GOLDCHAMP GC-866B-WM

GOLDCHAMP GC-866B-WM Digital Anemometer User Manual

Your comprehensive guide to operating and maintaining your GOLDCHAMP Digital Anemometer.

1. Introduction

The GOLDCHAMP GC-866B-WM is a professional, multi-functional digital anemometer designed for accurate measurement of wind speed, temperature, wind chill, and battery status. This portable device also integrates sensors for relative humidity, dew point, altitude, and barometric pressure, making it a versatile tool for various applications. Its compact size and lightweight design make it ideal for outdoor activities such as shooting, sailing, drone operation, climbing, cycling, and more, as well as for professional use in HVAC systems or environmental monitoring.

Figure 1: The GOLDCHAMP GC-866B-WM Digital Anemometer, shown with its carrying case and included batteries.

2. Safety Information

Please read all safety warnings and instructions carefully before using the device to ensure safe and proper operation. Keep this manual for future reference.

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage.
- Keep the device away from strong magnetic fields.
- Ensure batteries are inserted with correct polarity. Remove batteries if the device will not be used for an extended period.
- Dispose of batteries and the device according to local regulations.

3. Product Overview

The GOLDCHAMP GC-866B-WM features a robust design with an 8-leaf wind wheel and a clear LCD display for easy readings.

Figure 2: Key features of the GOLDCHAMP GC-866B-WM Digital Anemometer.

3.1 Components and Features

1. **8 Sensitive Vanes:** For accurate wind speed measurement.
2. **Dual Wind Chill Sensors:** Provide precise wind chill readings.
3. **1.5" Big Backlit LCD:** Ensures clear readability in various lighting conditions.
4. **ON/OFF Switch:** Powers the device on or off. Features auto-shutdown after 10 minutes of inactivity to conserve battery.
5. **Unit Button:** Cycles through wind speed units (m/s, km/h, ft/min, knots, mph).
6. **Barometric Pressure Button:** Displays barometric pressure in Ha/hpa mbar units. Long press to store barometric pressure data.

7. **MAX/MIN/AVG Button:** Toggles between maximum, minimum, and average readings. Long press to turn on/off the backlight.
8. **T/RH Switch:** Displays temperature and relative humidity. Cycles through °C, °F, RH%, DP (Dew Point), WCL (Wind Chill).
9. **Altitude Unit M/FT Select:** Selects altitude unit (meters or feet). Long press to adjust air pressure.

Figure 3: Close-up views of the 8-leaf wind wheel, dual wind chill sensor, and battery compartment.

Figure 4: The large LCD screen with backlight for clear readings in any environment.

4. Setup

4.1 Battery Installation

The GOLDCHAMP GC-866B-WM requires two 1.5V AAA batteries (included). Follow these steps to install them:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover downwards to open the compartment.
3. Insert two AAA batteries, ensuring the correct polarity (+ and -) as indicated inside the compartment.
4. Close the battery compartment cover by sliding it upwards until it clicks into place.

Figure 5: The device is lightweight and portable, and the battery compartment is easily accessible for installation.

5. Operating Instructions

5.1 Power On/Off

Press the red **ON/OFF** button to power on the device. The LCD screen will illuminate. To power off, press the **ON/OFF** button again. The device also features an automatic shutdown after 10 minutes of inactivity to save battery life.

Figure 6: The device automatically shuts down after 10 minutes of inactivity.

5.2 Measuring Wind Speed

Hold the anemometer so that the wind flows directly through the 8-leaf wind wheel. The current wind speed will be displayed on the LCD screen. Press the **UNIT** button to cycle through different wind speed units: m/s, km/h, ft/min, knots, and mph.

Figure 7: Measuring wind speed in an outdoor environment.

5.3 Measuring Temperature, Humidity, Dew Point, and Wind Chill

Press the **T/RH** button to cycle through temperature (°C/°F), relative humidity (RH%), dew point (DP), and wind chill (WCL) readings. The corresponding value will be shown on the display.

Figure 8: The anemometer can be used to measure airflow and temperature from HVAC systems.

5.4 Measuring Barometric Pressure and Altitude

Press the **BARO** button to display the barometric pressure. Long press the**BARO** button to store barometric pressure data. Press the **ALT** button to display altitude. Long press the**ALT** button to adjust air pressure for accurate altitude readings.

Figure 9: The anemometer's display showing various environmental measurements.

5.5 MAX/MIN/AVG Readings and Backlight

Press the **MAX/MIN/AVG** button to cycle through maximum, minimum, and average recorded values for the current measurement. Long press this button to toggle the LCD backlight on or off, improving visibility in low-light conditions.

6. Maintenance

6.1 Cleaning

To clean the device, wipe it gently with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Ensure the wind wheel is free from dust and debris for accurate readings.

6.2 Storage

When not in use for extended periods, remove the batteries to prevent leakage and store the device in its protective carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new ones; ensure batteries are inserted with correct + and - orientation.
Inaccurate wind speed readings.	Wind wheel obstructed; device not facing wind correctly.	Clear any debris from the wind wheel; ensure the device is positioned directly into the wind.
Display is dim or flickering.	Low battery power.	Replace batteries.
Backlight not working.	Backlight is off; low battery.	Long press the MAX/MIN/AVG button to turn on backlight; replace batteries.

Figure 10: The low battery indicator on the LCD display.

8. Specifications

Parameter	Value
Model Number	GC-866B-WM
Wind Speed Range	0.67 ~ 67.1 mph (0.3 ~ 30 m/s)
Wind Speed Accuracy	+/- 5% of measured values
Wind Speed Units	m/s, km/h, ft/min, knots, mph
Temperature Range	-10 ~ 45 °C (14 ~ 113 °F)
Temperature Accuracy	+/- 2 °C (35.6 °F)
Resolution	0.1 m/s, 0.2 °C
Additional Measurements	Relative Humidity, Dew Point, Altitude, Barometric Pressure, Wind Chill
Power Source	2 x 1.5V AAA Batteries

Parameter	Value
Automatic Shutdown	Yes, after 10 minutes of inactivity
Dimensions (L x W x H)	18.9 x 11.8 x 5.7 cm (7.44 x 4.65 x 2.24 inches)
Weight	300 Grams (0.66 lbs)
Material	Plastic

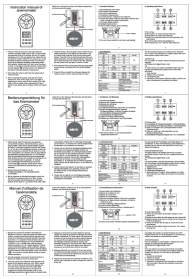
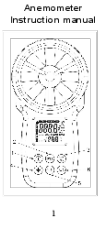
9. Warranty and Support

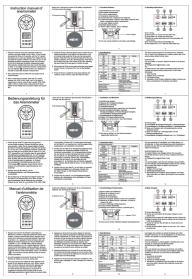
For any questions or issues regarding your GOLDCHAMP GC-866B-WM Digital Anemometer, please contact GOLDCHAMP customer service. We are committed to providing excellent support and will respond to your inquiries within 24 hours.

Please refer to your purchase documentation for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.

Manufacturer: GOLDCHAMP

Related Documents - GC-866B-WM

	GOLDCHAMP Digital Anemometer Instruction Manual - Wind Speed Measurement Guide Comprehensive user manual for the GOLDCHAMP Digital Anemometer. Learn how to measure wind speed, air volume, and understand its features and specifications for HVAC, drone, and outdoor use.
	GOLDCHAMP DT-4070L 3 1/2 Digital LCR Multimeter Operation Manual Operation manual for the GOLDCHAMP DT-4070L 3 1/2 digital LCR multimeter. Covers introduction, panel layout, specifications for resistance, capacitance, inductance, and transistor hFE testing, usage instructions, and maintenance.
	HoldPeak 866B Digital Anemometer Instruction Manual Comprehensive instruction manual for the HoldPeak 866B Digital Anemometer, detailing its functions, operation, specifications, and safety guidelines for measuring wind speed and temperature.

	[GOLDCHAMP Digital Anemometer Instruction Manual - Wind Speed Measurement Guide] Comprehensive user manual for the GOLDCHAMP Digital Anemometer. Learn how to measure wind speed, air volume, and understand its features and specifications for HVAC, drone, and outdoor use.
	[Ambient Weather WM-4 Wind Meter User Manual] Comprehensive user manual for the Ambient Weather WM-4 wind meter, detailing setup, operation of wind speed, direction, temperature, and humidity functions, calibration, battery replacement, and warrantly information.
	[Ambient Weather WM-2 Handheld Wind Meter User Manual: Features, Specifications, and Troubleshooting] Comprehensive user manual for the Ambient Weather WM-2 handheld wind meter. Learn about wind speed, temperature, and wind chill measurements, device operation, features, specifications, and troubleshooting. Includes a link to download the latest version.