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› ANENG Digital Multimeter Tester Measures AC/DC Voltage,DC Current Ohm Amp Meter,Professional Multimetro Auto Voltmeter with Resistance, Diodes,Buzzer Handhold Electrial Tools SZ06 Red (With 16-piece test set)

ANENG SZ06 Red (With 16-piece test set)

ANENG Digital Multimeter SZ06 Instruction Manual

Brand: ANENG

Model: SZ06 Red (With 16-piece test set)

1. INTRODUCTION AND OVERVIEW

The ANENG SZ06 Digital Multimeter is a versatile and precise tool designed for resolving electrical problems in both industrial and household settings. It offers accurate measurements for AC/DC voltage, DC current, resistance, diodes, and continuity (buzzer function). Its compact design and comprehensive features make it an invaluable tool for various electrical testing needs.



Figure 1.1: ANENG SZ06 Digital Multimeter with included accessories.

ANENG® Digital Multimeter with Ohm Volt Amp and Diode Test

The SZ06 Multimeter is designed to safely and accurately troubleshoot a variety of automotive and household electrical problems



Figure 1.2: Key measurement capabilities of the ANENG SZ06 Multimeter.



Figure 1.3: The multimeter's application in various electrical detection and maintenance tasks.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all components are present and in good condition. The standard package for the ANENG SZ06 Digital Multimeter includes:

- 1x ANENG SZ06 Digital Multimeter
- 2x 1.5V AAA Batteries (pre-installed)
- 1x Combination Test Lead Set (includes 4x connection sockets, 2x PVC cables, 2x copper needles, 2x U-shaped inserts, 2x meter pens, 4x alligator clips, 2x puncture needles)
- 1x Multimeter Test Lead
- 1x Instruction Manual



Figure 2.1: Visual representation of the ANENG SZ06 Multimeter and its complete accessories.

3. SETUP

3.1 Battery Installation

The ANENG SZ06 Multimeter requires 2 AAA batteries for operation. While batteries are typically pre-installed, follow these steps if replacement is needed:

1. Locate the battery compartment cover on the back of the multimeter.
2. Open the cover. (Note: Some models may require a small Phillips head screwdriver to open the battery compartment.)
3. Insert 2 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

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Video 3.1: Demonstrates battery installation and initial setup of the ANENG SZ06 Multimeter. (Relevant segment: 0:14 - 0:20)

3.2 Connecting Test Leads

Proper connection of test leads is crucial for accurate and safe measurements:

1. Insert the black test lead into the "COM" (common) jack.
2. Insert the red test lead into the "VΩmA" jack for voltage, resistance, and milliampere current measurements. For 10A DC current measurements, insert the red test lead into the "10A" jack.
3. Ensure the leads are fully inserted and secure.

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Video 3.2: Demonstrates the correct insertion of test leads into the multimeter ports. (Relevant segment: 0:21 - 0:25)

4. OPERATING INSTRUCTIONS

The ANENG SZ06 Multimeter features a rotary dial to select different measurement functions. Always ensure the correct function is selected before taking a measurement.

4.1 AC Voltage Measurement (V~)

To measure AC voltage, turn the rotary dial to the "V~" position. Insert the test leads into the circuit or outlet you wish to measure. The multimeter will display the AC voltage reading. Note that this meter is designed for AC/DC voltage measurement, but not AC current.

AC Voltage Test

Note: The Meter can not be used to test AC current.



Figure 4.1: Measuring AC voltage using the multimeter.



Figure 4.2: Visual guide for AC Voltage Measurement.

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Video 4.1: Demonstration of AC voltage measurement. (Relevant segment: 0:26 - 0:58)

4.2 DC Voltage Measurement (V=)

To measure DC voltage, turn the rotary dial to the "V=" position. Connect the red test lead to the positive terminal and the black test lead to the negative terminal of the DC source (e.g., battery). The multimeter will display the DC voltage reading.



Figure 4.3: Visual guide for DC Voltage Measurement.

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Video 4.2: Demonstration of DC voltage measurement. (Relevant segment: 0:59 - 1:11)

4.3 DC Current Measurement (mA/A)

To measure DC current, turn the rotary dial to the appropriate "mA" or "10A" position. The multimeter must be connected in series with the circuit. For milliampere measurements, use the "VΩmA" jack for the red lead. For higher current up to 10A, use the "10A" jack for the red lead.

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Video 4.3: Demonstration of mA DC current measurement. (Relevant segment: 1:12 - 1:24)

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Video 4.4: Demonstration of DC current measurement. (Relevant segment: 1:25 - 1:35)

4.4 Diode Test

To test diodes, turn the rotary dial to the diode symbol position. Connect the red test lead to the anode and the black test lead to the cathode of the diode. The multimeter will display the forward voltage drop. Reverse the leads to check for an open circuit, indicating a good diode.

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Video 4.5: Demonstration of diode detection. (Relevant segment: 1:36 - 1:48)

4.5 Buzzer (Continuity) Test

For continuity testing, turn the rotary dial to the buzzer symbol position. Touch the test leads to both ends of the wire or component. If there is continuity (unobstructed path), the multimeter will emit an audible beep. If no beep is heard, the circuit is open or has high resistance.



Figure 4.4: Performing a continuity test.

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Video 4.6: Demonstration of buzzer (continuity) detection. (Relevant segment: 1:49 - 2:01)

4.6 Resistance Measurement (Ω)

To measure resistance, turn the rotary dial to the " Ω " position. Ensure the circuit is de-energized before measuring resistance. Touch the test leads to both ends of the resistor or component. The multimeter will display the resistance value in Ohms (Ω), Kilo-Ohms (k Ω), or Mega-Ohms (M Ω).

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Video 4.7: Demonstration of resistance measurement. (Relevant segment: 2:02 - 2:18)

4.7 Additional Features

- **Backlit LCD Display:** The multimeter features a backlit LCD display for clear readings in various lighting conditions.



Figure 4.5: The backlit screen enhances readability.

- **Data Hold Function:** Press the "HOLD" button to freeze the current reading on the display, allowing you to record it conveniently.
- **Auto Power Off:** To conserve battery life, the multimeter automatically powers off after a period of inactivity.
- **Low Battery Indicator:** An indicator on the display will alert you when the battery power is low, prompting replacement.

5. SPECIFICATIONS

Feature	Detail
Package Dimensions	5.98 x 3.94 x 1.81 inches
Item Weight	8.78 ounces (0.25 Kilograms)
Batteries	2 AAA batteries required (included)
Brand	ANENG
Model	SZ06 Red (With 16-piece test set)
Color	Red
Power Source	Battery Powered
Manufacturer	ANENG
Country of Origin	China
Display Counts	1999 counts
Sampling Rate	2 times per second
Safety	Double ceramic fuse, overload protection

6. TROUBLESHOOTING

If you encounter issues with your ANENG SZ06 Digital Multimeter, consider the following common troubleshooting steps:

- **No Display/Faint Display:** Check the batteries. Ensure they are correctly installed and have sufficient charge. Replace if necessary.
- **Incorrect Readings:**
 - Verify that the rotary dial is set to the correct measurement function (e.g., AC V for AC voltage, DC V for DC voltage).
 - Ensure test leads are securely connected to the correct input jacks on the multimeter and to the circuit being tested.
 - Confirm the circuit is de-energized before measuring resistance or continuity.
- **No Continuity Beep:** Ensure the multimeter is set to the buzzer/continuity mode. Check the wire or component for breaks or high resistance.
- **Fuse Blown:** If the multimeter stops functioning after measuring current, the internal fuse may have blown due to overload. Refer to the specifications for fuse type and replace it carefully.

For persistent issues, please contact customer support.

7. MAINTENANCE

To ensure the longevity and accuracy of your ANENG SZ06 Digital Multimeter, follow these maintenance guidelines:

- **Cleaning:** Wipe the multimeter with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures. The included protective case helps guard against bumps, scratches, and splashes.

- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to prevent inaccurate readings or damage from battery leakage.
- **Fuse Replacement:** If a fuse blows, replace it only with a fuse of the specified type and rating to maintain safety and functionality.

8. WARRANTY AND SUPPORT

ANENG is committed to providing high-quality products and excellent customer service. Your ANENG SZ06 Digital Multimeter comes with professional after-sale service and technical support.

For any inquiries, technical assistance, or warranty claims, please refer to the contact information provided in your product packaging or visit the official ANENG website. We are dedicated to ensuring your satisfaction and resolving any issues you may encounter.

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