

[manuals.plus](#) /

› [DROK](#) /

› [DROK Digital Battery Capacity Tester User Manual](#)

## DROK 10-100V

# User Manual

## DROK DIGITAL BATTERY CAPACITY TESTER

Model: 10-100V

## PRODUCT OVERVIEW

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The DROK Digital Battery Capacity Tester is a versatile instrument designed to monitor the voltage and capacity percentage of various battery types. It supports a wide voltage range from 10V to 100V, making it suitable for 12V, 24V, 36V, and 48V battery systems commonly found in marine, RV, and other applications. This device provides real-time data on your battery's status, ensuring you are always informed about its charge level and health.

Key features include a clear LCD display, easy-to-use interface, and robust construction for reliable performance.



Figure 1: Front view of the DROK Digital Battery Capacity Tester, showing the LCD display with battery capacity percentage and voltage readings, along with control buttons.

## SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and safe operation. Please follow these steps carefully:

1. **Identify Components:** Unpack the tester and identify the main unit, the removable wire terminal, and the temperature probe (if included).

## Removable Wire Terminal

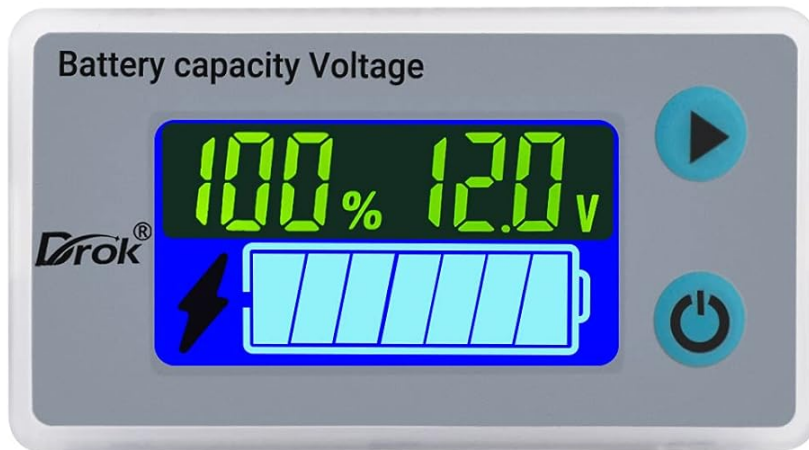
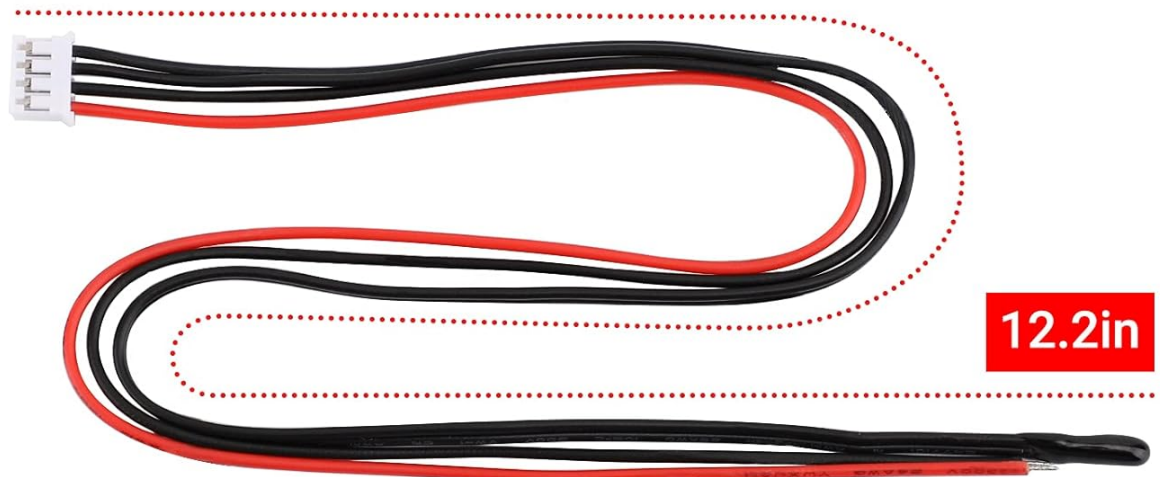


Figure 2: The removable wire terminal, approximately 12.2 inches long, shown alongside the main unit and a dollar coin for size reference.

2. **Power Connection:** The tester requires a direct connection to the battery being monitored. Ensure the battery voltage is within the 10V-100V operating range.
3. **Wiring Diagram:** Connect the wires according to the diagram provided on the back of the unit or as shown below. The red wire connects to the positive (+) terminal of the battery, and the black wire connects to the negative (-) terminal.



Figure 3: Detailed wiring diagram located on the back of the DROK battery monitor, illustrating connections for B+ (Red), B- (Black), and the temperature probe.

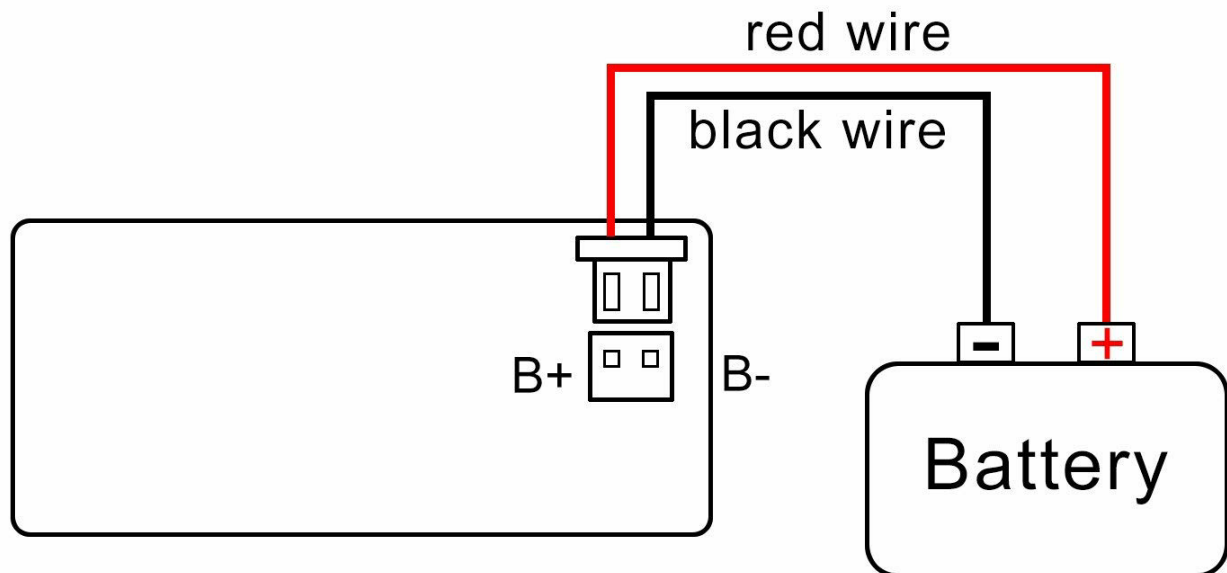


Figure 4: Simplified wiring diagram for connecting the DROK battery tester to a battery, showing the red wire connected to the positive terminal and the black wire to the negative terminal.

4. **Secure Connections:** Ensure all connections are secure and properly insulated to prevent short circuits.
5. **Mounting:** The unit can be panel-mounted. Refer to the dimensions for proper cutout size.

## Size

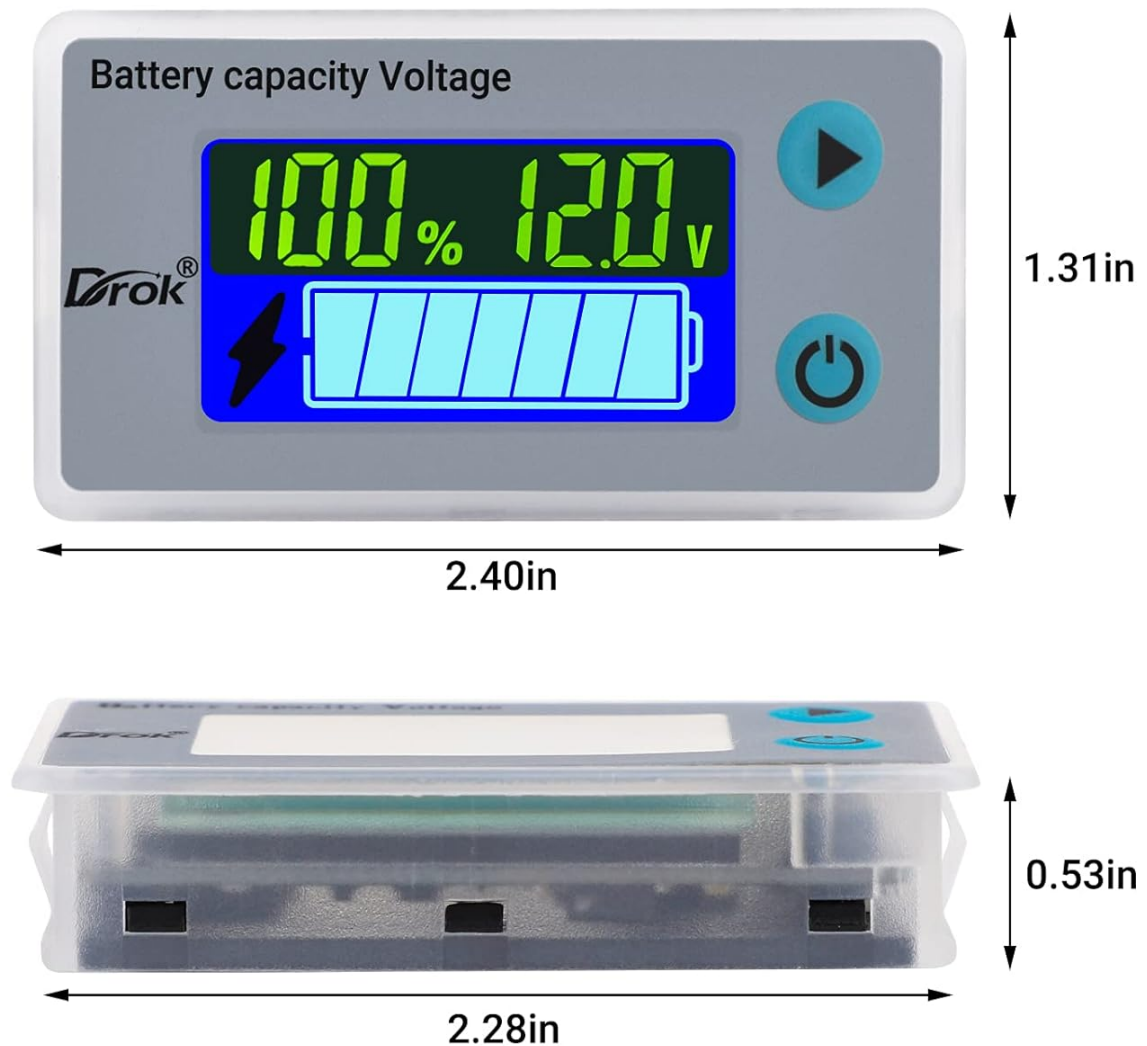


Figure 5: Physical dimensions of the DROK battery capacity tester, indicating a width of 2.40 inches, height of 1.31 inches, and depth of 0.53 inches.

## OPERATING INSTRUCTIONS

Once properly installed, the DROK Digital Battery Capacity Tester will automatically power on and display the current battery voltage and capacity percentage.

- **Display Readings:** The LCD screen shows the battery's current voltage (e.g., 12.0V) and its remaining capacity as a percentage (e.g., 100%). A graphical battery icon also indicates the charge level.
- **Button Functions:**
  - **Arrow Button (Right side, top):** This button is typically used to cycle through different display modes or settings, if available. Consult the specific product's detailed programming instructions for advanced configurations.
  - **Power Button (Right side, bottom):** This button is used to turn the display on or off.
- **Temperature Monitoring:** If the temperature probe is connected and enabled, the device may display battery temperature, which can influence capacity calculations.



- **Calibration and Configuration:** The device offers a high degree of configurability for various battery types (SLA, AGM, Gel). Refer to the manufacturer's detailed programming instructions for information on how to calibrate the meter and set parameters specific to your battery type and application. This ensures accurate readings.

## MAINTENANCE

To ensure the longevity and accurate performance of your DROK Battery Capacity Tester, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners or solvents, as they may damage the unit.
- **Environmental Conditions:** Avoid exposing the tester to extreme temperatures, high humidity, or direct sunlight for prolonged periods.
- **Connection Integrity:** Periodically check the wiring connections to ensure they remain secure and free from corrosion.
- **Storage:** If storing the unit for an extended period, disconnect it from the battery. Store in a cool, dry place.

## TROUBLESHOOTING

If you encounter issues with your DROK Battery Capacity Tester, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No display/Unit not powering on	Incorrect wiring; Battery voltage outside range; Loose connection; Faulty unit.	Verify wiring according to the diagram. Check battery voltage. Ensure connections are secure. If problem persists, contact support.
Inaccurate readings	Incorrect battery type setting; Calibration needed; Faulty temperature probe.	Refer to programming instructions to set correct battery type and perform calibration. Check temperature probe connection.
Display flickering or unstable	Unstable power supply; Loose connections.	Ensure stable power from the battery. Check and secure all wiring connections.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact DROK customer support.

## SPECIFICATIONS

Attribute	Detail
Brand	DROK
Model Number	10-100V
Measurement Type	Battery Tester
Voltage Range	10V - 100V DC

Attribute	Detail
Power Source	Battery Powered
Display Type	LCD Digital
Color	Grey
Item Weight	141 g (0.31 Pounds)
Product Dimensions (L x W x H)	6.14 x 3.34 x 1.35 cm (2.40 x 1.31 x 0.53 inches)
Certification	CE
Country of Origin	USA

## WARRANTY AND SUPPORT

DROK products are manufactured to high quality standards. For any technical assistance, troubleshooting, or warranty inquiries, please contact DROK customer support.

While specific warranty terms may vary by region and retailer, general support for product functionality and usage is available from the manufacturer.

For information regarding extended warranty or fire protection plans, please refer to your purchase documentation or the retailer's website where the product was acquired.