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> BTMETER BT-100WM Digital Anemometer Barometer User Manual

BTMETER BT100WM

BTMETER BT-100WM Digital Anemometer Barometer User Manual

Model: BT-100WM | Brand: BTMETER

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of the BTMETER BT-100WM Digital Anemometer Barometer. This device is a multi-functional instrument designed to measure various environmental parameters, including wind speed, wind temperature, wind chill, relative humidity, dew point, barometric pressure, and altitude. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage.

Nut Installable Design

Fix on tripod, for long-term fixed point measuring.

Note: The Tripod is NOT included



Screw Hole

+



Included

Width: 3.4in (85mm)



Length: 6.5in (165mm)

Height: 1.5in (38mm)



Image: The BTMETER BT-100WM Digital Anemometer Barometer, showing its compact design and display.

2. PRODUCT OVERVIEW AND FEATURES

The BTMETER BT-100WM is a versatile handheld device equipped with advanced sensors for accurate environmental monitoring. Its key features include:

- **Multifunctionality:** Measures wind speed, wind temperature, wind chill, relative humidity, dew point, barometric pressure, and altitude.
- **High Accuracy:** Provides precise readings for critical environmental data.
- **User-Friendly Interface:** Features an easy-to-read backlit LCD display and intuitive controls.
- **Data Logging:** Capable of recording barometric pressure data for analysis.
- **Battery Saving:** Automatic power-off function to conserve battery life.
- **Compact and Portable:** Designed for easy carrying and use in various outdoor and professional settings.

Function Overview

8-Leaves Vanes

Dual Temp Sensors

LCD Backlight Screen

Wind Unit Select
m/s, Km/h, ft/min,
knots, MPH

Power switch
Auto shut down in 10 mins

MAX/MIN/AVG Select
Long press to turn on/off backlit

Barometric Pressure
inHg/hpa mbar unit select
Long press to store Barometric
Pressure Data

Altitude Unit M/ FT Select
Long press to adjust AIR
PRESSURE, WIND:↓/ T/RH:↑

T/RH switch
°C, °F, RH%, DP-°C, DP-°F,
WCL-°C, WCL-°F



Image: Diagram illustrating the main components and functions of the BTMETER BT-100WM, including the 8-leaves vanes, LCD backlight screen, power switch, mode button, T/RH switch, Alt button, and Baro button.

The device incorporates an 8-leaf wind wheel with low friction bearing technology for accurate wind speed measurement and dual wind chill sensors for enhanced precision.



Image: Close-up view of the 8-leaf wind wheel and dual wind chill sensors, highlighting the low friction bearing technology for accurate measurements.

3. SETUP

3.1 Package Contents

Before first use, please verify that all items are present in the package:

- BTMETER BT-100WM Digital Anemometer Barometer
- Protective carrying case
- Lanyard
- Small screwdriver (for battery compartment)
- Instruction Manual (this document)

Package Included



Image: Contents of the product package, including the anemometer, carrying case, lanyard, screwdriver, and instruction manual.

3.2 Battery Installation

The device requires 2 AAA batteries (not included). To install the batteries:

1. Locate the battery compartment on the back of the device.
2. Use the provided small screwdriver to open the battery compartment cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover and secure it with the screw.

3.3 Attaching the Lanyard

Attach the included lanyard to the screw hole at the bottom of the device for secure handling and to prevent accidental

drops.



Image: The bottom of the device showing the screw hole for tripod mounting and lanyard attachment. A lanyard is shown attached. The device also features a nut-installable design for tripod mounting, allowing for long-term fixed-point measurements. **Note: The tripod is not included.**

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- Press the **red power button** to turn the device on.
- The device will automatically power off after 10 minutes of inactivity to save battery.
- To manually turn off, press and hold the **red power button** for a few seconds.

4.2 Display and Unit Selection

The backlit LCD screen displays various measurements. Use the following buttons to change units and modes:

- **Wind Unit Select (Mode button):** Press the **Mode** button to cycle through wind speed units: mph, ft/min, km/h, m/s, or knots.
- **Temperature/Humidity Switch (T/RH button):** Press the **T/RH** button to switch between temperature units (°C/°F), relative humidity (RH%), dew point (DP-°C/°F), and wind chill (WCL-°C/°F).
- **Altitude Unit Select (Alt button):** Press the **Alt** button to switch between altitude units (M/Ft). Long press to adjust air pressure.
- **Barometric Pressure Unit Select (Baro button):** Press the **Baro** button to cycle through barometric pressure units: inHg, hpa, or mbar. Long press to store barometric pressure data.

4.3 Measuring Wind Speed and Other Parameters

To obtain accurate readings, hold the device so that the wind flows directly into the 8-leaf wind wheel. The display will show real-time measurements.

- **MAX/MIN/AVG Select:** Long press the **Mode** button to view Maximum, Minimum, or Average wind speed readings.
- **Backlight:** Long press the **Mode** button (when not in MAX/MIN/AVG mode) to turn the backlight on or off.

4.4 Barometer Data Recording

The device can record up to 16 groups of barometric pressure data. To store data, long press the **Baro** button. Refer to the on-screen prompts for data retrieval and analysis.

5. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its protective carrying case in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** When the low battery indicator appears on the display, replace the batteries promptly with new AAA batteries.
- **Sensor Care:** Keep the wind wheel and sensors free from dust, dirt, and debris to ensure accurate readings. Avoid touching the sensors directly.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed.	Check battery polarity. Replace with new AAA batteries.
Inaccurate readings.	Wind wheel or sensors are obstructed/dirty. Device not held correctly.	Clean the wind wheel and sensors. Ensure wind flows directly into the vane.
Display is dim or flickering.	Low battery.	Replace batteries.
Cannot change units.	Incorrect button press or device in a specific mode.	Refer to Section 4.2 for correct button functions. Briefly power cycle the device.

If the problem persists, please contact BTMETER customer support.

7. SPECIFICATIONS

Model	BT-100WM
Brand	BTMETER
Wind Speed Range	0.67 ~ 67.1 mph (Accuracy: +/- 5%)
Wind Temperature Range	-10 ~ 45 °C (14 ~ 113 °F) (Accuracy: +/- 2 °C/°F)
Altitude Measurement Range	0 - 19685 Ft
Resolution	0.2 mph, 0.2 °C, 0.1% RH
Power Source	2 x AAA Batteries (not included)
Display Type	LCD with Backlight
Auto Power Off	After 10 minutes of inactivity
Material	Plastic
Dimensions (L x W x H)	16.5 x 8.5 x 3.8 cm (6.5 x 3.4 x 1.5 inches)
Weight	150 Grams
Country of Origin	China
Specific Uses	Wind chill, Pressure, Dew point, Temperature, Humidity, Wind speed



Image: Diagram showing the dimensions of the BTMETER BT-100WM device: 165mm length, 85mm width, and 38mm depth.

8. WARRANTY AND SUPPORT

The BTMETER BT-100WM comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use. For technical assistance, troubleshooting, or warranty claims, please contact BTMETER customer support. Professional 24/7 fast and effective technical support is available to assist you with any issues or questions you may have. For further information or to contact support, please visit the official BTMETER website or refer to the contact details provided in your product packaging.

9. USAGE EXAMPLES

The BTMETER BT-100WM is suitable for a wide range of applications:

- **Outdoor Activities:** Ideal for long-range shooting, hunting, sailing, kite flying, and climbing, helping users monitor wind speed, temperature, air pressure, altitude, humidity, and dew point in real-time.
- **Drone Piloting:** Essential for assessing wind conditions before and during drone operations.
- **HVAC Testing:** Useful for measuring CFM (Cubic Feet per Minute) airflow in heating, ventilation, and air conditioning systems.
- **Weather Monitoring:** Can serve as a compact weather station for personal or professional use.



Must Have for Climbing

It helps you to monitor Wind Speed, Temp, Air Pressure, Altitude, Humidity, Dew Point in real time.

Image: A person using the BTMETER BT-100WM during a climbing activity to monitor environmental conditions.



Image: The BTMETER BT-100WM being used as a handheld HVAC anemometer for CFM air flow measurement.

