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› TESMEN TMM-569A Digital Multimeter User Manual

TESMEN TMM-569A

TESMEN TMM-569A Digital Multimeter User Manual

Model: TMM-569A | Brand: TESMEN

1. INTRODUCTION

The TESMEN TMM-569A is a smart digital multimeter designed for accurate and versatile electrical measurements. It features automatic range selection and TRUE RMS 4000 counts, making it suitable for a wide array of applications. This manual provides essential information for safe and effective operation of your multimeter.

2. PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and undamaged:

- TMM-569A Smart Digital Multimeter x 1
- Test Leads x 2 (Red and Black)
- Thermocouple x 1
- Storage Bag x 1
- AAA Batteries x 3
- User Manual x 1



Image 1: Contents of the TESMEN TMM-569A Digital Multimeter package, including the multimeter, test leads, thermocouple, storage bag, and batteries.

3. SAFETY INFORMATION

This multimeter is designed with user safety as a priority. Adhere to all safety precautions to prevent electric shock or damage to the device. The TMM-569A meets CAT III 1000 V and CAT IV 600 V safety standards.

- Always inspect the multimeter, test leads, and accessories for any damage before use. Do not use if damaged.
- Ensure the rotary switch is set to the correct function and range before connecting test leads to the circuit.
- Do not exceed the maximum input values for any range.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves, when working with electrical circuits.
- Avoid touching exposed wiring or circuit components during measurements.
- The device features dual fuse protection and a robust rubber sleeve for enhanced safety.



Image 2: Illustration of the multimeter's internal dual fuse protection and full-coverage insulated silicone protective case, highlighting safety features.

4. PRODUCT OVERVIEW

The TMM-569A Digital Multimeter is equipped with a clear backlit LCD screen and an intuitive rotary switch for function selection.

4.1. Display and Controls

- **LCD Display:** Backlit screen for clear visibility in various lighting conditions. Displays 4000 counts and TRUE RMS readings.
- **Rotary Switch:** Used to select measurement functions such as Voltage (AC/DC), Current (AC/DC), Resistance, Continuity, Diode, Capacitance, Temperature, NCV, Live Wire, and Phase.
- **FUNC Button:** Toggles between different measurement types within a single rotary switch position (e.g., AC/DC voltage, Resistance/Continuity/Diode/Capacitance).
- **HOLD Button:** Freezes the current reading on the display for easy recording.
- **REL Button:** Activates the relative measurement function, displaying the difference between a stored value and the current measurement.
- **Backlight/Flashlight Button:** Activates the display backlight and the integrated flashlight for use in dimly lit environments.



AC Voltage



DC Voltage



Capacitance



Temperature

Image 3: The multimeter in use, demonstrating the Non-Contact Voltage (NCV) function, along with the activated backlight and flashlight for visibility in dark areas.

5. SETUP

5.1. Battery Installation

1. Locate the battery compartment cover on the back of the multimeter.

2. Use a screwdriver to remove the screw securing the cover.
3. Insert three AAA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover and secure it with the screw.

5.2. Connecting Test Leads

1. Insert the black test lead into the "COM" (Common) input jack.
2. For most voltage, resistance, continuity, diode, capacitance, and temperature measurements, insert the red test lead into the "INPUT" jack (V Ω mA).
3. For current measurements (up to 400mA), use the "400mA" jack. For higher current measurements (up to 10A), use the "10A" jack. Always ensure the correct jack is used for the intended measurement.

6. OPERATING MODES

The TMM-569A offers a variety of measurement functions accessible via the rotary switch.

6.1. Voltage Measurement (AC/DC)

- Turn the rotary switch to the "V~" (AC Voltage) or "V-" (DC Voltage) position.
- Connect the test leads across the component or circuit to be measured.
- The display will show the voltage reading. Use the FUNC button to toggle between AC and DC if needed within a combined setting.

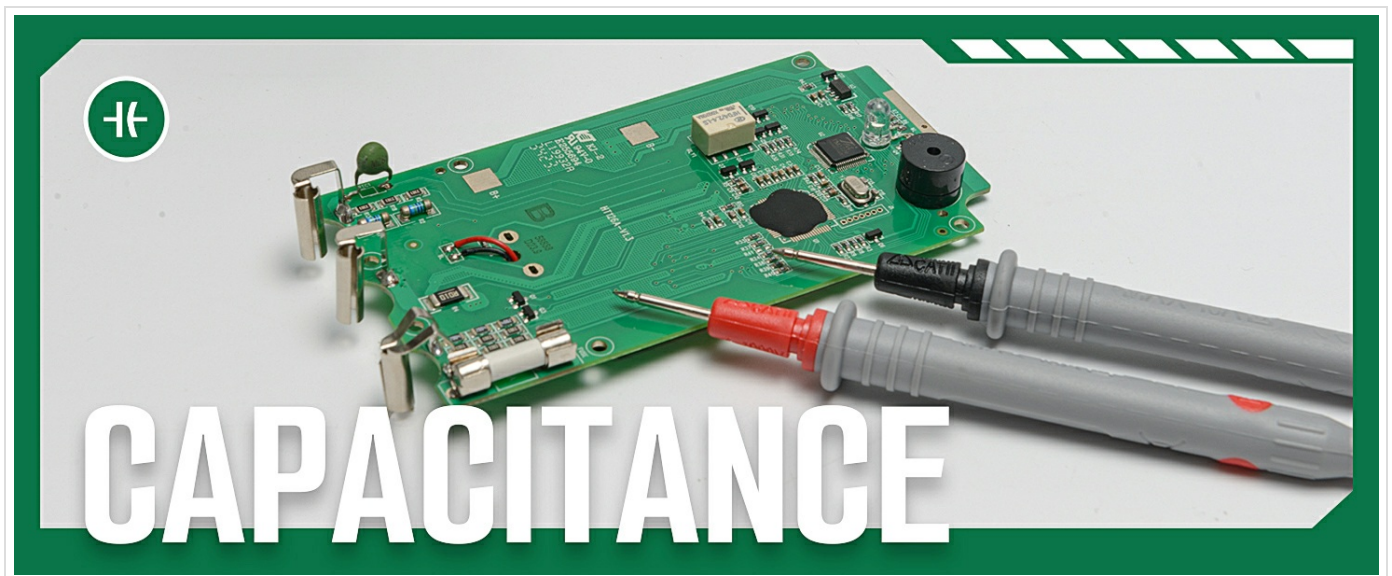


Image 4: Demonstrates measuring AC voltage from a wall outlet and DC voltage from a car battery using the multimeter.

6.2. Current Measurement (AC/DC)

- Turn the rotary switch to the "A~" (AC Current) or "A-" (DC Current) position.
- **Important:** Connect the multimeter in series with the circuit. Ensure the red test lead is in the appropriate current jack (400mA or 10A).
- The display will show the current reading.

6.3. Resistance, Continuity, Diode, Capacitance

- Turn the rotary switch to the " Ω " (Resistance), "Continuity", "Diode", or "Capacitance" position.
- Use the FUNC button to select the desired measurement mode if multiple are combined on one switch position.
- Connect the test leads across the component. For continuity, a beep indicates a continuous circuit.

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TMM-569A



NCV

Smart Digital Multimeter TRUE RMS 4000 Counts

Image 5: The multimeter performing capacitance measurement on a circuit board and temperature measurement using the included thermocouple in a glass of water.

6.4. Temperature Measurement

- Turn the rotary switch to the "°C/°F" (Temperature) position.
- Connect the thermocouple to the appropriate input jacks.
- Place the thermocouple probe at the point where temperature needs to be measured. The display will show the temperature in Celsius or Fahrenheit.

6.5. NCV (Non-Contact Voltage) & Live Wire Detection

- Turn the rotary switch to the "NCV" position.
- Bring the top of the multimeter near a live wire or electrical outlet. The device will indicate the presence of AC voltage with an audible beep and visual indicator.
- For Live Wire detection, select the "Live" function. Insert the red test lead into the live wire or socket. The display will indicate "Live" and provide an audible alert if a live wire is detected.

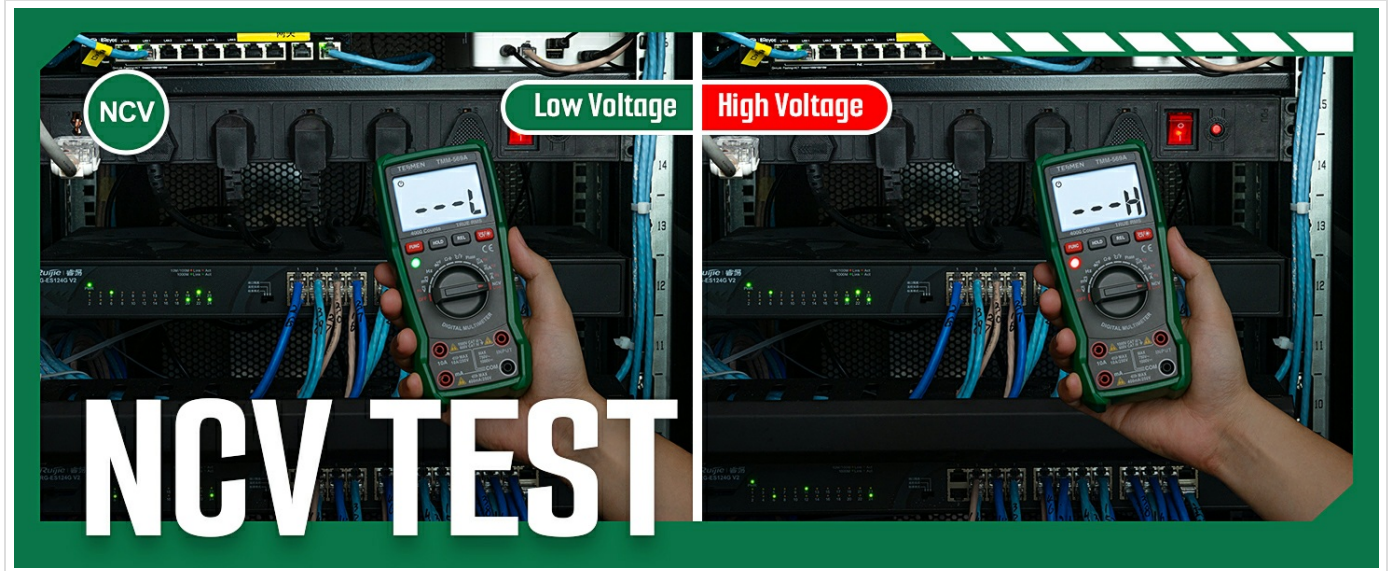


Image 6: The multimeter performing a Live Wire detection test on an electrical outlet, indicating the presence of live voltage.

6.6. Phase Detection

- Turn the rotary switch to the "Phase" position.
- Follow the on-screen instructions or manual guidance to perform phase sequence testing in multi-phase electrical systems.



Image 7: The multimeter's display showing the results of a phase sequence test, indicating phases L1, L2, and L3.

6.7. Special Functions (HOLD, REL, Backlight/Flashlight)

- **Data Hold (HOLD):** Press the HOLD button to freeze the current measurement on the display. Press again to release.
- **Relative Measurement (REL):** Press the REL button to store the current reading as a reference. Subsequent measurements will display the difference from this reference. Press again to exit.
- **Backlight & Flashlight:** Press the backlight/flashlight button to illuminate the display or activate the integrated

flashlight for working in low-light conditions.

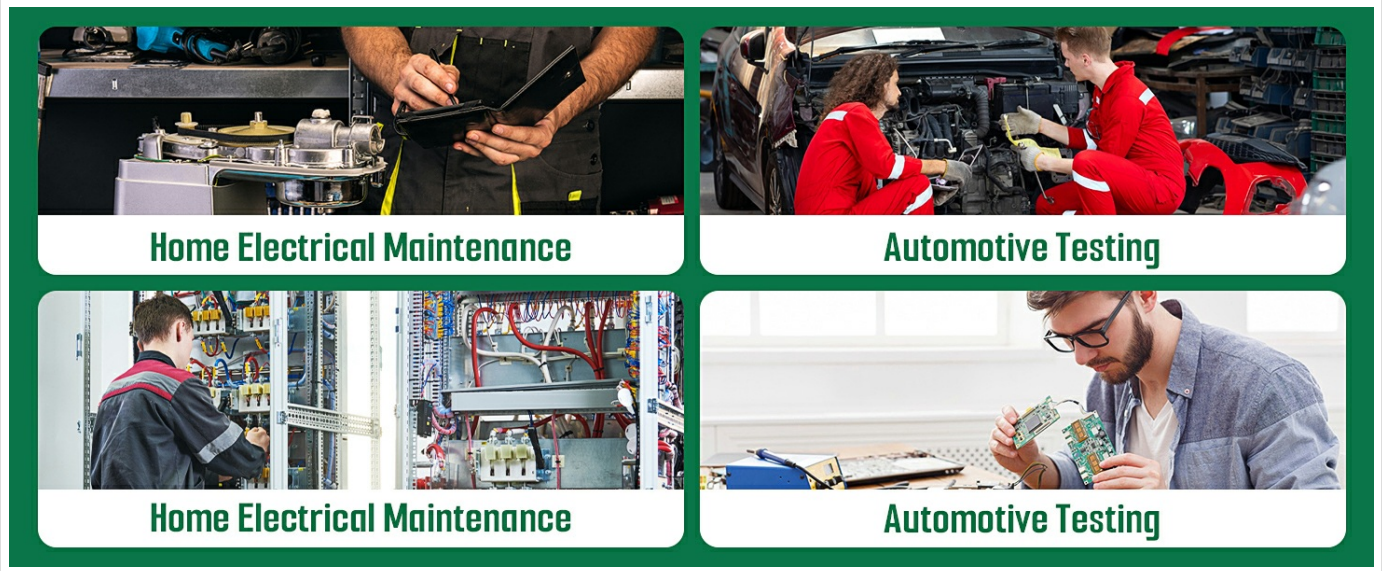


Image 8: A user utilizing the data hold function on the multimeter to record a measurement, highlighting its convenience.

7. MAINTENANCE

- **Cleaning:** Wipe the multimeter with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its provided storage bag in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate measurements.
- **Fuse Replacement:** If a fuse blows, replace it with a fuse of the same type and rating as specified in the specifications section. Refer to the safety information for proper access.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or faint display	Low or dead batteries	Replace the AAA batteries.
"OL" (Overload) displayed	Measurement range exceeded or open circuit	Select a higher range or check for an open circuit.
Incorrect readings	Incorrect function/range selected, poor test lead connection, or damaged leads	Verify settings, ensure secure connections, or replace test leads.
No continuity beep	Open circuit or component resistance too high	Check the circuit for breaks or measure resistance directly.

9. SPECIFICATIONS

Feature	Detail
Model	TMM-569A

Feature	Detail
Display Counts	4000 Counts
True RMS	Yes
Safety Rating	CAT III 1000 V, CAT IV 600 V
Power Source	3 AAA batteries (included)
Dimensions	20.9 x 13.6 x 6.9 cm
Item Weight	0.69 Kilograms
Upper Temperature Rating	150 Degrees Celsius
Auto-Off Function	Yes (after period of inactivity)
Data Hold	Yes
Relative Measurement (REL)	Yes
Backlight & Flashlight	Yes

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact TESMEN customer support. Contact details can typically be found on the product packaging or the official TESMEN website. Please retain your proof of purchase for warranty claims.

Manufacturer Contact: support@tesmen.com

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