measures wind speed.
- **Temperature Sensor Probe:** Detects ambient temperature.
- **MODE Button:** Used for booting the device and selecting modes.
- **SET Button:** Used for mode selection and setting changes.
- **LCD Display:** Shows wind speed, temperature, units, and other data.

Setup

Battery Installation

The GM816 Anemometer requires one 3V CR2032 lithium battery (not included).

1. Locate the battery compartment on the back of the device.
2. Remove the battery cover by twisting or sliding it off.
3. Insert a new 3V CR2032 lithium battery into the compartment, ensuring correct polarity (+/-).
4. Replace the battery cover securely.



Image: Underside view of the GM816 Anemometer showing the circular battery compartment for a CR2032 battery, with the battery cover removed.



Image: Diagram illustrating the insertion of a new 3V CR2032 battery into the anemometer, along with instructions for turning the device on/off and changing units.

Attaching the Lanyard

A lanyard is included for convenient carrying and to prevent accidental drops.

1. Locate the small loop hole on the bottom of the anemometer.
2. Thread the thin loop of the lanyard through this hole.
3. Pass the main strap of the lanyard through the threaded loop and pull to secure.



Image: The GM816 Anemometer shown alongside its black lanyard, ready for attachment.

Operating Instructions

Power On/Off

- **To Turn On:** Push the "MODE" button.
- **To Turn Off:** Push the "MODE" button and the "SET" button simultaneously.
- **Auto Shut Off:** The device will automatically shut off after 50 seconds of inactivity to conserve battery life.

Changing Measurement Units (°C/°F, Wind Speed Units)

- **To Change Temperature Unit (°C/°F):**
  1. Push the "MODE" button for 3 seconds until the unit display starts to blink.
  2. Push the "SET" button to cycle through the available units.
  3. Push the "MODE" button again to confirm and accept the selected unit.
- **To Change Wind Speed Unit (m/s, Km/h, ft/min, Knots, mph):**
  While the unit is on, press the "SET" button briefly to cycle through the wind speed units displayed on the screen.

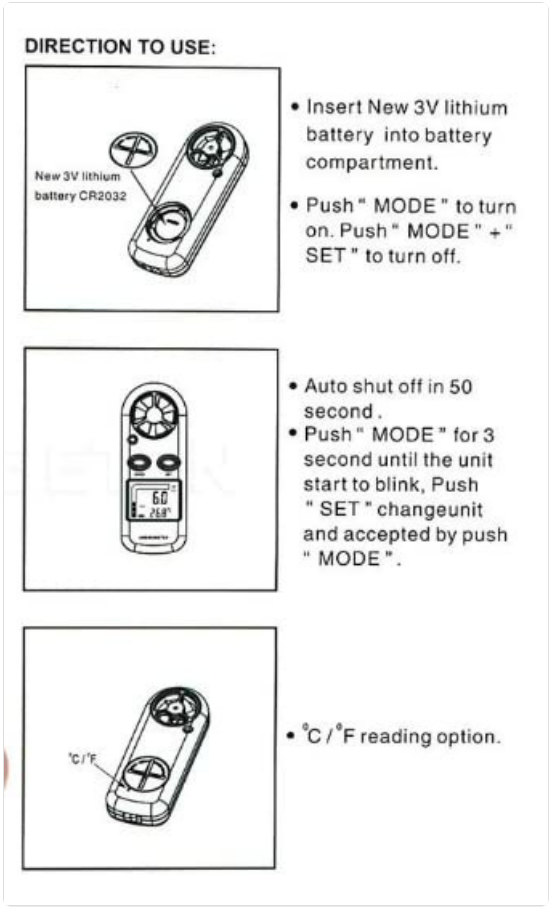


Image: Diagram illustrating the insertion of a new 3V CR2032 battery into the anemometer, along with instructions for turning the device on/off and changing units.

Measurement Modes

The GM816 supports multiple measurement modes for wind speed:

- **Timely Measurement (Instant):** Displays the current wind speed in real-time. This is the default mode.
- **Maximum Value Measurement (MAX):** Only the maximum wind speed value recorded during the measurement period is displayed.
- **Average Value Measurement (AVG):** The average wind speed value during the measurement time will be displayed.

To switch between these modes, press the "MODE" button briefly while the device is on.



Image: The GM816 Anemometer display showing examples of instant measurement (6.5 m/s), maximum measured value (8.0 m/s with MAX indicator), and average measurement (3.5 m/s with AVG indicator).

Data Hold Function

The device features a data hold function. To activate or deactivate, refer to the on-screen indicators or consult the quick start guide for specific button presses, as this function is typically integrated with a short press of a specific button (often MODE or SET) while a reading is stable.

Specifications

Category	Specification
Air Velocity Range	0 - 30m/s, 0 - 90km/h, 0 - 5860ft/min, 0 - 65mph, 0 - 55Knots
Air Velocity Resolution	0.1m/s, 0.3km/h, 19ft/min, 0.2mph, 0.2Knots
Air Velocity Threshold	0.1m/s, 0.3km/h, 39ft/min, 0.2mph, 0.1Knots
Air Velocity Accuracy	+/- 5%
Air Temperature Range	-10 - 45°C (14 - 113°F)
Air Temperature Accuracy	±2°C, ±3.6°F
Power Supply	1 * 3V CR2032 battery (Not Included)
Thermometer Type	NTC Thermometer
Operating Temperature	-10 - 45°C (14 - 113°F)
Operating Humidity	Less than or equal to 90%RH

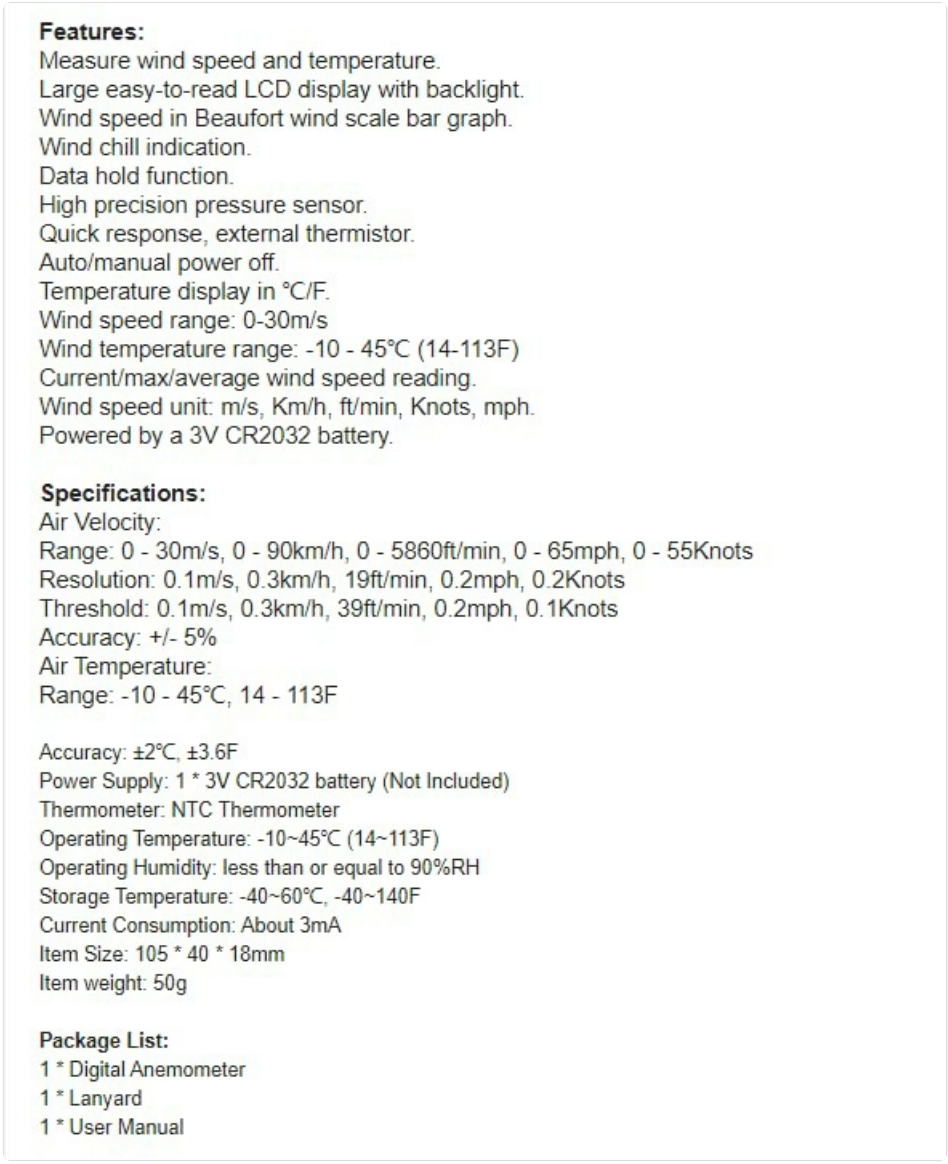
Storage Temperature	-40 - 60°C (-40 - 140°F)
Current Consumption	About 3mA
Item Size (L x W x H)	105 * 40 * 18mm (4.13 x 1.57 x 0.71 inches)
Item Weight	50g (1.76 ounces)
Product Dimensions	4.72 x 3.15 x 1.97 inches; 1 Pounds (from product data, likely including packaging)
ASIN	B0B7R9W4BX
UPC	797442721548



Image: Detailed list of features and specifications for the GM816 Anemometer, including air velocity ranges, temperature ranges, power supply, and physical dimensions.

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 battery to prevent leakage. Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Protective Case:** Always use the provided protective case to shield the anemometer from impacts and dust.
- **Wind Mill:** Ensure the wind mill is free from obstructions (dust, debris) for accurate readings. Do not attempt to lubricate the wind mill.



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Measure wind speed and temperature.
Large easy-to-read LCD display with backlight.
Wind speed in Beaufort wind scale bar graph.
Wind chill indication.
Data hold function.
High precision pressure sensor.
Quick response, external thermistor.
Auto/manual power off.
Temperature display in °C/F.
Wind speed range: 0-30m/s
Wind temperature range: -10 - 45°C (14-113F)
Current/max/average wind speed reading.
Wind speed unit: m/s, Km/h, ft/min, Knots, mph.
Powered by a 3V CR2032 battery.

Specifications:
Air Velocity:
Range: 0 - 30m/s, 0 - 90km/h, 0 - 5860ft/min, 0 - 65mph, 0 - 55Knots
Resolution: 0.1m/s, 0.3km/h, 19ft/min, 0.2mph, 0.2Knots
Threshold: 0.1m/s, 0.3km/h, 39ft/min, 0.2mph, 0.1Knots
Accuracy: +/- 5%
Air Temperature:
Range: -10 - 45°C, 14 - 113F

Accuracy: ±2°C, ±3.6F
Power Supply: 1 * 3V CR2032 battery (Not Included)
Thermometer: NTC Thermometer
Operating Temperature: -10~45°C (14~113F)
Operating Humidity: less than or equal to 90%RH
Storage Temperature: -40~60°C, -40~140F
Current Consumption: About 3mA
Item Size: 105 * 40 * 18mm
Item weight: 50g

Package List:
1 * Digital Anemometer
1 * Lanyard
1 * User Manual

Image: The GM816 Anemometer (black body) next to its bright yellow protective silicone case, illustrating how the case provides protection.

Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on.	Battery is dead or incorrectly installed.	Check battery polarity. Replace with a new 3V CR2032 battery.
Inaccurate readings.	Wind mill obstructed; sensor dirty; device not held correctly.	Ensure wind mill spins freely. Clean sensor area gently. Hold device facing the wind without obstruction.
Display is dim or flickering.	Low battery.	Replace the battery.
Auto shut-off too quickly.	Normal operation (50 seconds inactivity).	This is a power-saving feature. Press any button to keep the display active.

Package Contents

Upon opening the package, you should find the following items:

- 1 * Digital Anemometer (GM816)

- 1 * Lanyard
- 1 * User Manual (this document)



Image: Front and back views of the GM816 Handheld Portable Digital Anemometer, showing its yellow protective casing and black main body with display and buttons.

Warranty and Support

Information regarding product warranty and customer support was not available in the provided data. Please refer to the product packaging or the seller's website for details on warranty coverage and how to contact customer support for assistance.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question