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› WnewTools MT007 Series Digital Multimeter User Manual

WnewTools MT007

WnewTools MT007 Series Digital Multimeter User Manual

True RMS Digital Multimeter + Voltage Test Pen + Phase Sequences Meter

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of your WnewTools MT007 series digital multimeter. The MT007 series combines a True RMS digital multimeter, a voltage test pen, and a phase sequence meter into a single, portable device. Please read this manual thoroughly before use and retain it for future reference.

PRODUCT OVERVIEW

Key Features

- True RMS measurement capability.
- Integrated Voltage Test Pen for non-contact voltage detection.
- Phase Sequence Meter for three-phase system analysis.
- Compact pen-type design for portability.
- Color screen display (MT007 Pro/Pro-EN models).
- Voice broadcast function (MT007 Pro-EN model, English only).
- Automatic shutdown feature to conserve battery life.
- Low voltage prompt.
- Backlight for improved visibility in low light conditions.
- Data hold function.
- Flashlight for illuminating work areas.
- Fire distinguish function.

What's in the Box

- 1 x WnewTools MT007 Digital Multimeter (Battery not included)
- 1 x Test Lead
- 1 x User Manual



Image: The MT007 multimeter, test lead, and user manual neatly packaged in its retail box.

SETUP

1. Battery Installation:

The MT007 series multimeter requires one 1.5V AAA battery (not included). To install the battery:

- Locate the battery compartment cover on the back of the device.
- Slide or unclip the cover to open the compartment.
- Insert one 1.5V AAA battery, ensuring correct polarity (+ and -).
- Close the battery compartment cover securely.



Image: The MT007 multimeter with its battery compartment open, showing where to insert the AAA battery.

2. Power On/Off:

Press and hold the power button to turn the device on or off. The device will automatically shut down after 5 minutes of inactivity to conserve battery life.

3. Voice Broadcast (MT007 Pro-EN only):

The MT007 Pro-EN model features voice broadcast in English by default. To disable voice broadcast, press and hold the N/LP button while turning on the device.

OPERATING INSTRUCTIONS

The MT007 series multimeter offers various measurement functions. Use the "Select" button to cycle through different modes.

General Operation

- **Mode Selection:** Press the **Select** button to switch between measurement modes (e.g., DC Voltage, AC Voltage, Resistance, Capacitance, Frequency, Diode, Buzzer, etc.).
- **Data Hold:** Press the **HOLD** button to freeze the current reading on the display. Press again to release.

- **N/LP Button:** Used for specific functions like disabling voice broadcast (MT007 Pro-EN) or for Live Wire/Phase detection.
- **Automatic Shutdown:** The device will power off automatically after approximately 5 minutes of no operation.

Measurement Functions

- **DC Voltage Measurement:**

Connect the test lead to the circuit. The device can measure DC voltage from 0.8V to 1000V.

- **AC Voltage Measurement:**

Connect the test lead to the AC circuit. The device can measure AC voltage from 0.8V to 700V.

- **Resistance Measurement:**

Connect the test lead across the component. Measures resistance from 0.1 Ω to 60M Ω . Note that resistance measurement may take a few seconds to settle, especially for higher values or continuity checks.

- **Capacitance Measurement:**

Connect the test lead across the capacitor. Measures capacitance from 10nF to 60mF. Measurement time can vary.

- **Frequency Measurement:**

Measures frequency from 1Hz to 10MHz.

- **Diode Test:**

Tests diodes by applying a forward voltage of approximately 3.0V.

- **Continuity (Buzzer) Test:**

Checks for continuity with a buzzer indication for resistance between 0.1 Ω and 50 Ω .

- **Fire Distinguish:**

Identifies live wire (fire wire) in an AC circuit.

- **Phase Sequences:**

Determines the phase sequence in three-phase power systems.

- **Flashlight:**

Activate the built-in flashlight to illuminate dark work areas.



Image: A close-up view of the MT007 digital multimeter, showing its display and control buttons.

Automatic shutdown

Shut down after 5 minutes without operation



Image: The MT007 multimeter in a setting that illustrates its automatic shutdown feature after a period of inactivity.

SPECIFICATIONS

Parameter	Value
DC Voltage	0.8-1000V
AC Voltage	0.8-700V
Resistance	0.1-60MΩ
Capacitance	10nF-60mF
Frequency	1Hz-10MHz
Temperature	-20°C-50°C / 0-122°F

Parameter	Value
Diode Test Voltage	3.0V
Buzzer Continuity	0.1-50Ω
Power Supply	1.5V AAA*1
Dimensions	171 x 21 x 21mm
Net Weight	80g
Item Model Number	ATOOL1806010-MT007

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.
- **Battery Replacement:** Replace the battery when the low voltage prompt appears on the display to ensure accurate readings.
- **Test Lead Care:** Inspect the test lead for any damage before each use. Replace if insulation is cracked or wires are exposed.

TROUBLESHOOTING

- **Device does not turn on:**
 - Check if the battery is installed correctly with the right polarity.
 - Replace the battery with a new 1.5V AAA battery.
 - Ensure the power button is pressed and held sufficiently.
- **Inaccurate readings:**
 - Ensure the correct measurement mode is selected.
 - Check the test lead connections for proper contact.
 - Verify battery level; a low battery can affect accuracy.
 - Ensure the component being measured is within the device's specified range.
- **Voice broadcast not working (MT007 Pro-EN):**
 - Ensure the voice broadcast feature has not been disabled (by holding N/LP button during power-on).
 - Check the volume settings if applicable (though not explicitly mentioned, a common troubleshooting step).
- **Slow resistance/capacitance readings:**

This is normal for some measurements, especially for higher resistance or capacitance values, as the device needs time to settle the reading.

WARRANTY AND SUPPORT

For warranty information or technical support, please contact your retailer or the manufacturer, WnewTools. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

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Question

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

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