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› Smart Digital Multimeter Tester, Rechargeable Auto Ranging Multi Tester, 6000 Counts TRMS Voltage Tester - AC/DC Voltage Current, Resistance, NCV, Capacitance, Continuity, Frequency, Duty Cycle, Diode

POROMETISTO MT02

POROMETISTO Smart Digital Multimeter Tester User Manual

Model: MT02

INTRODUCTION

The POROMETISTO MT02 Smart Digital Multimeter Tester is a versatile and reliable tool designed for accurate electrical measurements. Featuring 6000 counts TRMS, it automatically identifies AC/DC voltage, resistance, and continuity, making it suitable for both professional and DIY applications. Its robust design and intelligent features ensure precision and safety in various electrical environments.



Figure 1: POROMETISTO MT02 Smart Digital Multimeter Tester.

SAFETY INFORMATION

Always observe basic safety precautions when using this multimeter to prevent electric shock or damage to the device. Read all instructions carefully before operation.

- Do not apply voltage or current that exceeds the specified maximum limits.
- Ensure test leads are properly connected and in good condition before each use.
- Avoid using the multimeter in wet environments or with wet hands.
- Always disconnect power to the circuit before measuring resistance, continuity, or capacitance.
- Use caution when working with live circuits. Non-contact voltage (NCV) detection is a safety feature, but always verify with direct measurement if possible.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.

WHAT'S IN THE BOX

The POROMETISTO MT02 Smart Digital Multimeter Tester package includes the following items:

- 1x POROMETISTO MT02 Digital Multimeter
- 1x User Manual
- 1x Storage Pouch
- 1x Charging Cable
- 2x Test Leads (Red and Black)
- AAA Batteries (included)

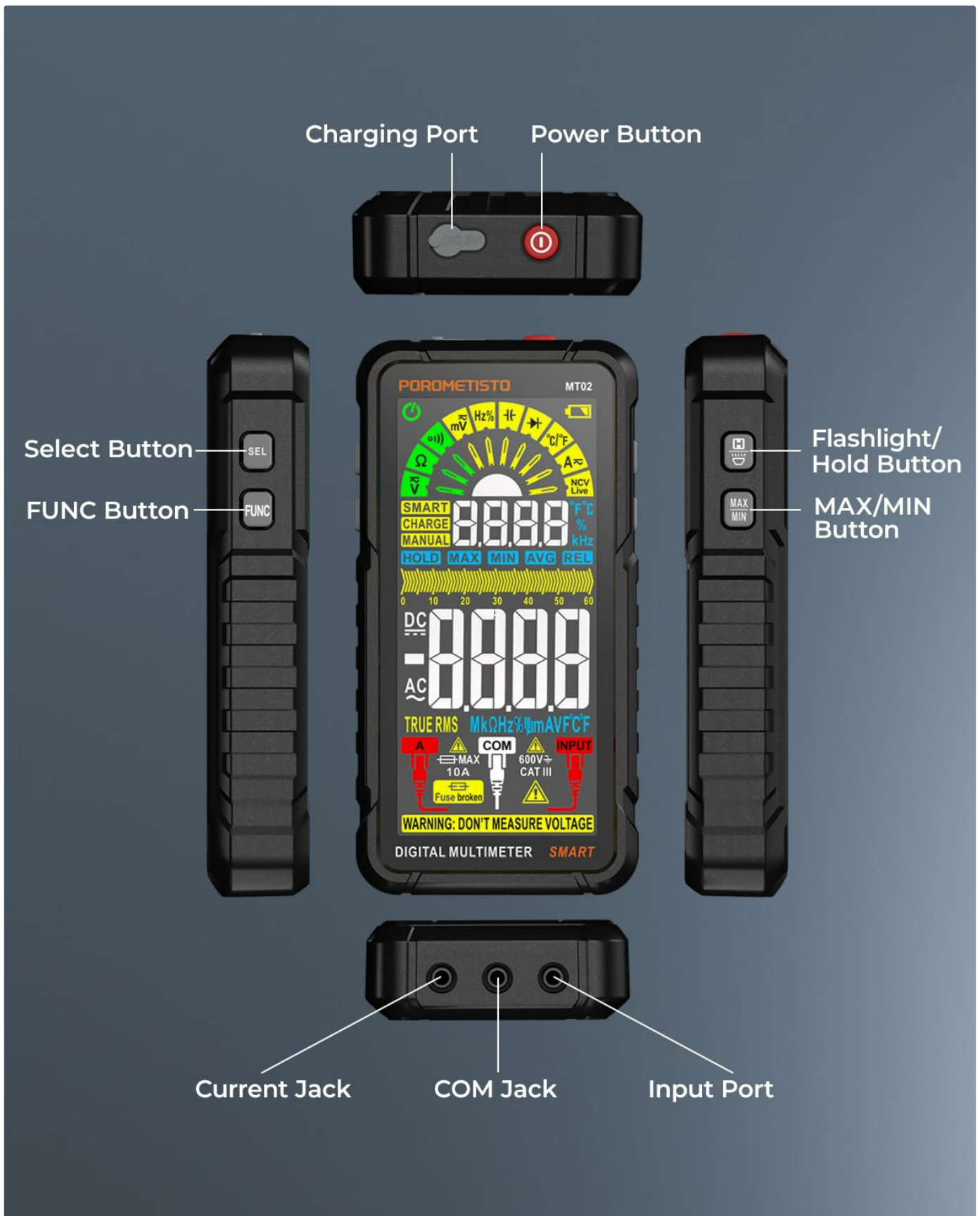


Figure 2: Package Contents of the MT02 Multimeter.

SETUP

1. Charging the Multimeter

The MT02 multimeter is equipped with a rechargeable Li-ion battery. Before initial use, or when the low battery indicator appears, charge the device using the provided charging cable.

1. Connect the small end of the charging cable to the charging port on the top of the multimeter.
2. Connect the USB end of the charging cable to a standard USB power adapter (not included) or a computer USB port.
3. The display will show a charging indicator. A full charge provides approximately 8 hours of endurance.



Figure 3: Charging the Multimeter.

2. Connecting Test Leads

Proper connection of test leads is essential for accurate and safe measurements.

1. Insert the black test lead into the "COM" (common) jack.
2. Insert the red test lead into the "INPUT" jack for most voltage, resistance, continuity, capacitance, frequency, and diode measurements. For current measurements (up to 10A), use the dedicated "10A" jack.

3. Powering On/Off

Press the red power button located on the top of the multimeter to turn the device on or off.

OPERATING MODES AND MEASUREMENTS

The MT02 offers both Smart (Auto) and Manual modes for various electrical measurements.

1. Smart Mode (Auto-Ranging)

In Smart Mode, the multimeter automatically identifies and measures AC/DC voltage, resistance, and continuity. This simplifies operation by eliminating the need for manual range selection.

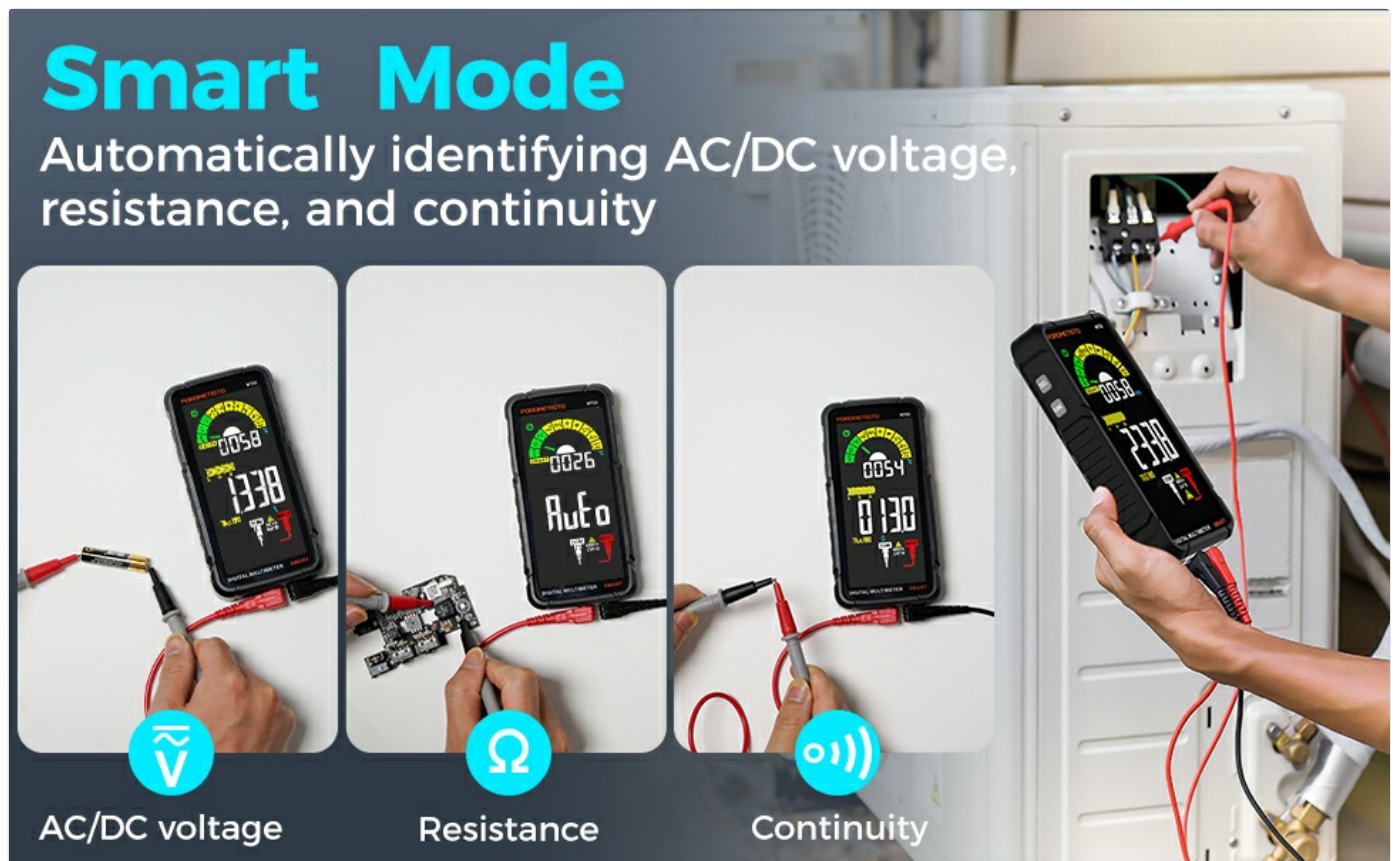


Figure 4: Smart Mode Operation.

2. Manual Mode (Function Selection)

For specific measurements or to override Smart Mode, press the "FUNC" button to cycle through available functions such as Capacitance, Frequency, Duty Cycle, Diode, and Temperature. The display will indicate the selected function.

Smart & Manual Mode



Smart

Automatically tests voltage resistance and continuity

Professional

Switch to the corresponding functional gear as needed.

Figure 5: Smart & Manual Mode Selection.

3. Non-Contact Voltage (NCV) Testing

The NCV feature allows for quick and safe detection of AC voltage on live wires without direct contact. Hold the top of the multimeter near the wire or outlet. The device will provide audible and visual alerts (buzzer sound and changing bar graph) indicating the presence and strength of the electric field.

Non-contact Voltage (NCV)



Figure 6: Non-Contact Voltage (NCV) Detection.

4. Data Hold and MAX/MIN

Press the "HOLD" button to freeze the current reading on the display. Press it again to release. The "MAX/MIN" button allows you to view the maximum and minimum values recorded during a measurement session.

5. Flashlight

The built-in flashlight can be activated by pressing the flashlight button, providing illumination in dimly lit work areas.

MAINTENANCE

1. Cleaning

Wipe the multimeter with a dry, soft cloth. Do not use abrasives or solvents. Ensure the device is powered off and disconnected from any circuits before cleaning.

2. Battery Care

To prolong battery life, charge the multimeter regularly, especially if it will not be used for an extended period. Avoid fully discharging the battery frequently.

3. Storage

Store the multimeter in its provided storage pouch in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it out of reach of children.

TROUBLESHOOTING

If you encounter issues with your POROMETISTO MT02 multimeter, refer to the following common troubleshooting steps:

- **No Power:** Ensure the battery is charged. If the device does not turn on after charging, contact customer support.
- **"OL" (Overload) Display:** This indicates that the measured value exceeds the multimeter's range for the selected function. Switch to a higher range if available, or ensure the measurement is within the device's specifications.
- **Inaccurate Readings:** Check test lead connections. Ensure the correct function is selected for the measurement. Verify the battery level.
- **No NCV Detection:** Ensure the NCV sensor area is clear and positioned correctly near the AC voltage source.

For more detailed troubleshooting or persistent issues, consult the full user manual or contact POROMETISTO customer support.

SPECIFICATIONS

Feature	Detail
Model Number	MT02
Display Counts	6000 Counts TRMS
Measurement Functions	AC/DC Voltage, Current, Resistance, Capacitance, Frequency, Duty Cycle, Diode, Temperature, Continuity, NCV
Auto-Ranging	Yes (Smart Mode for AC/DC Voltage, Resistance, Continuity)
Power Source	Rechargeable Lithium Metal Battery (included)
Product Dimensions	3 x 1.1 x 5.7 inches
Item Weight	1.08 Pounds
Manufacturer	POROMETISTO
Color	Black
Safety Rating	CAT III 600V

WARRANTY AND SUPPORT

POROMETISTO provides a **3-year warranty** for the MT02 Smart Digital Multimeter Tester. Additionally, lifetime technical support is available 24/7 to assist you with any issues or questions regarding your product.

For further assistance, please visit the official POROMETISTO store on Amazon or contact their customer service directly. Visit the [POROMETISTO Store](#)