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Benetech GM8910

Benetech GM8910 Multifunctional Anemometer User Manual

Model: GM8910

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1. INTRODUCTION

The Benetech GM8910 is an 8-in-1 multifunctional anemometer designed for comprehensive environmental monitoring. This portable device accurately measures various parameters including wind speed, temperature, humidity, wind chill, dew point, atmospheric pressure, altitude, and illumination. It is suitable for a wide range of outdoor activities and professional applications such as HVAC, sailing, flying, surfing, drone operation, golf, and shooting.

Its compact and lightweight design ensures ease of use and portability, allowing you to gather essential weather data anytime, anywhere.

8-in-1



Wind Speed

Range: 0.7 to 30 m/s
Accuracy: $\pm 0.3\text{m/s}$



Temperature

Range: 4 to 140°F
Accuracy: $\pm 1.0^\circ\text{C}$



Humidity

Range: 0 to 100%RH
Accuracy: $\pm 5\%\text{RH}$



Wind chill

Range: -40 to 50°F
Accuracy: $\pm 2.0^\circ\text{C}$



Dew Point

Range: -40 to 140°F
Accuracy: $\pm 2.0^\circ\text{C}$



Altitude

Range: -500 to 9000m



Barometric Pressure

Range: 300 to 1100hPa
Accuracy: $\pm 1.0\text{hPa}$



Illumination

Range: 0 to 55000Lx
Accuracy: $\pm 3\%$



Figure 1: The GM8910 anemometer highlighting its 8-in-1 measurement capabilities including wind speed, temperature, humidity, wind chill, dew point, barometric pressure, altitude, and illumination.

Lightweight & Portable

Measure the wind anytime, anywhere.



Figure 2: The GM8910 anemometer demonstrating its lightweight and portable design, with dimensions of 122 x 48 x 21mm and a weight of 70g.

2. PACKAGE CONTENTS

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

- 1 x Benetech GM8910 Multifunctional Anemometer
- 2 x AAA Batteries
- 1 x User Manual (this document)
- 1 x Lanyard

Multifunction

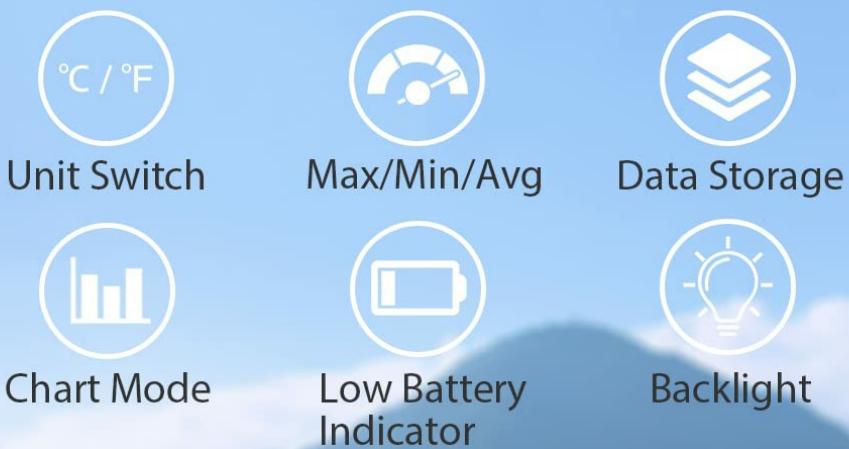


Figure 3: The Benetech GM8910 anemometer shown with its included accessories.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert two AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

The device is now ready for use. Press the power button to turn it on.

4. OPERATION

4.1 Controls and Display

Familiarize yourself with the device's buttons and display elements for effective operation.



Figure 4: Detailed illustration of the GM8910's LCD display components and the functions of its control buttons.

- **FUNC. Button:** Used for navigating menus, selecting options, and confirming entries.
- **UNIT/ESC Button:** Used for switching measurement units and exiting menus or modes.
- **Power Button:** Turns the device on and off.

4.2 Basic Measurements

Upon powering on, the device will typically display real-time measurements. Hold the device in the desired

environment for accurate readings. Ensure the wind impeller is unobstructed for wind speed measurements.

4.3 Unit Selection

The GM8910 supports multiple units for various measurements. To switch units:

1. Press the **UNIT/ESC** button to cycle through available units for the currently displayed measurement.
2. For other measurements, navigate to the specific measurement display using the **FUNC.** button, then press **UNIT/ESC**.

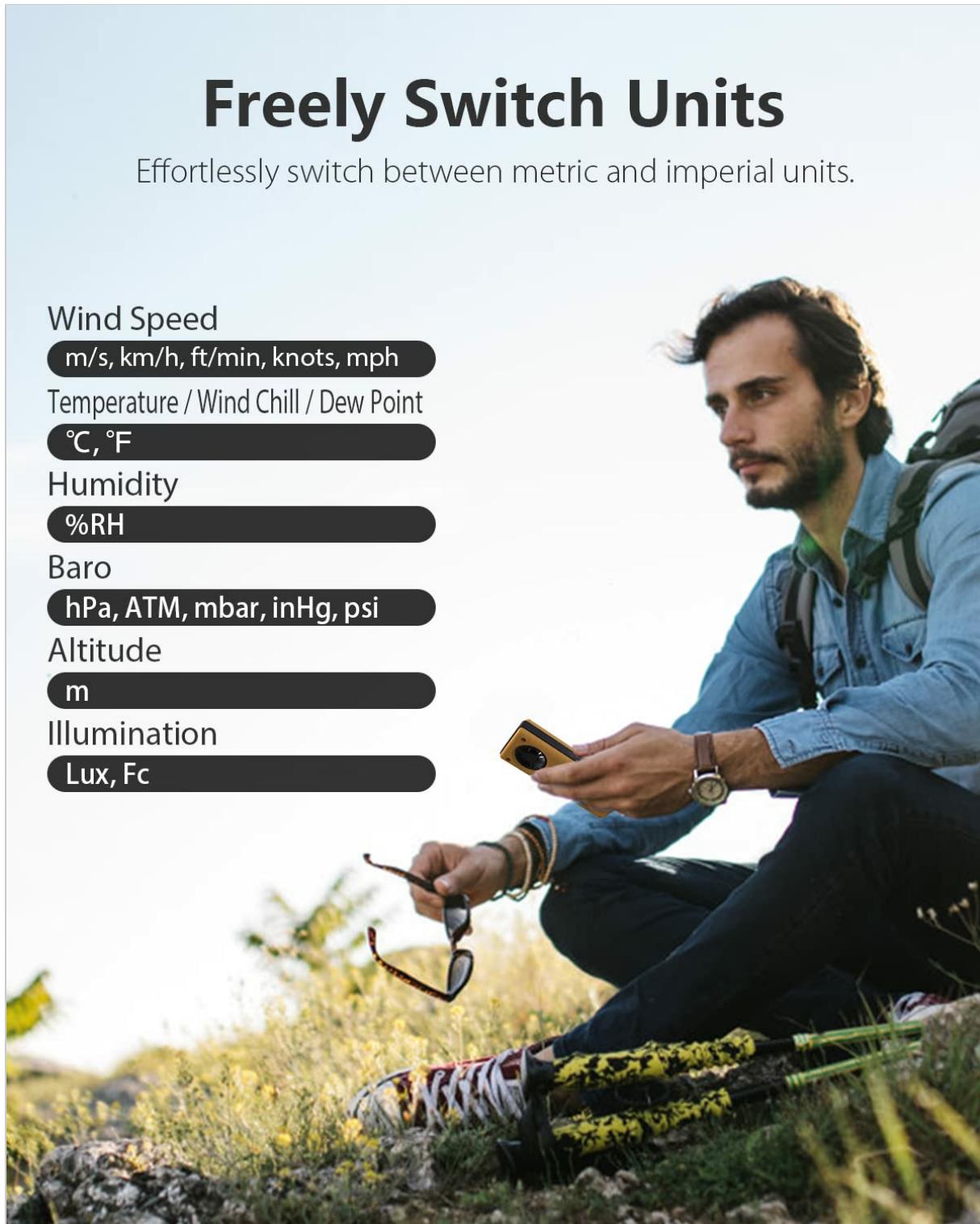


Figure 5: The device's capability to switch between various units for wind speed (m/s, km/h, ft/min, knots, mph), temperature (°C/F), humidity (%RH), barometric pressure (hPa, ATM, mbar, inHg, psi), altitude (m), and illumination (Lux, Fc).

4.4 Data Logging and Storage

The device can store up to 200 groups of data, either manually or automatically.

- **Manual Data Logging:** Refer to the 'Illustrations' diagram (Figure 4) for the specific button sequence to save current sensor data.
- **Automatic Data Logging:** The device can be configured for automatic data recording. Consult the on-screen menu options for setting intervals and starting automatic logging.
- **Viewing Stored Data:** Use the navigation buttons to access the data viewing interface and review recorded measurements (max/min/average/current values).



Figure 6: The GM8910's data viewing interface, capable of storing up to 200 data groups for later review.

4.5 Special Features

The GM8910 includes several features to enhance usability:

- **Max/Min/Avg Display:** View the maximum, minimum, and average values of recorded data.
- **Chart Mode:** Visualize data trends over time.
- **Low Battery Indicator:** An icon on the display will alert you when batteries need replacement.
- **Auto Power Off:** The device will automatically power off after a period of inactivity to conserve battery life.
- **Backlight:** The LCD display features a backlight for improved visibility in low-light conditions.

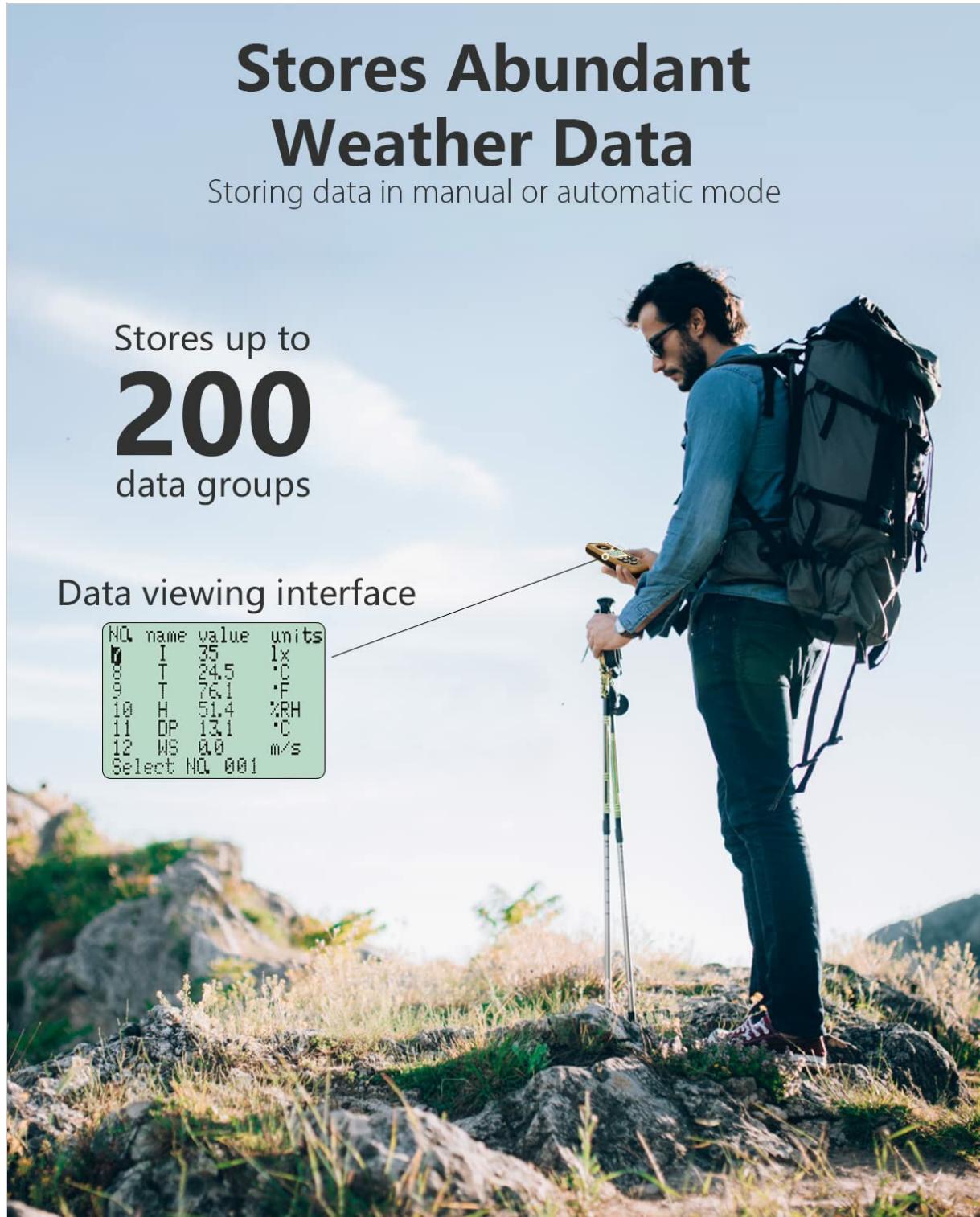


Figure 7: Icons representing the multifunctionality of the GM8910, including unit switch, max/min/avg, data storage, chart mode, low battery indicator, and backlight.

5. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the anemometer in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings and prevent data loss.
- **Impeller Care:** Keep the wind impeller free from dust, dirt, and obstructions to maintain accurate wind speed measurements. Avoid touching the impeller blades directly.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with new AAA batteries.
Inaccurate wind speed readings.	Impeller obstructed or damaged.	Ensure the impeller is clean and rotates freely. Avoid holding the device in a way that blocks airflow to the impeller.
Readings are in unfamiliar units (e.g., metric instead of imperial).	Default unit settings.	Press the UNIT/ESC button to cycle through available units for the displayed measurement. Refer to Section 4.3.
Display is dim or unreadable.	Low battery or backlight off.	Replace batteries. Activate the backlight function if available (refer to Section 4.1).
Data logging not working.	Memory full or incorrect logging mode selected.	Check available memory. Ensure manual or automatic logging is correctly initiated.

7. SPECIFICATIONS

Feature	Detail
Model	GM8910
Brand	Benetech
Measurements	Wind Speed, Temperature, Humidity, Wind Chill, Dew Point, Atmospheric Pressure, Altitude, Illumination
Wind Speed Range	0.7 to 30 m/s (max 65 mph)
Wind Speed Accuracy	±3%
Wind Speed Resolution	0.1 m/s
Temperature Range	-4 to 140°F (-20 to 60°C)
Temperature Accuracy	±1°C
Humidity Range	0 to 100%RH

Feature	Detail
Humidity Accuracy	±5%RH
Wind Chill Range	-40 to 50°C
Dew Point Range	-40 to 140°F (-40 to 60°C)
Barometric Pressure Range	300 to 11000 hPa
Barometric Pressure Accuracy	±1.0 hPa
Altitude Range	-500 to 9000 m
Illumination Range	0 to 55000 Lx
Illumination Accuracy	±3%
Data Storage	Up to 200 data groups (manual or automatic)
Display Type	LCD with Backlight
Power Source	2 x AAA Lithium Metal batteries (included)
Auto Power Off	Yes
Dimensions	1.89 x 0.83 x 4.8 inches (122 x 48 x 21 mm)
Weight	2.47 ounces (70 grams)
Material	Plastic
Color	Yellow and Black

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Benetech GM8910 Multifunctional Anemometer comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Benetech customer support. Refer to the contact information provided on the product packaging or the official Benetech website.