DAIERTEK DS4010+DS2

DAIERTEK Battery Voltage Meter DS4010+DS2 Instruction Manual

Model: DS4010+DS2 | Brand: DAIERTEK

1. Introduction

The DAIERTEK DS4010+DS2 Battery Voltage Meter is designed for real-time monitoring of DC voltage in various applications, including marine, automotive, and recreational vehicles. This waterproof digital voltmeter provides a clear blue LED display for easy voltage status checks, helping to ensure optimal battery health and performance.

2. Product Features

- **Versatile Mounting Options:** The 12V round voltmeter includes a panel and a nylon nut, allowing for separate mounting in a 29mm diameter hole or fixed installation on the matching panel to suit various needs.
- **Clear Blue LED Display:** Designed for DC 12V and 24V systems, the blue LED light provides real-time voltage status monitoring, especially useful in low-light conditions.
- **Waterproof Design:** The marine voltmeter gauge features a waterproof construction, ensuring safe operation in moist environments.
- **Wide Application:** Suitable for 12V and 24V cars, automotive vehicles, motorcycles, RVs, SUVs, Off-road vehicles, ATVs, boats, marine vessels, ships, trucks, and tractors.
- **Accurate Measurement:** With a rating of DC 8-48V and an accuracy of 0.1V, this 3-digit LED digital voltmeter provides precise monitoring of battery voltage, contributing to extended battery life.
- **Easy Installation:** Comes with a set of wires, two mounting screws, a matching panel, and a nylon nut for straightforward setup.

3. Package Contents

Please verify that all items are present in the package:

- 1 x DAIERTEK Battery Voltage Meter (DS4010+DS2)

- 1 x Mounting Panel
- 1 x Nylon Nut
- 1 x Set of Connection Wires
- 2 x Mounting Screws

4. Specifications

Brand	DAIERTEK
Model Number	DS4010+DS2
Measurement Type	Voltmeter
Minimum Operating Voltage	8V DC
Maximum Operating Voltage	48V DC
Accuracy	0.1V
Display Color	Blue LED
Waterproof Rating	Yes (Waterproof design)
Compatible Devices	DC 12V, 24V, 36V systems (cars, boats, motorcycles, RVs, etc.)
Power Source	Battery Powered
Dimensions (Approx.)	Panel: 2.4" x 1.7", Meter Diameter: 1.4", Mounting Hole: 1.1"

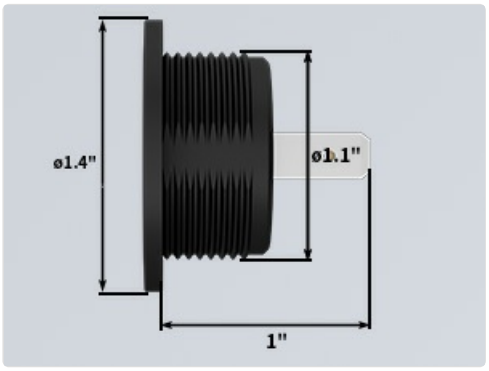

Image: Detailed dimensions of the DAIERTEK Battery Voltage Meter and its mounting panel. The meter has a 1.4-inch diameter, requiring a 1.1-inch mounting hole. The panel measures 2.4 inches by 1.7 inches.

5. Installation Guide

1. **Choose Mounting Location:** Select a suitable flat surface on your vehicle, boat, or equipment. Ensure there is enough space behind the panel for wiring.
2. **Prepare Mounting Hole:**
    - If using the provided panel, mark the positions for the two mounting screws.
    - For flush mounting the meter directly, drill a 29mm (approximately 1.1 inches) diameter hole.
3. **Insert Voltmeter:**
    - If using the panel, insert the voltmeter into the panel's circular opening.

- Secure the voltmeter to the panel using the nylon nut from the back.
- Then, attach the assembled unit to your chosen surface using the two mounting screws.

4. **Wiring Connections:**
    - Connect the **red wire** from the voltmeter to the positive (+) terminal of your DC power source (e.g., battery or ignition-switched positive).
    - Connect the **black wire** from the voltmeter to the negative (-) terminal of your DC power source or a suitable ground point.
    - Ensure connections are secure and insulated to prevent short circuits.
5. **Test Operation:** Once wired, apply power to the circuit. The voltmeter display should illuminate and show the current voltage.

Image: Visual guide for installing the voltmeter, showing how the meter fits into the panel and the basic wiring connection to a battery. The red wire connects to positive (+), and the black wire connects to negative (-).

Image: The DAIERTEK Battery Voltage Meter with its included wiring harness, featuring spade connectors and ring terminals for easy connection.

6. Operating Instructions

The DAIERTEK Battery Voltage Meter operates automatically once connected to a power source within its specified voltage range (DC 8-48V).

- **Real-time Voltage Display:** The blue LED screen will continuously show the current DC voltage of the connected system.
- **Interpreting Readings:**

Voltage Range	Status
Less than 12V	Battery low. Charge or replace the battery as soon as possible.
12V - 12.8V	Normal voltage range before starting the engine/system.

12.8V - 14.8V	Normal voltage range after starting the engine/system (indicating charging).

- **Visibility:** The blue LED display is designed for clear visibility in various lighting conditions, including dark environments.

Image: The DAIERTEK Battery Voltage Meter displaying a reading of 12.5V, accompanied by a table explaining typical voltage ranges and their corresponding battery status (low, normal before starting, normal after starting).

7. Maintenance

The DAIERTEK Battery Voltage Meter is designed for durability and requires minimal maintenance.

- **Cleaning:** Wipe the display and housing with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the unit.
- **Connection Check:** Periodically inspect the wiring connections to ensure they remain secure and free from corrosion.

- **Waterproof Integrity:** While waterproof, avoid prolonged submersion or high-pressure water jets directly on the unit to maintain its integrity.

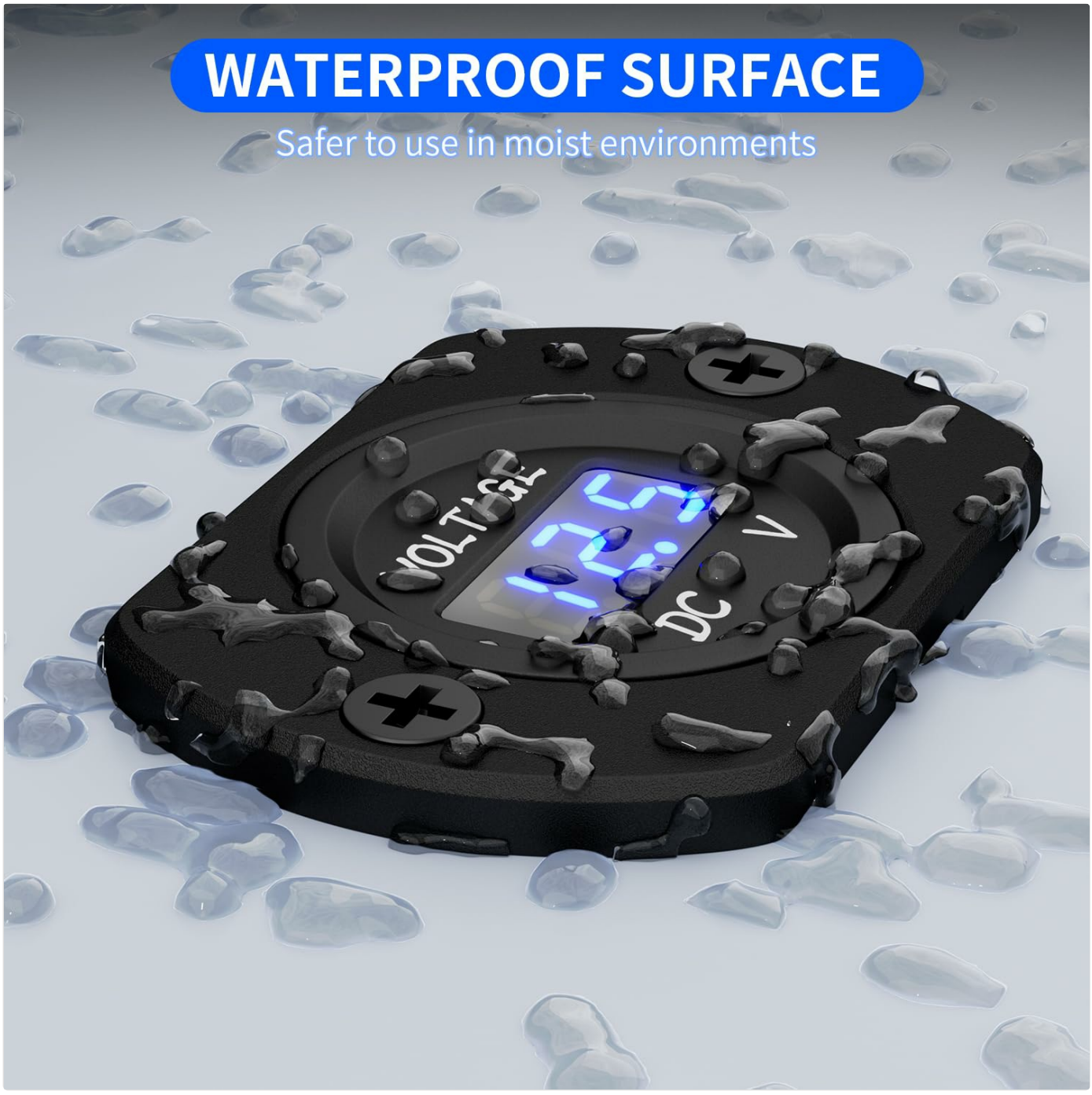

Image: The DAIERTEK Battery Voltage Meter with water droplets on its surface, illustrating its waterproof design suitable for moist environments.

8. Troubleshooting

Problem	Possible Cause	Solution

Display does not light up.	No power supply, incorrect wiring, or voltage outside operating range.	◦ Check if the red wire is connected to positive (+) and black wire to negative (-). ◦ Ensure the power source is active and providing voltage. ◦ Verify the voltage is within the 8-48V DC operating range. ◦ Check for any blown fuses in the circuit.
Inaccurate voltage reading.	Poor connection, faulty wiring, or external interference.	◦ Ensure all connections are tight and free from corrosion. ◦ Test the voltage of the power source with another known accurate voltmeter to compare readings. ◦ Relocate the voltmeter if it's near strong electromagnetic interference.
Display flickers or is intermittent.	Unstable power supply or loose connection.	◦ Check the stability of the power source. ◦ Inspect all wiring connections for looseness.

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your DAIERTEK Battery Voltage Meter, please refer to the purchase documentation or contact the seller directly. Keep your proof of purchase for any warranty claims. You can also visit the official DAIERTEK store for more information:DAIERTEK Store

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question