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ANENG SZ02 Orange

ANENG SZ02 9999 Counts Intelligent Digital Multimeter User Manual

Model: **SZ02 Orange** | Brand: **ANENG**

1. INTRODUCTION

The ANENG SZ02 is a versatile and intelligent digital multimeter designed for precise electrical measurements. It features a 9999-count display and True RMS capabilities, making it an essential tool for electricians, engineers, technicians, and DIY enthusiasts. This manual provides comprehensive instructions for safe and effective operation of your ANENG SZ02 multimeter.

Scenario Application

Automotive inspection and maintenance



Electric box maintenance



DIY learning for beginners



Experimental site debugging



Figure 1: ANENG SZ02 Multimeter in typical application scenarios, including automotive inspection, electric box maintenance, DIY learning, and experimental site debugging.

2. SAFETY INFORMATION

Always adhere to safety precautions when operating any electrical testing equipment to prevent personal injury or damage to the device. The ANENG SZ02 is designed with safety in mind, including built-in fuses to prevent short circuits and burnout.

- Ensure the multimeter is in the correct measurement mode before connecting test leads to a circuit.
- Do not exceed the maximum input values specified for each range.
- Use the Non-Contact Voltage (NCV) function for initial safety checks before direct contact.
- Inspect test leads for any damage before each use. Replace if insulation is compromised.
- Avoid using the multimeter in wet environments or during thunderstorms.
- Always disconnect power to the circuit before performing resistance, continuity, or diode tests.

Red Screen High Pressure Prompt

When measuring the voltage, the screen shows a red backlight flashing after measurement, indicating that you are under high voltage, pay attention to safety



Figure 2: The ANENG SZ02 features a red screen high pressure prompt, indicating high voltage for enhanced safety during measurements.

3. PRODUCT OVERVIEW

The ANENG SZ02 multimeter is compactly designed with a durable silicone sheath for effective protection against drops. It features a large, backlit LCD screen for clear readings in various lighting conditions.



Figure 3: Front view of the ANENG SZ02 Digital Multimeter, showing the display, function buttons, input jacks, and included test leads and temperature probe.

Key Components:

- **Display Screen:** Large 7.6cm (2.99-inch) high-definition LCD with backlight for clear readings.
- **Function Buttons:** For mode selection, data hold, and NCV activation.
- **Input Jacks:** Secure jacks for test leads, designed for tight engagement to prevent accidental disconnection.
- **Silicone Sheath:** Orange silicone material provides effective protection for the instrument.
- **Test Leads:** High-precision, anti-oxidation, stainless steel hands for reliable connections.
- **Battery Compartment:** Located at the rear, requires 2 x 1.5V AAA batteries.

Full of details



Battery

Adopt 2 1.5V AAA power supplies, easy to replace



Jack input

Tight engagement with multimeter jack, don't worry about falling off

9999 Counts

Intelligent anti-burn for electricians

Silicone sheath

Orange silicone material, effectively protecting the instrument



High quality Watch pen

High precision, anti - oxidation, stainless steel hands



Large screen

7.6cm/2.99inch high definition LCD screen



Figure 4: Detailed breakdown of the ANENG SZ02's features, highlighting the battery compartment, secure jack input, 9999-count display, high-quality test leads, protective silicone sheath, and large LCD screen.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the multimeter.
2. Use a screwdriver to open the battery compartment.
3. Insert two 1.5V AAA batteries, ensuring correct polarity (+ and -).
4. Replace the battery compartment cover and secure it with the screw.

4.2 Connecting Test Leads

1. Insert the black test lead into the "COM" (common) input jack.
2. Insert the red test lead into the "INPUT" jack for voltage, resistance, capacitance, diode, and frequency measurements.
3. For current measurements (A), insert the red test lead into the "10A/DCA/FUSE" or "mA/uA" jack as appropriate for the

expected current range.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the power button (usually marked with ) to turn the multimeter on or off. The device will automatically power off after a period of inactivity to conserve battery life.

5.2 Measurement Functions

The ANENG SZ02 offers a wide range of measurement capabilities. Rotate the rotary switch to select the desired function. Use the "SEL" button to cycle through sub-functions if available (e.g., AC/DC voltage, diode/continuity).

Voltage Measurement (AC/DC)

- Select the V~ (AC Voltage) or V— (DC Voltage) mode.
- Connect the test leads in parallel to the circuit or component under test.
- Read the voltage value on the display.

Current Measurement (AC/DC)

- Select the A~ (AC Current) or A— (DC Current) mode.
- **Important:** Connect the multimeter in series with the circuit. Ensure the circuit is de-energized before connecting.
- Apply power to the circuit and read the current value.

Resistance, Diode, Continuity, Capacitance, Frequency, Temperature

Select the corresponding mode on the rotary switch. For resistance, diode, and continuity, ensure the circuit is de-energized. For temperature, use the included temperature probe.

Multifunctional

Fully functional, can measure a variety of electronic components to meet your multi-functional needs



Figure 5: The ANENG SZ02 performing various measurements including DC current, NCV detection, temperature, AC current, and live wire identification.

Multifunctional

Fully functional, can measure a variety of electronic components to meet your multi-functional needs



Figure 6: The ANENG SZ02 demonstrating additional measurement functions such as AC voltage, DC voltage, diode testing, continuity buzzer, millivolt DC voltage, resistance, and capacitance.

5.3 Non-Contact Voltage (NCV) Detection

Long press the "NCV" button to activate the non-contact voltage detection mode. Bring the top NCV sensor of the multimeter close to an AC voltage source. The device will indicate the presence of AC voltage through audible beeps and visual alerts on the screen, providing a safer way to detect live wires without direct contact.

5.4 Flashlight Function

The ANENG SZ02 is equipped with a built-in flashlight. Turn on the flashlight to assist with measurements in dimly lit environments or to illuminate the work area. This feature is particularly useful during maintenance or inspections in dark spaces.

Flashlight lighting

Turn on the flashlight, double flashlights can assist night measurement and illuminate the front for you



Emergency flashlight
during maintenance



Figure 7: The ANENG SZ02's integrated flashlight illuminating a dark electrical box, demonstrating its utility for night measurements and illuminating the front for the user.

6. MAINTENANCE

6.1 Cleaning

Wipe the multimeter casing with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents. Ensure the device is completely dry before storage or next use.

6.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in the "Battery Installation" section (Section 4.1). Remove batteries if the device will not be used for an extended period.

6.3 Storage

Store the multimeter in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its protective silicone sheath to prevent physical damage.

7. TROUBLESHOOTING

- **No Display / Device Not Turning On:**

- Check battery installation and ensure batteries are not depleted. Replace if necessary.
- Ensure the power button is pressed firmly.

- **Inaccurate Readings:**

- Verify that the correct measurement mode is selected.
- Check test lead connections for proper insertion and good contact.
- Ensure the circuit is de-energized for resistance, continuity, and diode tests.
- Consider environmental factors like extreme temperature or humidity.

- **Continuity Buzzer Not Working:**

- Ensure the multimeter is in continuity mode.
- Check if the circuit being tested has continuity.

8. SPECIFICATIONS

| Feature | Value |
|--------------------------------------|--|
| Manufacturer | ANENG |
| Part Number | SZ02orange color |
| Item Weight | 0.6 g |
| Product Dimensions (L x W x H) | 50 x 50 x 20 mm |
| Style | SZ02 Orange |
| Measurement Accuracy | ±2.0 |
| Included Components | Multimeter unit, Test leads, User manual |
| ASIN | B0F2T1DHS6 |
| First Available Date on Amazon.co.jp | 2025/3/28 |

9. WARRANTY AND SUPPORT

ANENG is committed to providing excellent after-sales service for its products. For any questions, technical assistance, or warranty claims regarding your ANENG SZ02 Digital Multimeter, please contact ANENG customer support through the retailer where you purchased the product or visit the official ANENG store page on Amazon.co.jp for further assistance.

Link to ANENG Store: [ANENG Official Store](#)