

ZYWUOY X1/X1A

ZYWUOY X1/X1A Smart Pencil Voltage Tester Multimeter User Manual

1. INTRODUCTION

The ZYWUOY X1/X1A Smart Pencil is an advanced electrical tester designed for both voltage detection and smart multimeter functions. Featuring a 2.0-inch EBTN LCD screen, it provides clear readings in various lighting conditions. This device is an essential tool for ensuring electrical safety in daily life, offering high sensitivity detection and an optimized user experience.

2. SAFETY INFORMATION

Always exercise caution when working with electricity. Read and understand all safety warnings before using this device. Failure to follow these instructions may result in electric shock, fire, or personal injury.

- Do not attempt to measure voltages exceeding the specified limits of the device.
- Ensure the device is in good working condition before each use. Inspect the device and test leads for any signs of damage.
- Wear appropriate personal protective equipment (PPE) such as insulated gloves and safety glasses when working with electrical circuits.
- Do not use the device if it appears damaged, if the test leads are compromised, or if the battery compartment is not securely closed.
- Keep the device out of reach of children and unauthorized personnel.
- Avoid using the device in wet conditions or in environments with explosive gases or dust.

3. SETUP

The ZYWUOY X1/X1A Smart Pencil is battery-powered. Before first use, or when the low battery indicator appears, install or replace the batteries.



Battery Installation: Open the battery compartment cover on the back of the device. Insert two AAA 1.5V batteries, ensuring correct polarity (+ and -). Close the battery compartment cover securely.

Connecting Test Leads: Connect the red test lead to the positive (+) or voltage/resistance input jack and the black test lead to the common (COM) input jack on the device. Ensure the connections are firm.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

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

4.2 Automatic Mode

The X1/X1A features an intelligent chip that automatically identifies test functions. In auto mode, it can detect AC/DC voltage, resistance, and continuity without manual range selection, simplifying operation.

4.3 Non-Contact Voltage (NCV) Detection

The non-contact voltage (NCV) detection mode allows for safe identification of live wires without direct contact. Hold the tip of the device near the conductor. The LED indicators and audible alarm will signal the presence and strength of the detected voltage.



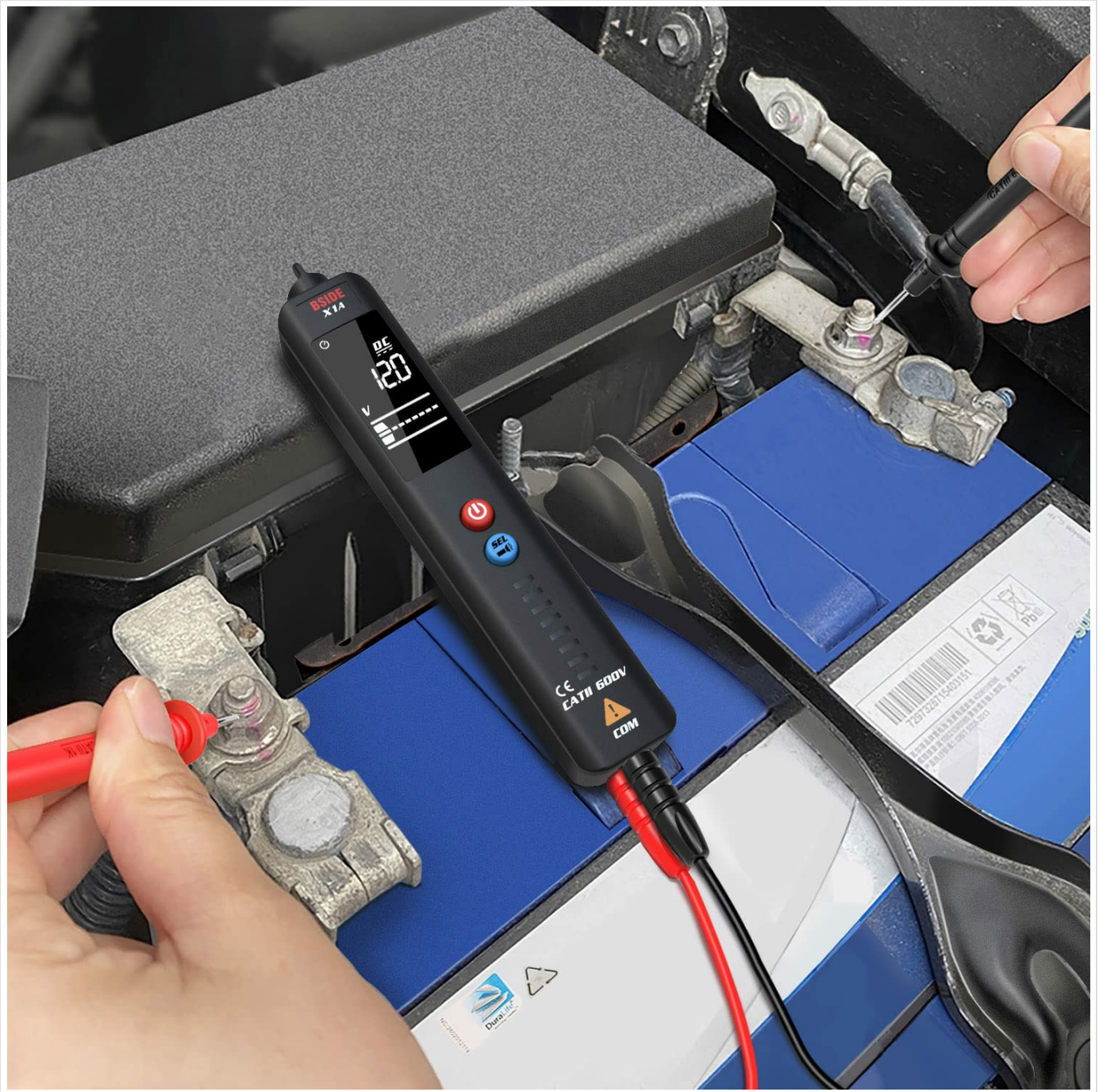
Description: This image shows the ZYWUOY X1/X1A Smart Pencil being used to detect voltage in a circuit breaker panel. The device's screen displays 'Auto' and 'AC', with several LED indicators illuminated, indicating the presence of AC voltage.

4.4 Multimeter Functions

When test leads are connected, the device can perform various multimeter functions:

- **Voltage Measurement (AC/DC):** Connect the test leads to the circuit or component. The device will display the voltage reading on the EBTN screen.
- **Resistance Measurement:** Ensure the circuit is de-energized before measuring resistance. Connect the test leads across the component to measure its resistance.
- **Capacitance Test:** The device supports capacitance testing within the range of 0 to 2mF.

- **Frequency Measurement:** The device can display frequency alongside voltage readings for AC signals.



Description: This image illustrates the ZYWUOY X1/X1A Smart Pencil being used to measure the voltage of a car battery. The test leads are connected to the battery terminals, and the device's screen shows a voltage reading of '12.0 V'.

4.5 High Sensitivity Detection Mode

The high sensitivity detection mode (6V ~ 1000V) is designed for detecting lower voltages or for more precise identification of advanced lines. Adjust sensitivity as needed for specific measurement conditions by pressing the 'SEL' button.

4.6 EBTN LCD Display and LED Indicators

The 2.0-inch EBTN LCD screen provides clear, backlit digits and letters, ensuring readability even in bright sunlight or low-light conditions. It can display up to three test results simultaneously (voltage, frequency, and analog bars). Eight LED indicators, in three colors, provide a quick visual representation of detected voltage strength.

4.7 Flashlight

The integrated flashlight provides illumination in dimly lit work areas. Activate it by pressing the flashlight button (often integrated with the power or SEL button, refer to device markings).



Description: This image highlights the flashlight feature of the ZYWUOY X1/X1A Smart Pencil. The device is shown with its built-in flashlight emitting light, useful for illuminating dark work environments.

5. MAINTENANCE

To ensure the longevity and accuracy of your ZYWUOY X1/X1A Smart Pencil, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage and corrosion.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings and proper device function.
- **Test Leads:** Regularly inspect test leads for any cuts, cracks, or damage to the insulation. Replace damaged leads immediately.

6. TROUBLESHOOTING

If you encounter issues with your ZYWUOY X1/X1A Smart Pencil, refer to the following troubleshooting steps:

- **Device does not power on:**
 - Check battery installation and ensure correct polarity.
 - Replace with fresh AAA 1.5V batteries.
- **Inaccurate readings:**
 - Ensure test leads are securely connected to the device and the circuit being tested.
 - Verify the device is in the correct measurement mode (if applicable).
 - Clean the test probes and contact points to ensure good electrical contact.
- **No voltage detection (NCV mode):**
 - Ensure the NCV sensor tip is positioned correctly and close to the conductor.
 - Check if the device is in high sensitivity mode for detecting lower voltages.

If problems persist after attempting these steps, please contact customer support.

7. SPECIFICATIONS

Feature	Specification
Model	X1/X1A
Display	2.0-inch EBTN LCD
AC Voltage Detection Range (High Sensitivity)	6V ~ 1000V
AC Voltage Detection Range (Low Sensitivity)	90V ~ 1000V
Capacitance Test Range	0~2mF; 0.01nF ± 4.5% + 5 counts
Test Speed	1s/5 tests (real-time display)
LED Indicators	8 LEDs (3 colors)
Power Source	Battery-Powered (AAA 1.5V x 2)
Manufacturer	ZYWUOY

Feature	Specification
ASIN	B0BHNSKQR2

8. WARRANTY & SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official ZYWUOY website. Keep your proof of purchase for any warranty claims. Do not attempt to repair the device yourself, as this may void the warranty and pose safety risks.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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