

GOYERRNES GR-8808

GOYERRNES GR-8808 Handheld Anemometer User Manual

Model: GR-8808

1. INTRODUCTION

The GOYERRNES GR-8808 Handheld Anemometer is a versatile instrument designed for measuring wind speed, wind temperature, and humidity. This device is suitable for a variety of applications including HVAC system analysis, outdoor sports, drone operation, and environmental monitoring. Its compact design, backlit LCD, and rechargeable battery make it a reliable tool for both professional and recreational use.

Key Features:

- Measures wind speed, temperature, and humidity.
- Large LCD with backlight for clear visibility in low light.
- Built-in flashlight for convenience.
- Rechargeable via Type-C USB port.
- Tripod mounting hole for continuous measurement.
- Data Hold, MAX/MIN/AVG functions.

3-IN-1 PRO ANEMOMETER

You can get environmental conditions in seconds in the palm of your hand including Wind Speed, Temperature, Humidity,



Image 1.1: The GR-8808 Anemometer displaying its 3-in-1 measurement capabilities for wind speed, temperature, and humidity.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- GOYERRNES GR-8808 Anemometer
- Type-C USB Charging Cable
- Portable Storage Bag
- Hand Strap
- Small Screwdriver (for battery compartment)
- Instruction Manual (this document)

PACKAGE CONTENT



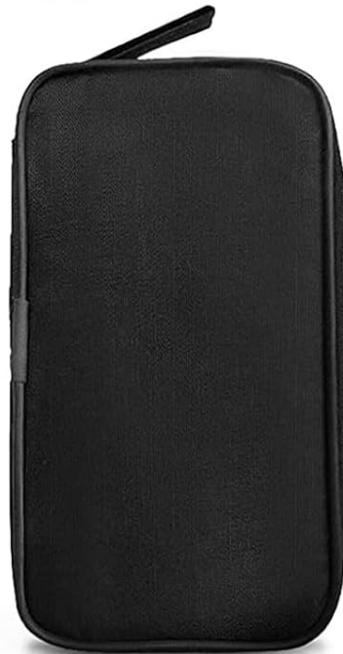
Anemometer



Type-C Cable



Screwdriver



Portable Bag



Hand Strap

Image 2.1: All components included in the GR-8808 Anemometer package.

3. SETUP

3.1 Initial Battery Connection and Charging

Before first use, the internal rechargeable battery must be connected. Follow these steps:

1. Using the provided screwdriver, open the battery compartment cover located on the back of the device.
2. Carefully connect the battery connector to the corresponding port inside the compartment.
3. Close the battery compartment cover and secure it with the screw.
4. Connect the device to a power source using the Type-C USB cable to fully charge it before initial operation. The charging indicator on the screen will show charging status.

Please connect the power cable before first use.



Image 3.1: Steps for connecting the internal battery before first use.

3.2 Attaching the Hand Strap

Thread the included hand strap through the designated loop on the device to prevent accidental drops during use.

3.3 Tripod Mounting (Optional)

The GR-8808 features a standard metal threaded hole at the bottom, allowing it to be mounted on a tripod (not included) for stable, continuous measurements. This is particularly useful for applications requiring hands-free operation, such as drone flying or long-term monitoring.



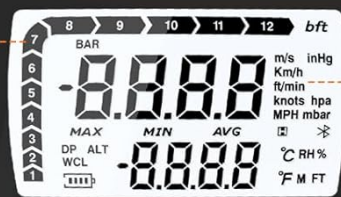
Image 3.2: The anemometer can be mounted on a tripod for stable measurements.

4. OPERATING INSTRUCTIONS

4.1 Device Layout and Controls

DISPLAY ON THE LCD SCREEN

Wind Speed Measurement Accuracy: ($\pm 5\%$)



0.3~30 m/s
1 ~ 65 mph
2~90 km/h
1 ~ 55 Knots
59~5905 ft/min

Wind Scale (1-12 Levels)



Temperature(°C/°F)
& Humidity Switching

Wind Speed Unit
Switching

T/RH

UNIT

On / Off

HOLD

Backlight / Flashlight

Hold Button

MODE

(Maintain wind speed values only)

MAX/MIN/Current Mode Switching

Image 4.1: Overview of the anemometer's display and control buttons.

- **On/Off Button:** Powers the device on or off.
- **T/RH Button:** Switches between temperature units (°C/°F) and displays humidity.
- **UNIT Button:** Cycles through wind speed units (m/s, km/h, ft/min, knots, mph).
- **HOLD Button:** Freezes the current measurement on the display. Press again to release.
- **MODE Button:** Switches between MAX, MIN, AVG, and current measurement modes.
- **Backlight/Flashlight Button:** Activates the LCD backlight and the built-in flashlight.

4.2 Power On/Off

Press the **On/Off** button to turn the anemometer on. Press and hold the **On/Off** button for a few seconds to turn it off. The device features an auto-off function to conserve battery power if inactive for a period.

4.3 Taking Measurements

Point the anemometer's fan blades towards the wind source. The LCD will display real-time wind speed, temperature, and humidity. Ensure the fan blades are unobstructed for accurate readings.

4.4 Switching Units

- **Wind Speed:** Press the **UNIT** button to cycle through available wind speed units: meters per second (m/s), kilometers per hour (km/h), feet per minute (ft/min), knots, and miles per hour (mph).
- **Temperature:** Press the **T/RH** button to switch between Celsius (°C) and Fahrenheit (°F).

4.5 MAX/MIN/AVG Modes

Press the **MODE** button to cycle through different measurement display modes:

- **MAX:** Displays the maximum wind speed recorded since the device was powered on or the mode was reset.
- **MIN:** Displays the minimum wind speed recorded.
- **AVG:** Displays the average wind speed recorded.
- Press **MODE** again to return to real-time measurement.

4.6 Backlight and Flashlight

Press the **Backlight/Flashlight** button to activate the LCD backlight for improved visibility in dark conditions. Press it again to turn on the built-in flashlight. A third press will turn both off.

BACKLIT SCREEN & FLASHLIGHT



Flashlight

Flashlight function perfect for outdoor emergencies.



LCD Backlight

Large LCD screen with backlight for clear visibility in dark.



Image 4.2: The anemometer's backlit screen and flashlight in use.

4.7 CFM Calculation Application

The anemometer can assist in calculating Cubic Feet per Minute (CFM) for airflow. To do this, measure the wind speed (in ft/min) and then multiply it by the cross-sectional area of the vent or duct (in square feet). The formula is:

$$\text{Air Flow (CFM)} = \text{Wind Speed (ft/min)} \times \text{Duct Cross-Sectional Area (sq ft)}$$

5. MAINTENANCE

5.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the casing or display. Keep the fan blades free from dust and debris to ensure accurate readings.

5.2 Storage

When not in use, store the anemometer in its portable bag in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged (around 50%) to prolong its lifespan.

5.3 Battery Care

Recharge the battery when the low battery indicator appears on the display. Avoid fully discharging the battery frequently. Use only the provided Type-C USB cable for charging.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on.	Battery not connected or discharged.	Ensure the battery is properly connected (refer to Section 3.1). Charge the device using the Type-C USB cable.
Inaccurate wind speed readings.	Fan blades obstructed or damaged; incorrect positioning.	Check for debris in the fan blades. Ensure the device is pointed directly into the airflow. Avoid holding the device in a way that blocks the airflow to the sensor.
Display is dim or not visible.	Backlight is off; low battery.	Press the Backlight button to activate. Recharge the battery if the low battery indicator is shown.
Temperature/Humidity readings seem incorrect.	Sensor interference; device not acclimatized.	Ensure the device has been in the measurement environment for a few minutes to acclimatize. Avoid direct sunlight or heat sources affecting the sensor.

7. SPECIFICATIONS

Feature	Detail
Brand	GOYERRNES
Model	GR-8808
Wind Speed Range	0.67 to 67.1 mph (0.3 to 30 m/s)

Feature	Detail
Wind Speed Accuracy	±2% of reading
Temperature Range	14°F to 113°F (-10°C to 45°C)
Temperature Resolution	0.1°F / 0.1°C
Humidity Range	Not explicitly specified, but measured.
Display Type	LCD with Backlight
Power Source	Rechargeable Battery (Type-C USB charging)
Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions	3.1 x 1.4 x 8.2 inches (approx. 80 x 35 x 210 mm)
Item Weight	7.1 ounces (approx. 202 grams)
Special Features	Portable, Flashlight, Tripod Hole, Data Hold, MAX/MIN/AVG

8. WARRANTY AND SUPPORT

8.1 Warranty Information

GOYERRNES products are designed for reliability and performance. For specific warranty details regarding your GR-8808 Handheld Anemometer, please refer to the warranty card included in your product packaging or contact GOYERRNES customer support. Typically, a standard warranty covers manufacturing defects for a specified period from the date of purchase.

8.2 Customer Support

If you encounter any issues or have questions not covered in this manual, please contact GOYERRNES customer support. You can usually find contact information on the product packaging, the official GOYERRNES website, or through your retailer.