

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Proster](#) /

› [Proster VC837 6000 Counts Digital Multimeter Instruction Manual](#)

Proster VC837 6000 Counts

Proster VC837 6000 Counts Digital Multimeter Instruction Manual

This manual provides detailed instructions for the safe and effective operation of your Proster VC837 6000 Counts Digital Multimeter and Magnetic Hanger Strap.

INTRODUCTION

The Proster VC837 is a true-RMS digital multimeter designed for accurate measurement of AC/DC voltage, AC/DC current, resistance, capacitance, frequency, temperature, duty cycle, diode, and continuity. It features a large backlit LCD display, non-contact voltage (NCV) detection, and a magnetic hanger strap for convenient use.

SAFETY INFORMATION

WARNING: To avoid electric shock or personal injury, read all safety information before using this product. Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

- This device is CE rated for safety, 600V CAT IV and 1000V CAT III.
- Always ensure the test leads are correctly connected and the function switch is set to the appropriate range before making any measurements.
- Do not apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground.
- Inspect test leads for damaged insulation or exposed metal. Replace if damaged.
- Do not operate the meter if it appears damaged or if the case is open.
- Exercise extreme caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Always disconnect the circuit power and discharge all high-voltage capacitors before testing resistance, continuity, diodes, or capacitance.
- The meter features double fuse protection and overload protection on all ranges.

PACKAGE CONTENTS

- Proster VC837 Digital Multimeter
- Test Leads (Red and Black)

- K-Type Thermocouple Temperature Probe
- Multimeter Magnetic Hanger Strap
- Portable Carrying Bag
- User Manual (this document)



Image: The Proster VC837 Digital Multimeter shown with its complete set of accessories, including test leads, a temperature probe, a magnetic hanger strap, and a portable carrying bag.

PRODUCT OVERVIEW

Familiarize yourself with the components of your Proster VC837 Multimeter.



Image: Front view of the Proster VC837 Digital Multimeter, highlighting the LCD display, rotary function switch, control buttons, and input terminals. Test leads and a temperature probe are also visible.

1. **LCD Display:** Large backlit display for reading measurements.

2. **Function Buttons:**

- **SELECT/ID:** Toggles between functions on a single rotary switch position (e.g., AC/DC voltage, diode/continuity).
- **RANGE/REL:** Manual range selection or relative measurement.
- **HOLD/* :** Data hold function or backlight activation.

3. **Rotary Switch:** Selects the desired measurement function.

4. **Input Jacks:**

- **10A:** Input for high current measurements (up to 10A).
- **COM:** Common (negative) input for all measurements.
- **VΩmA:** Input for voltage, resistance, capacitance, frequency, temperature, diode, continuity, and low current measurements.

5. **Protective Case & Stand:** Soft non-slip orange rubber sleeve for protection; built-in stand for hands-free

viewing.

6. **Test Probes Slot:** Convenient storage for test leads.

SETUP

1. Battery Installation

The multimeter requires batteries for operation. To install or replace batteries:

1. Ensure the multimeter is turned OFF.
2. Locate the battery compartment cover on the back of the unit.
3. Unscrew the retaining screw(s) and remove the cover.
4. Insert new batteries, observing correct polarity (+ and -).
5. Replace the cover and secure with the screw(s).

2. Connecting Test Leads

Always connect the black test lead to the **COM** jack. Connect the red test lead to the appropriate input jack based on the measurement type:

- For voltage, resistance, capacitance, frequency, temperature, diode, and continuity measurements, connect the red lead to the **VΩmA** jack.
- For current measurements up to 600mA, connect the red lead to the **VΩmA** jack.
- For high current measurements (up to 10A), connect the red lead to the **10A** jack.

OPERATING INSTRUCTIONS

General Operation

1. Turn the rotary switch to the desired measurement function.
2. If the function has multiple modes (e.g., AC/DC voltage), press the **SELECT/ID** button to toggle between them.
3. Connect the test leads to the circuit or component under test.
4. Read the measurement on the LCD display.
5. To turn off the multimeter, rotate the switch to the **OFF** position. The multimeter also features an Auto Power Off (APO) function to conserve battery life.

Specific Measurement Functions

1. Voltage Measurement (AC/DC)

- Set the rotary switch to **V~** (AC Voltage) or **V=** (DC Voltage).
- Connect the red test lead to the **VΩmA** jack and the black lead to the **COM** jack.
- Connect the test leads in parallel across the component or circuit to be measured.



Image: The Proster VC837 Multimeter displaying an AC voltage reading while test leads are inserted into a wall outlet, demonstrating voltage measurement.

2. Resistance Measurement (Ω)

- Set the rotary switch to Ω .
- Connect the red test lead to the **VΩmA** jack and the black lead to the **COM** jack.
- Ensure the circuit is de-energized before measuring resistance. Connect the test leads across the component.



Image: The Proster VC837 Multimeter displaying a resistance value while connected to a circuit board using alligator clip test leads, illustrating resistance measurement.

3. Continuity Test ()))

- Set the rotary switch to))). Press **SELECT/ID** if necessary to select continuity mode.
- Connect the red test lead to the **VΩmA** jack and the black lead to the **COM** jack.
- Touch the test leads to the two points of the circuit to be tested. A continuous beep indicates a complete circuit (low resistance).



Image: The Proster VC837 Multimeter in continuity mode, with the display showing a low resistance reading and the test leads touching, indicating a continuous circuit.

4. Temperature Measurement (°C/°F)

- Set the rotary switch to $^{\circ}\text{C}/^{\circ}\text{F}$.
- Connect the K-type thermocouple to the **VΩmA** and **COM** jacks, observing polarity.
- Place the thermocouple tip on or in the object whose temperature is to be measured.
- Press **SELECT/ID** to switch between Celsius and Fahrenheit.



Surrounding Temperature



Tested Liquid Temperature

Image: The Proster VC837 Multimeter displaying a temperature reading, with the K-type thermocouple measuring the surrounding air temperature.



Image: The Proster VC837 Multimeter displaying a temperature reading, with the K-type thermocouple immersed in a glass of water to measure liquid temperature.

5. Non-Contact Voltage (NCV) Detection

- Set the rotary switch to **NCV**.
- Move the top end of the multimeter near a live conductor. The meter will beep and the NCV indicator will light up if AC voltage is detected.

6. Other Functions (Current, Capacitance, Frequency, Diode, Duty Cycle)

Refer to the markings on the rotary switch and use the **SELECT/ID** button to access these functions. Always ensure correct lead connection and circuit conditions for accurate and safe measurements.

Using the Magnetic Hanger Strap

The included magnetic hanger strap allows for hands-free operation of your multimeter, attaching it to metal surfaces.

1. Locate the loop attachment point on the back of your multimeter (if available) or use the existing stand slot.
2. Attach the strap's loop to this point.

3. The strong magnet on the strap can then be affixed to any ferrous metal surface, such as electrical panels or metal beams, holding the multimeter securely.



Image: A multimeter, similar to the Proster VC837, shown hanging from an electrical panel using the magnetic hanger strap, demonstrating hands-free operation.

MAINTENANCE

Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the input terminals free of dirt and moisture.

Battery Replacement

When the battery indicator appears on the LCD, replace the batteries immediately to ensure accurate readings. Follow the battery installation steps in the "Setup" section.

Fuse Replacement

If the current measurement function fails, the fuse may need replacement. Refer to the specifications for the correct fuse type and rating. Fuse replacement should only be performed by qualified personnel.

TROUBLESHOOTING

- **No display or faint display:** Check battery charge. Replace batteries if low.
- **Incorrect readings:**
 - Ensure test leads are correctly connected to the appropriate input jacks.
 - Verify the rotary switch is set to the correct function and range.
 - Check for damaged test leads.
 - Ensure the circuit is de-energized for resistance, continuity, and diode tests.
- **Current measurement not working:** Check the fuse.
- **Multimeter turns off unexpectedly:** Auto Power Off (APO) function is active. This is normal. If it turns off too quickly, check battery charge.

SPECIFICATIONS

Feature	Detail
Display	6000 Counts, Backlit LCD
Measurement Type	True-RMS
Safety Rating	CE Rated, 600V CAT IV, 1000V CAT III
Overload Protection	All ranges, Double Fuse
Functions	AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency, Temperature, Duty Cycle, Diode, Continuity, NCV
Special Features	Data Hold, Auto Power Off, Backlight, Built-in Stand, Test Probes Slot
Power Source	Battery Powered
Magnetic Hanger Strap	14-inch, Universal loop attachment
Carrying Bag Size	20*14*5cm (approx. 7.9 x 5.5 x 2 inches)

SUPPORT AND WARRANTY

For technical support or warranty inquiries, please contact Proster customer service through the retailer where the product was purchased or visit the official Proster website.

Please retain your proof of purchase for warranty claims.

Proster VC837 6000 Counts Digital Multimeter User Manual. All rights reserved.

Related Documents - VC837 6000 Counts

 <p>Proster Multi-purpose Communication Network Wire Tracker Proster Wire Tracker</p> <p>User Manual English</p>	<p>Proster Wire Tracker User Manual</p> <p>User manual for the Proster Multi-purpose Communication Network Wire Tracker, detailing its functions, specifications, and usage for tracking and verifying network and electric power cables.</p>
<p>Proster Wireless Presenter with Laser Pointer User Guide</p> <p>Introduction Thank you for purchasing proster wireless presenter with laser pointer. Plug and Play No Need to Install Driver Software, Long range up to 100m, Detect Distance up to 10 Meters without Signal Disturbance and NO Detection Distance Limit.</p> <p>Package Content: 1 x Wireless presenter with laser pointer (Battery M72 included) 1 x USB Wireless Receiver (Under the Battery Cover) 1 x User Guide</p> <p>Product Specifications:</p>  <p>Dimensions: 100 x 30 x 15 mm Presentation Range: 100m Laser Pointer: 5mW Battery Capacity: 720mAh Battery Type: Li-ion Response Time: 0.1s Accuracy: ±1% Operating Temperature: 0°C to 40°C Storage Temperature: -20°C to 60°C Humidity: 10% to 90% (non-condensing)</p>	<p>Proster Wireless Presenter with Laser Pointer User Guide</p> <p>User guide for the Proster Wireless Presenter with Laser Pointer, including setup, specifications, safety measures, and troubleshooting.</p>
<p>Introduction Congratulations on your purchase of this Proster Pinless Moisture Meter. This instrument is a non-destructive moisture meter for use in woodworking, water damage restoration, building construction and home renovation.</p> <p>1. Checking for moisture on or below the surface of carpets and subfloors. 2. Assessing the moisture content of wood, drywall, masonry or concrete before painting, wallpapering, sealing or staining. 3. Locating water leaks above ceilings, below floors or behind walls.</p> <p>4. Selecting dry lumber.</p> <p>The Proster Pinless Moisture Meter can detect moisture up to 3/4 in. (19mm) below the surface of the following materials: wood, masonry, drywall and subfloor. It uses the principle of capacitance to measure moisture content. The meter measures by gauging its effect on the capacitance of the probe. The probe is connected to the meter via a cable. The probe must be dry when it is powered on.</p> <p>Two buttons located in front of the instrument provide a convenient way to switch among the four materials. The reading is displayed on a large LCD screen. The LCD is a bank of colored LEDs that roughly mirrors the digital reading above it in bar graph format, with green indicating dry material, yellow indicating a low moisture level, orange indicating an intermediate moisture level, and red indicating a high moisture level. An audible out-of-range alarm sounds when the probe is inserted into a material found to have a moisture content above 16%, or when drywall or</p>	<p>Proster Pinless Moisture Meter User Manual and Specifications</p> <p>User guide and specifications for the Proster Pinless Moisture Meter (PST199-PST), detailing its features, operation, measurement tips, and technical data for woodworking, home renovation, and water damage restoration.</p>