XEAST XE-365

XEAST XE-365 Digital Anemometer Instruction Manual

Model: XE-365

1. Product Overview

The XEAST XE-365 Digital Anemometer is a compact and robust device designed for precise measurement of wind speed, air temperature, and air flow. It features a large, easy-to-read LCD display and a user-friendly interface for straightforward operation. Equipped with an impeller sensor for reliable wind speed readings and a temperature sensor for real-time air temperature data, this anemometer is suitable for various applications requiring environmental data.

Key features include:

- Multiple wind speed units: m/s, km/h, ft/min, knots, MPH, CFM.
- Temperature units: °C, °F.
- Max/Min/AVG/HOLD wind speed functions.
- Battery level display.
- Automatic power-off function.
- Backlight for low-light conditions.
- Audible alarm.

Figure 1: Overview of XEAST XE-365 Anemometer features, including wind speed range (0.4~35 m/s), 5 wind speed units, MAX/MIN/AVG/HOLD functions, and audible alarm.

2. Setup and Battery Installation

The XEAST XE-365 Anemometer requires three AA batteries for operation. These batteries are included with the device.

2.1 Battery Installation

1. Locate the battery compartment on the rear of the device.
2. Open the battery compartment cover.
3. Insert three AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Figure 2: Product diagram illustrating the device components and controls, including the fan, LED indication light, LCD display, and various keys for menu, unit conversion, set, MAX/MIN, hold, and power.

3. Operating Instructions

3.1 Device Layout and Controls

Refer to Figure 2 for the location of the following controls:

- **Power ON/OFF Key:** Used to turn the device on or off.
- **MODE Key:** Accesses different measurement modes or settings.
- **SET Key:** Used to confirm selections or enter air area set mode.
- **UNITS Key:** Switches between different measurement units for wind speed and temperature.
- **HOLD Key:** Freezes the current reading on the display.
- **MAX Key:** Displays the maximum recorded value.

3.2 Powering On/Off

Press the **Power ON/OFF** key to turn the anemometer on. Press and hold the**Power ON/OFF** key to turn the device off.

3.3 Measuring Wind Speed, Air Flow, and Temperature

Once powered on, the device will automatically begin measuring wind speed, air flow, and temperature. Ensure the fan impeller is exposed to the airflow for accurate readings.

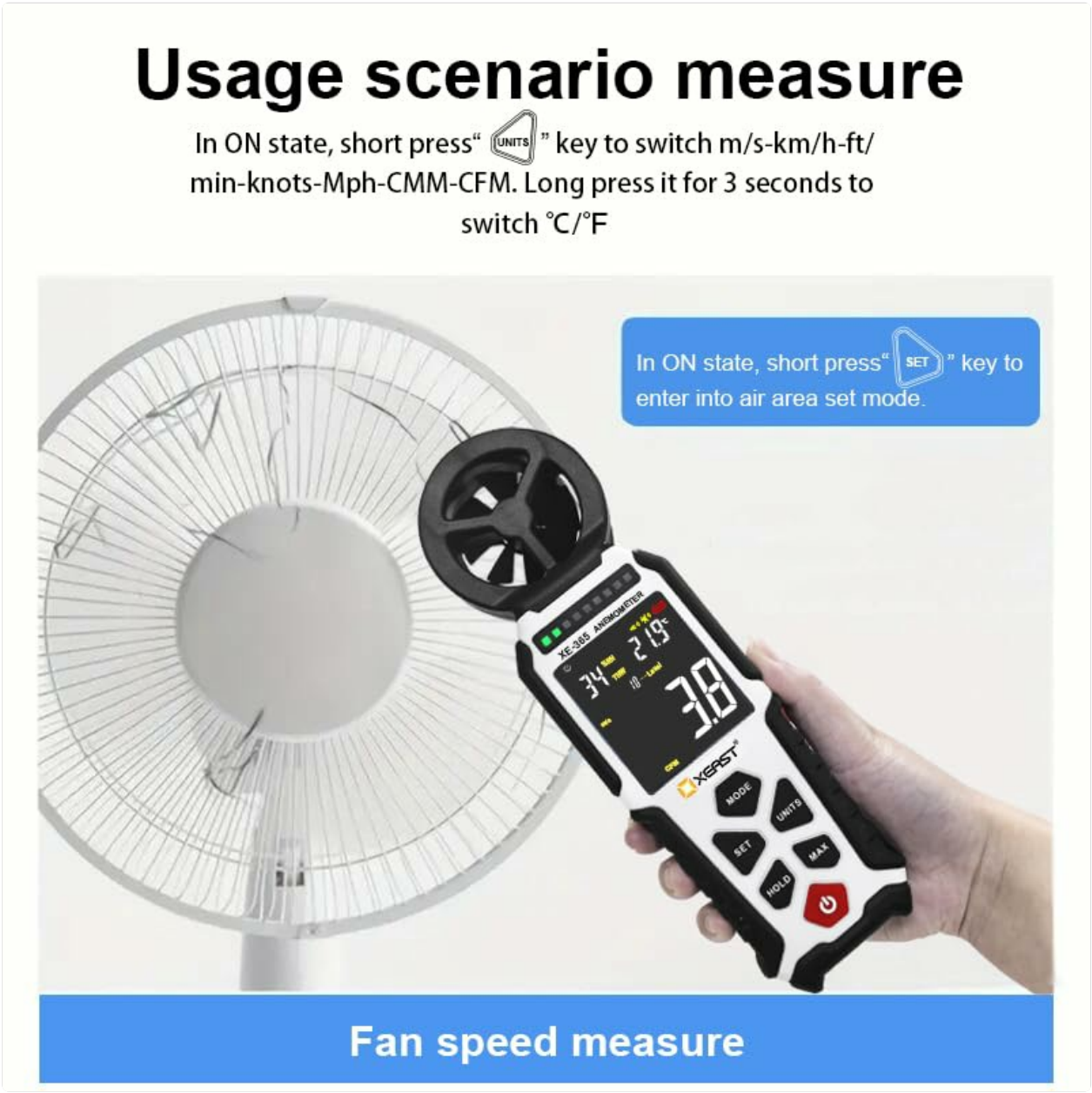

Figure 3: Anemometer in use for fan speed measurement. In ON state, short press the "UNITS" key to switch wind speed units (m/s, km/h, ft/min, knots, Mph, CMM, CFM). Long press for 3 seconds to switch temperature units (°C/°F). Short press "SET" key to enter air area set mode.

3.4 Unit Switching

- **Wind Speed Units:** In the ON state, short press the **UNITS** key to cycle through wind speed units: m/s, km/h, ft/min, knots, MPH, CMM, CFM.
- **Temperature Units:** In the ON state, long press the **UNITS** key for 3 seconds to switch between Celsius (°C) and Fahrenheit (°F).

3.5 Max/Min/AVG/HOLD Functions

- **HOLD:** Press the **HOLD** key to freeze the current reading on the display. Press again to release.
- **MAX:** Press the **MAX** key to display the maximum wind speed recorded since the device was powered on or the MAX function was reset.

- **MIN:** (Functionality may be combined with MAX or accessed via MODE key, refer to specific device display for indication).
- **AVG:** (Functionality may be combined with MAX or accessed via MODE key, refer to specific device display for indication).

3.6 Backlight and Audible Alarm

The device features a backlight for improved visibility in low-light conditions. An audible alarm can be configured for specific wind speed thresholds (refer to the device's display and MODE settings for activation and adjustment).

Figure 4: The digital anemometer displaying current readings. The device offers a wind speed range of 0.4~35 m/s with an accuracy of ±3% of reading + 0.3d.

4. Applications

The XEAST XE-365 Digital Anemometer is a versatile tool suitable for a wide range of applications, including:

- **Outdoor Activities:** Surfing, drone flying, kite flying, boating, golf, fishing, and other sports where wind conditions are critical.

- **HVAC Systems:** Measuring very low airflow in HVAC installations and duct vents.
- **Environmental Monitoring:** General monitoring of wind conditions.
- **Shooting and Archery:** Assessing wind drift for accuracy.

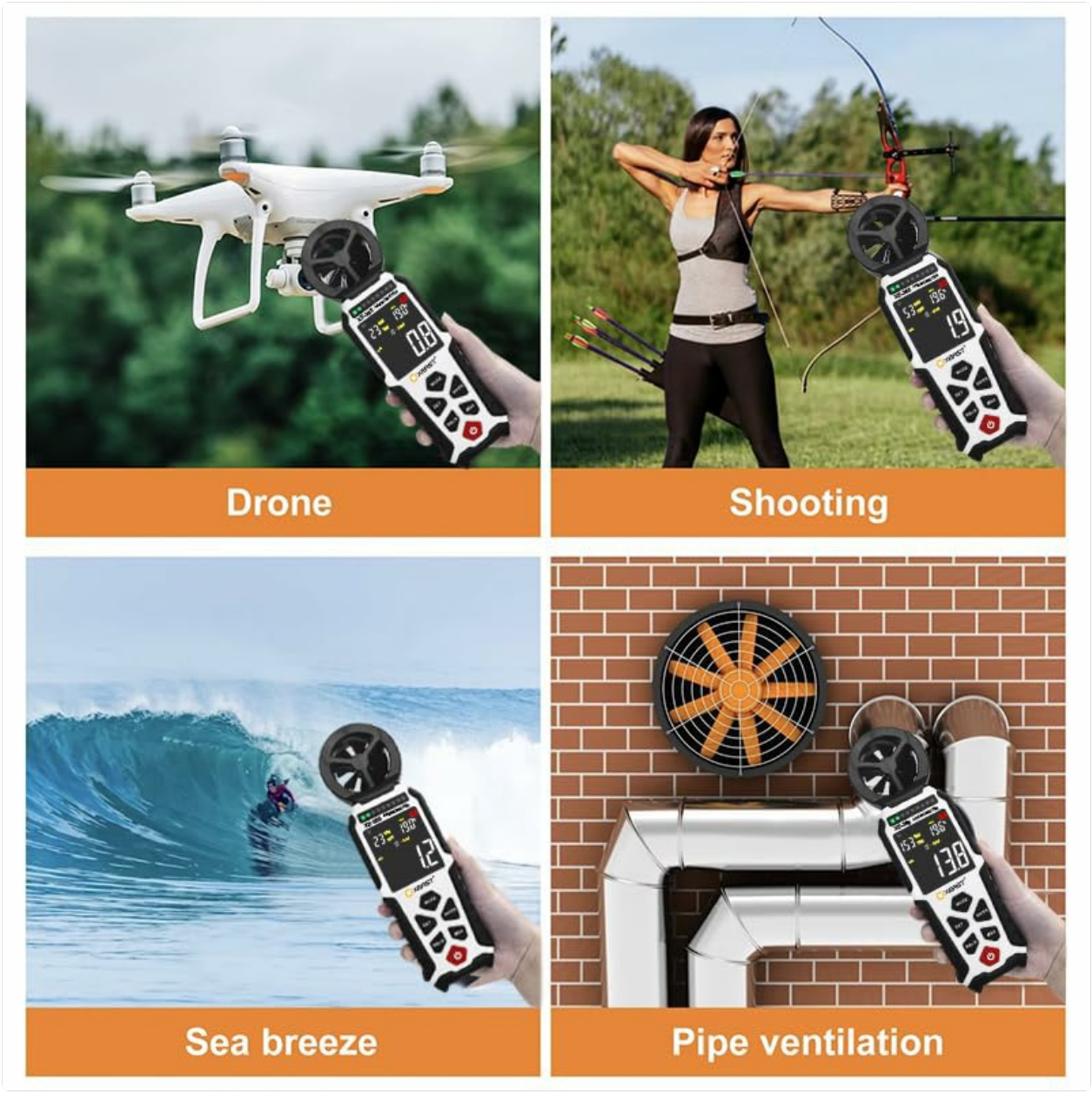

Figure 5: Examples of the anemometer's wide applications, including drone operation, shooting, measuring sea breeze, and pipe ventilation checks.

5. Maintenance

To ensure the longevity and accuracy of your XEAST XE-365 Digital Anemometer, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the impeller is free from dust and debris.
- **Storage:** Store the anemometer in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears on the display to maintain optimal performance.
- **Impeller Care:** Handle the impeller carefully to avoid damage. Ensure it spins freely.

6. Troubleshooting

If you encounter issues with your XEAST XE-365 Digital Anemometer, consider the following common troubleshooting steps:

- **Device not powering on:** Check if the batteries are correctly installed and have sufficient charge. Replace batteries if necessary.
- **Inaccurate readings:** Ensure the impeller is spinning freely and is not obstructed. Verify that the device is exposed to the actual airflow being measured. Check for any physical damage to the impeller or sensors.
- **Display issues:** If the display is dim or flickering, replace the batteries. If the display is blank, ensure the device is powered on.

For persistent issues, please contact customer support.

7. Specifications

Specification	Value
Item Model Number	XE-365
Brand	XEAST
Batteries	3 AA batteries required (included)
Product Dimensions	19.05 x 6.35 x 3.81 cm
Item Weight	226.8 g (0.5 Pounds)
Material	Plastic
Manufacturer	XEAST
Country of Origin	China
Included Components	Digital Anemometer, 3* AA Batteries, Manual, Type-C Cable, Carry Pouch

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact XEAST customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.