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## Aideepen GXQA0121-002

# Aideepen DC8-100V Digital Battery Monitor with Temperature Alarm

Model: GXQA0121-002
Brand: Aideepen

### Introduction

The Aideepen DC8-100V Digital Battery Monitor is a versatile device designed to accurately display battery capacity, voltage, and temperature. It supports various battery types, including lithium, lead-acid, and lithium iron phosphate (LiFePO4) batteries, across a wide voltage range from 8V to 100V. This monitor features a clear color LCD display for easy readability from any angle and includes multiple protection functions such as input reverse polarity protection and power-off memory. An integrated temperature alarm and the ability to switch between voltage and temperature displays enhance its utility for a range of applications, including motorcycles, cars, caravans, and boats.

### Setup Instructions

Follow these steps to properly set up your Aideepen Digital Battery Monitor:

1. **Wiring Connection:** Connect the red wire to the positive (+) terminal of your battery and the black wire to the negative (-) terminal. Ensure a secure connection to prevent power interruptions.
2. **Initial Battery Type Setting:** Upon first connection or after a reset, you will need to configure the battery type. Press the 'SET' button to enter the settings menu. Use the 'SET' button to cycle through the options (e.g., 1-P for lead-acid, 2-L for ternary lithium, 3-F for LiFePO4). Once the desired battery type is selected, press and hold the 'SET' button to confirm and exit.
3. **Temperature Sensor:** The monitor includes a temperature sensor. Ensure it is positioned to accurately measure the ambient temperature or the temperature of the component you wish to monitor.




Figure 1: Product overview showing buttons and connection points.




Figure 2: Settings menu for selecting battery type (Lead-acid, Ternary Lithium, LiFePO4).

## Operating Instructions

The battery monitor is designed for straightforward operation:

- **Power On/Off:** The device powers on automatically when connected to a power source within its operating voltage range. There is a dedicated switch button for power control.
- **Display Modes:** The LCD clearly displays battery capacity (percentage), voltage (V), and temperature (°C). Short press the 'Switch' button to toggle between displaying voltage and temperature.
- **Temperature Alarm:** The monitor supports a buzzer alarm function for temperature. To set the alarm, enter the settings menu using the 'SET' button and navigate to the temperature alarm setting (refer to Figure 2 for menu navigation). Adjust the desired temperature threshold.
- **Battery Capacity Indication:** The battery icon on the display visually represents the remaining capacity, complemented by a percentage value for precise monitoring.




Figure 3: Monitor displaying temperature and battery capacity.




Figure 4: Example of voltage and temperature display modes.

## Maintenance

To ensure the longevity and accurate performance of your battery monitor, consider the following maintenance tips:

- **Cleaning:** Gently wipe the display and casing with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the screen or housing.
- **Storage:** When not in use for extended periods, store the monitor in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.

## Troubleshooting

If you encounter issues with your Aideepen Digital Battery Monitor, refer to the following common problems and solutions:

- **No Display:**

- Check if the power wires are correctly connected to the battery terminals (red to positive, black to negative).
- Ensure the battery voltage is within the DC8-100V operating range.
- Verify that the power switch (if applicable) is in the 'ON' position.

- **Incorrect Readings:**
  - Confirm that the correct battery type (lithium, lead-acid, LiFePO4) and cell count are selected in the settings menu. Incorrect settings will lead to inaccurate capacity and voltage readings.
  - Check for loose wiring connections that might affect voltage sensing.
  - If voltage calibration is available, perform a calibration according to the device's advanced settings.
- **Temperature Alarm Not Functioning:**
  - Ensure the temperature alarm threshold is set correctly in the settings menu.
  - Verify that the buzzer is not obstructed or damaged.
- **Display Flickering:**
  - Check for unstable power supply or loose connections.
  - Ensure the operating environment is within the specified temperature and humidity limits.

## Specifications

| Feature | Specification |
| --- | --- |
| Brand | Aideepen |
| Model Number | GXQA0121-002 |
| Operating Voltage Range | DC 8V - 100V |
| Measurement Accuracy | +/-0.5% |
| Display Type | Color LCD |
| Supported Battery Types | Lithium, Lead-Acid, LiFePO4 |
| Features | Temperature Alarm, Power-off Memory, Calibration Voltage, Time Display, Reverse Polarity Protection |
| Item Weight | 30 g |
| Dimensions | 12 x 10.7 x 2.9 cm (Package Size) |

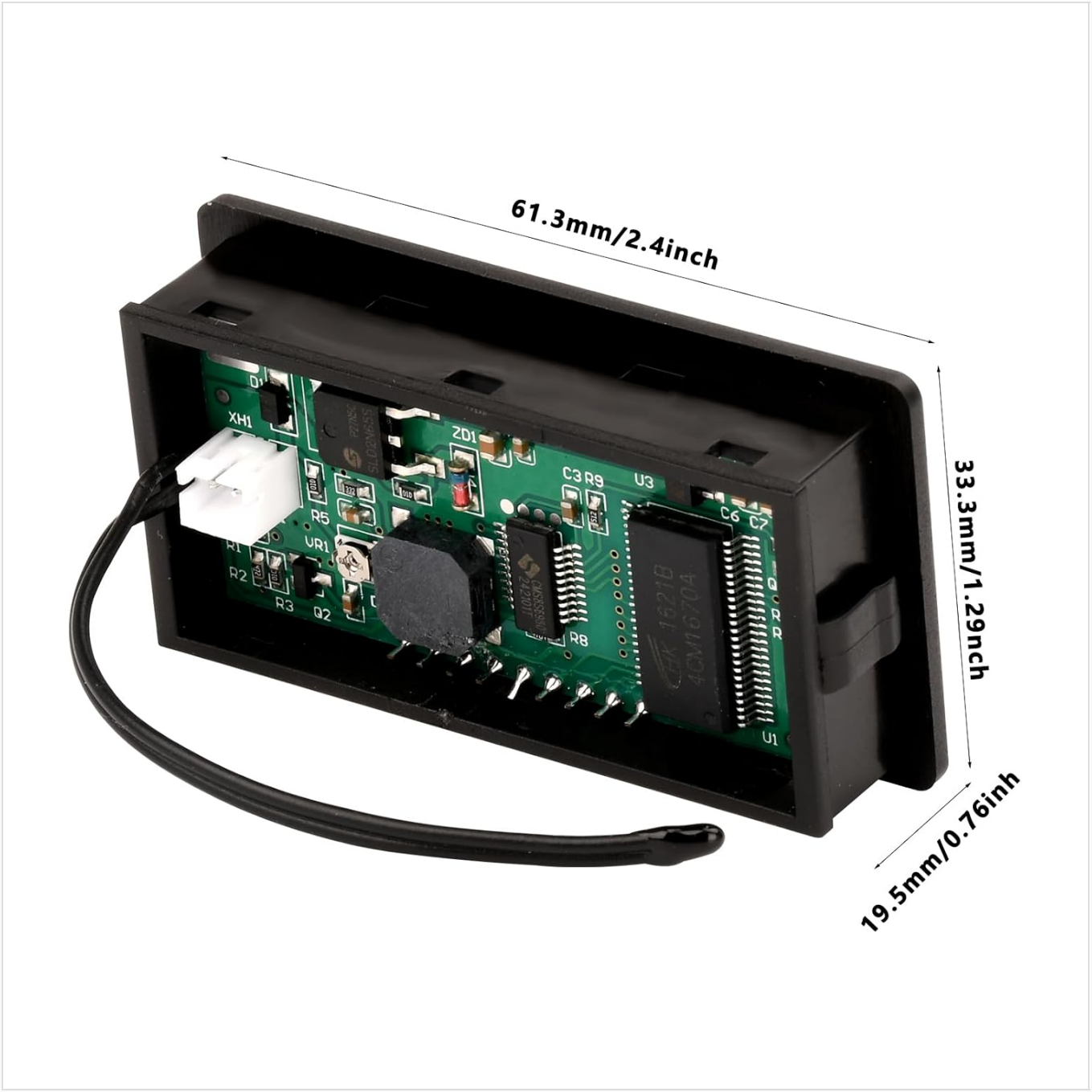



Figure 5: Product dimensions.

## Warranty and Support

Aideepen is committed to providing high-quality products and customer satisfaction.

- **Warranty:** Each product purchased from Aideepen comes with a 24-month service period. If you encounter any quality issues with the item during this period, you are eligible for a new replacement.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact Aideepen customer service through the official Aideepen store on Amazon or via the contact information provided with your purchase.

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