

INFURIDER YF-6000GH

INFURIDER Digital Wind Speed Meter YF-6000GH User Manual

Model: YF-6000GH | Brand: INFURIDER

1. INTRODUCTION

The INFURIDER YF-6000GH is a portable digital wind speed meter designed for accurate measurement of wind speed, wind temperature, and air flow. Featuring an upgraded smart touch mode and a clear LCD backlight display, this device is suitable for various applications including HVAC balancing, drone flight, shooting, sailing, and general environmental monitoring.

This manual provides detailed instructions for the setup, operation, and maintenance of your INFURIDER YF-6000GH Digital Wind Speed Meter.

2. PRODUCT FEATURES

- **Smart Touch Mode:** Upgraded interface for precise and sensitive operation.
- **Multi-Function Measurement:** Measures wind speed, wind temperature, and air flow (CFM).
- **High Accuracy:** 8-blade wind meter provides accurate readings for wind speed (0-65mph with +/-5% accuracy) and air temperature (14°F-113°F with 0.2°F resolution).
- **Rechargeable Battery:** Built-in 400mAh lithium battery offers up to 30 hours of use on a full charge, rechargeable via Type-C port.
- **Clear LCD Backlight Display:** Easy-to-read screen with backlight for various lighting conditions.
- **Versatile Units:** Supports 5 wind speed units (m/s, km/h, ft/min, knots, mph), 2 temperature units (°F/°C), and air flow units (m³/min, m³/s, ft³/min).
- **Data Hold Function:** Freeze current readings on the display.
- **Max/Min/AVG Readings:** View maximum, minimum, and average measured values.
- **Beaufort Scale:** Displays wind speed on a 12-level Beaufort scale.
- **Auto/Manual OFF:** Automatic power-off after 5 minutes of inactivity to conserve battery.
- **Tripod Mountable:** Features a metal threaded hole for tripod mounting for continuous measurement.



Figure 1: Overview of INFURIDER YF-6000GH features, including current/max/min display, wind speed measurement, air flow measurement, temperature display, multi-unit selection, data hold, rechargeable battery, auto/manual off, and 12 Beaufort scale.

3. PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all items are present:

- INFURIDER YF-6000GH Digital Wind Speed Meter (1 unit)
- USB Type-C Charging Cable (1 unit)
- Small Screwdriver (1 unit)
- Lanyard (1 unit)
- Storage Pouch (1 unit)
- User Manual (1 unit)



Figure 2: Image showing the INFURIDER YF-6000GH anemometer, USB Type-C charging cable, screwdriver, lanyard, and storage pouch included in the package.

4. SETUP

4.1 Initial Battery Connection

Before first use, the internal lithium battery may need to be manually connected. Use the provided small screwdriver to open the battery compartment and ensure the battery connector is securely plugged in. Close the compartment afterwards.

4.2 Charging the Device

The YF-6000GH features a built-in 400mAh lithium battery. To charge the device:

1. Locate the Type-C charging port on the device.
2. Connect the provided USB Type-C cable to the device and a suitable USB power source (e.g., computer USB port, wall adapter).
3. The battery indicator on the display will show charging status. A full charge provides approximately 30 hours of operation.



Figure 3: The INFURIDER YF-6000GH showing its Type-C charging port and the rechargeable battery feature.

4.3 Attaching the Lanyard

A screw hole is located at the bottom of the device. You can attach the included lanyard for secure handling and to prevent accidental drops.

NUT INSTALLABLE DESIGN

A metal threaded hole on the bottom of the handheld anemometer;

Easy to mount on a tripod for continuous measurement.



Lanyard
Screw Hold

! Note: The Tripod is NOT Included



Figure 4: The INFURIDER YF-6000GH demonstrating its nut installable design for tripod mounting and the lanyard screw hold at the bottom. Note: Tripod is not included.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

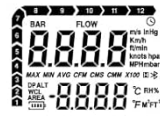
- **Power On:** Press the **POWER** button (usually marked with a circle and vertical line icon) to turn on the device.
- **Power Off:** Press and hold the **POWER** button to turn off the device. The device will also automatically power off after 5 minutes of inactivity.

5.2 Display Overview and Button Functions



8 vanes sensitive
wind speed measurement

Clear LCD Backlight
Display



Sensitive Smart
Multi-Touch Screen



Figure 5: Close-up of the INFURIDER YF-6000GH's clear LCD backlight display and sensitive smart multi-touch screen, highlighting the 8-vane sensor. The device features a clear LCD backlight display and a sensitive smart multi-touch screen with several buttons:

- **MODE Button:** Used to switch between different measurement modes (e.g., wind speed, air flow, temperature).
- **UNIT Button:** Used to change measurement units (e.g., m/s, km/h, °F/°C).
- **SET Button:** Used for entering settings or confirming selections.
- **MAX/MIN Button:** Toggles between current, maximum, and minimum readings.
- **Data Hold Button (often combined with SET or another icon):** Freezes the current reading on the display.

5.3 Measuring Wind Speed and Temperature

1. Turn on the device.
2. Ensure the device is in wind speed measurement mode (indicated on the display). If not, press the **MODE** button to cycle through modes.
3. Point the 8-blade anemometer rotor towards the wind source.
4. The wind speed and ambient temperature will be displayed on the screen.
5. Press the **UNIT** button to switch between wind speed units (m/s, km/h, ft/min, knots, mph) or temperature units

(°F/°C).

6. Press the **MAX/MIN** button to view the maximum, minimum, or average wind speed recorded during the current session.

5.4 Measuring Air Flow (CFM)

To measure air flow, you first need to set the area of the duct or opening.

1. Turn on the device.
2. Press the **MODE** button until the air flow (CFM) mode is selected.
3. Press the **SET** button to enter the area setting. Use the touch screen or arrow buttons (if available) to input the area in m² or ft². Confirm the setting.
4. Position the anemometer in the airflow path.
5. The air flow reading will be displayed. Press the **UNIT** button to switch between m³/min, m³/s, or ft³/min.

Note: The device's theoretical range for setting volume area is 9999, but in practice, it may be limited to 0.001-929.9. Ensure your input is within this practical range for accurate CFM calculations.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided storage pouch for protection.
- **Battery Care:** Recharge the battery regularly, even if the device is not in use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Rotor Inspection:** Periodically check the 8-blade rotor for any obstructions or damage. Ensure it spins freely.

7. TROUBLESHOOTING

- **Device does not power on:**
 - Ensure the internal battery is properly connected (refer to Section 4.1).
 - Check if the battery is charged. Connect the device to a charger using the Type-C cable.
- **Inaccurate CFM readings:**
 - Verify that the correct area (m² or ft²) has been entered in the settings.
 - Ensure the area input is within the practical range of 0.001-929.9.
 - Ensure the anemometer is positioned correctly in the airflow.
- **Rotor clattering at high speeds:**
 - This may indicate a slight imbalance in the vane. While it might not significantly affect readings, ensure no debris is caught in the rotor.
- **Display is dim or unreadable:**
 - Check battery level. Recharge if low.
 - Ensure the backlight is enabled (if applicable, refer to device specific button functions).

8. SPECIFICATIONS

Feature	Detail
Brand	INFURIDER
Model Number	YF-6000GH
Wind Speed Range	0-65 mph (0-30 m/s)
Wind Speed Accuracy	±5%
Temperature Range	14°F-113°F (-10°C-45°C)
Temperature Resolution	0.2°F (0.1°C)
CFM Airflow Range	0-999900 ft³/min
CFM Resolution	0.001
Battery Type	Built-in 400mAh Lithium Battery
Battery Life	Approx. 30 hours (after full charge)
Charging Port	USB Type-C
Auto Power Off	5 minutes of inactivity
Dimensions (L x W x H)	21.4 x 11.5 x 6.2 cm (8.4 x 4.5 x 2.4 inches)
Weight	322 Grams (0.71 lbs)

9. WARRANTY AND SUPPORT

INFURIDER products are designed for reliability and performance. For warranty information or technical support, please refer to the warranty card included in your package or contact INFURIDER customer service through their official website or the retailer where the product was purchased.

Please retain your purchase receipt as proof of purchase for warranty claims.