yowexa YW-561M

YOWEXA YW-561M Wind Speed Gauge User Manual

Model: YW-561M | Brand: YOWEXA

1. INTRODUCTION

The YOWEXA YW-561M is a portable digital anemometer designed for accurate measurement of wind speed and temperature. It is suitable for various applications including outdoor activities, HVAC system testing, drone operation, and environmental monitoring. This manual provides detailed instructions for the proper use and maintenance of your device.

Figure 1.1: The YOWEXA YW-561M Wind Speed Gauge, shown with its display and included AAA batteries.

Figure 1.2: The YW-561M is an essential tool for various outdoor activities and professional applications, including sailing, shooting, drone operation, and HVAC system checks.

2. SAFETY INFORMATION

- Do not expose the device to extreme temperatures or direct sunlight for extended periods.
- Avoid dropping the device or subjecting it to strong impacts.
- Keep the device away from water and high humidity.
- Remove batteries if the device will not be used for a long time to prevent leakage.
- Do not attempt to disassemble or modify the device.

3. PRODUCT OVERVIEW

3.1. Components

- **Wind Impeller:** The rotating fan at the top of the device, responsible for measuring wind speed.
- **LCD Display:** The screen that shows all measurement readings, units, and operational indicators.
- **Control Buttons:** Buttons located on the front panel for power, unit selection, mode changes (MAX/MIN), and data hold.
- **Battery Compartment:** Located on the rear of the device, housing the AAA batteries.

Figure 3.1: The YW-561M features an ergonomic and user-friendly design, highlighting its portable size and anti-slip grip for comfortable handling.

4. SETUP

4.1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open in the direction indicated.
3. Insert two (2) AAA batteries, ensuring that the positive (+) and negative (-) terminals match the markings inside the compartment.
4. Close the battery compartment cover securely until it clicks into place.

Note: The device requires 2 AAA batteries, which are included with the product. Always use fresh batteries for optimal performance.

5. OPERATING INSTRUCTIONS

The YW-561M is equipped with high-sensitivity probes to ensure accurate and rapid measurements of wind speed and temperature.

Figure 5.1: The YW-561M features high-sensitivity probes for faster and more precise measurements, as demonstrated by its responsiveness to airflow.

The device offers multiple functions to cater to various measurement requirements.

Figure 5.2: The YW-561M's display highlights its multiple functions, including wind speed and temperature measurement, LCD backlight, unit conversion, auto power off, and low power indication.

5.1. Power On/Off

- Press the **Power button** ( ) to turn the device on.

- Press and hold the **Power button** for approximately 2 seconds to turn the device off.

- The device features an auto shut-off function, powering down after 5 minutes of inactivity to conserve battery life.

Figure 5.3: The device automatically powers off after 5 minutes of no operation to extend battery life.

5.2. Unit Selection

- Press the **UNIT button** to cycle through different wind speed units: meters per second (m/s), miles per hour (mph), kilometers per hour (km/h), feet per minute (ft/min), and knots.
- The temperature unit can also be switched between Celsius (°C) and Fahrenheit (°F) using the same button.

Figure 5.4: The device supports five different wind speed units, allowing adaptation to various professional and personal measurement scenarios.

5.3. Measurement Modes (MAX/MIN/AVG)

- Press the **MAX/MIN button** to view the maximum (MAX), minimum (MIN), or average (AVG) wind speed recorded since the device was powered on or reset.
- Subsequent presses will cycle through MAX, MIN, AVG, and current readings.

5.4. Data Hold Function

- Press the **HOLD button** to freeze the current reading on the display. The 'HOLD' indicator will appear.
- Press the **HOLD button** again to release the data hold and resume live measurements.

5.5. Backlight

- Press the **Backlight button** (often indicated by a light bulb icon, or integrated with the Power button) to turn the LCD backlight on or off. This improves readability in low-light conditions.

Figure 5.5: The backlit screen ensures clear readability of measurements even in dim or dark environments.

5.6. Wind Chill Advisory

- The device displays a "WINDCHILL" advisory on the screen when the ambient temperature drops below 32°F (0°C) and the wind speed exceeds 5 m/s. This feature helps users assess potential cold weather risks.

Figure 5.6: The screen indicates "WINDCHILL" when conditions meet the criteria, alongside the corresponding Beaufort scale level.

5.7. Beaufort Scale

- The device also displays the wind speed according to the Beaufort scale (levels 1-12), providing an intuitive and widely recognized indication of wind conditions.

6. MAINTENANCE

6.1. Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as these can damage the casing or display.

- Ensure the wind impeller is free from dust, dirt, and debris for accurate readings. Gently clean with a soft brush if necessary.

6.2. Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures, when not in use.
- Remove batteries if storing for extended periods (more than one month) to prevent potential leakage and damage to the device.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new ones; check battery orientation (+/-).
Inaccurate readings.	Impeller obstructed or damaged; device not held correctly (airflow blocked); strong electromagnetic interference.	Clear any obstructions from the impeller; ensure unobstructed airflow to the impeller; move away from sources of electromagnetic interference.
Display is dim or blank.	Low batteries; backlight off.	Replace batteries; activate the backlight function.

8. SPECIFICATIONS

Feature	Detail
Model	YW-561M
Brand	YOWEXA
Power Source	2 x AAA batteries (included)
Product Dimensions (L x W x H)	16.3 x 2.8 x 5.3 cm (6.4 x 1.1 x 2.1 inches)
Weight	140 g (0.31 lbs)
Material	Acrylonitrile Butadiene Styrene (ABS)
Wind Speed Units	m/s, mph, km/h, ft/min, knots
Temperature Units	°C, °F
Auto Shut-off	Yes, after 5 minutes of inactivity
Display	LCD with backlight

9. WARRANTY AND SUPPORT

YOWEXA products are manufactured to high-quality standards. For specific warranty information, including duration and coverage, please refer to the documentation provided with your purchase. For technical support, product inquiries, or assistance with troubleshooting, please visit the official YOWEXA website or contact their customer service department. Please retain your proof of purchase for all warranty claims.