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› BSIDE NCV 3 Phase Sequence Presence Rotation Tester User Manual

MAXRIENY AVX1 Phase Sequence Tester

BSIDE NCV 3 Phase Sequence Presence Rotation Tester

Model: AVX1 Phase Sequence Tester

1. Overview

The BSIDE NCV 3 Phase Sequence Presence Rotation Tester (Model AVX1) is a versatile 2-in-1 non-contact device designed for both phase sequence detection and induced voltage testing. It offers a safe and portable solution for electrical professionals and enthusiasts, featuring a clear LCD color screen, adjustable sensitivity, and a rechargeable battery.

1.1 WHAT'S IN THE BOX

- AVX1 Non-contact Tester
- Charging Cable
- User's Manual



Image 1.1: The AVX1 Phase Sequence Tester and its included charging cable.

2. Key Features

- **Non-contact Phase Sequence Tester:** Safely detects 3-phase sequence (forward or reverse) without direct metal contact.
- **Non-contact Voltage Tester (NCV):** Features high sensitivity (12-1000V) and low sensitivity (90-1000V) voltage sensing modes.
- **Intensity Alarms:** Provides visual (color analog bars) and audible (beeping) alarms, along with signal strength percentage display.
- **LCD Color Screen:** Large, clear display for easy viewing of test results and indicators.
- **Rechargeable Battery:** Equipped with a 400mAh lithium battery for convenience and extended use.

Non-contact type Phase sequence detection



Image 2.1: The intelligent digital display color screen provides clear readings.

NON-CONTACT PHASE SEQUENCE TESTER

Non-contact Electric field induction



The buzzer emits an alarm sound, the green flashlight lights up, and the green analog bar is displayed simultaneously, showing the percentage of signal strength.

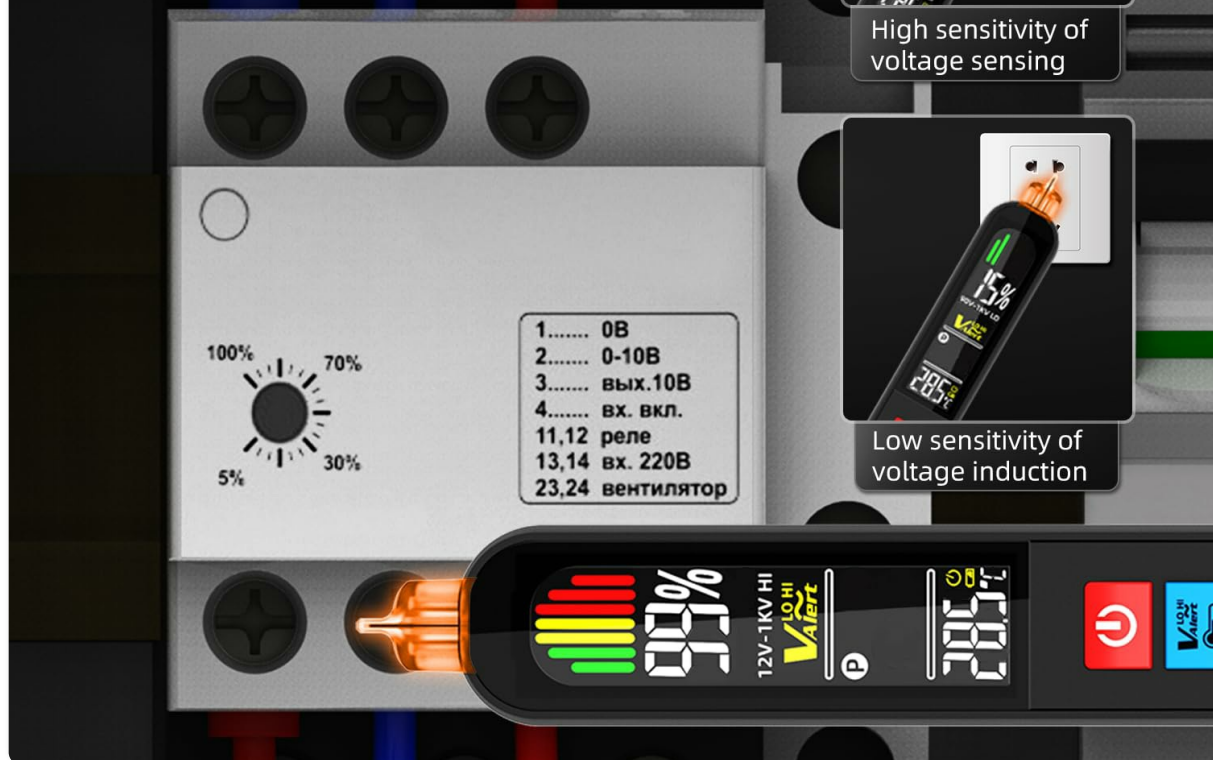


Image 2.2: Non-contact electric field induction for safe voltage detection.

3. Setup and Charging

3.1 INITIAL SETUP

Before first use, ensure the device is fully charged. The AVX1 comes with a built-in rechargeable lithium battery.

3.2 CHARGING THE BATTERY

1. Locate the charging port on the device (typically at the bottom or side).
2. Connect the provided charging cable to the device.
3. Connect the other end of the charging cable to a standard USB power adapter (not included) or a computer USB port.
4. The charging indicator on the device will illuminate during charging and typically turn off or change color when fully charged.

Rechargeable Battery 400mAh

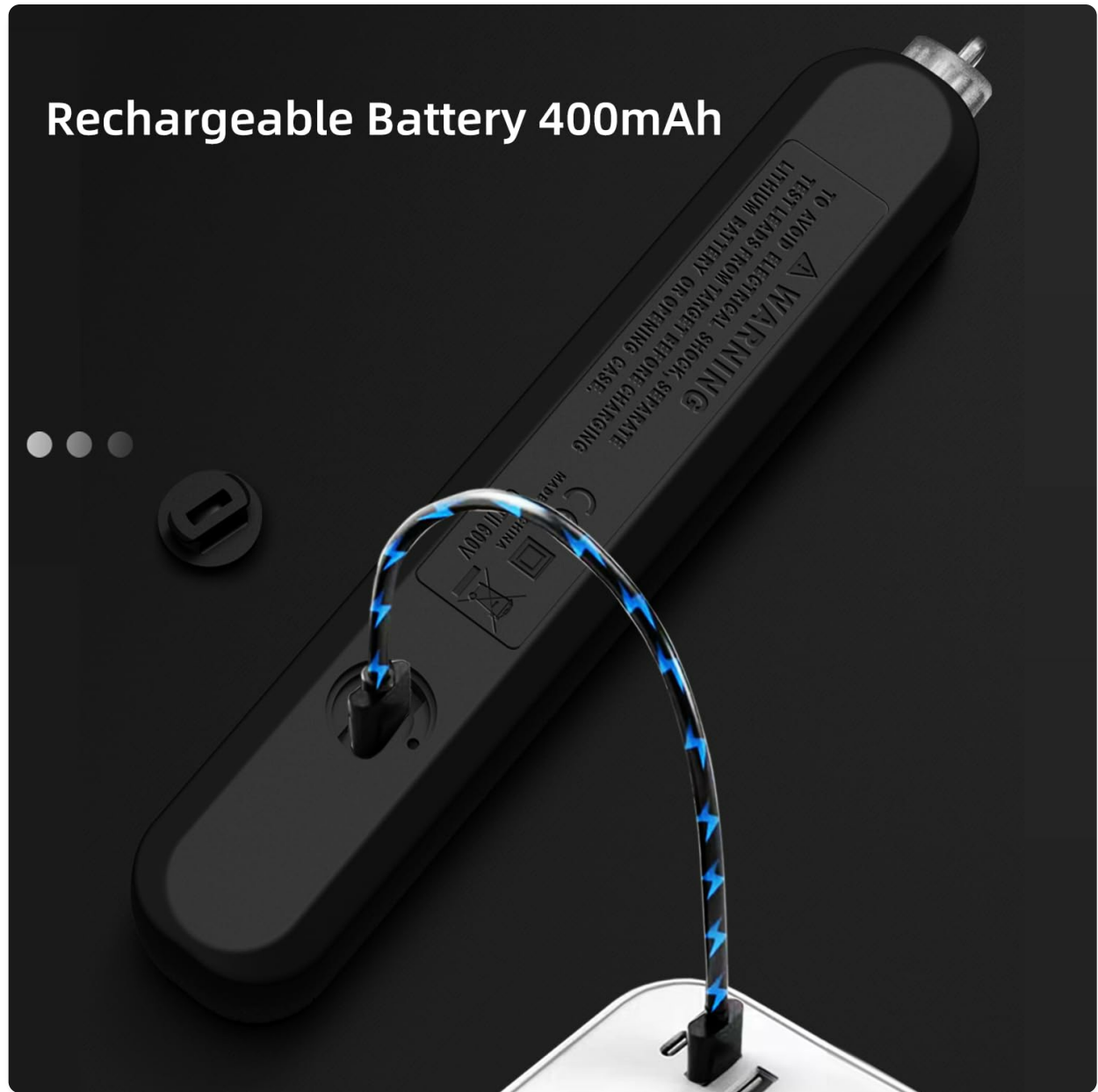


Image 3.1: The AVX1 features a convenient rechargeable 400mAh battery, charged via USB.

4. Operating Instructions

4.1 POWER ON/OFF

- To power on, press and hold the power button () until the screen illuminates.
- To power off, press and hold the power button again. The device also features an auto-shutdown function to conserve battery.

4.2 PHASE SEQUENCE DETECTION

The AVX1 can detect the phase sequence (forward or reverse) of a 3-phase AC system without direct contact.

1. Ensure the device is powered on.
2. Press the **PHASE** button to enter phase sequence detection mode.

3. Approach the three phases (A, B, C) with the sensing tip of the tester.
4. The LCD screen will display 'L' for reverse phase sequence or 'R' for forward phase sequence, along with corresponding indicators.



Image 4.1: Detecting phase sequence for phases A, B, and C.

4.3 Non-CONTACT VOLTAGE (NCV) DETECTION

The NCV function allows for safe detection of AC voltage presence.

1. Ensure the device is powered on.
2. The device automatically enters NCV mode upon power-on.
3. Approach the conductor or outlet with the sensing tip.
4. The device will beep, and the LED indicator will light up (green for low, orange for medium, red for high sensitivity detection). The screen will display an analog bar and signal strength percentage.

4.4 SENSITIVITY ADJUSTMENT

The AVX1 offers adjustable sensitivity for NCV detection:

- **Low Sensitivity (12-1000V):** Suitable for general voltage detection. Indicated by a green light and green analog bar.
- **High Sensitivity (90-1000V):** For detecting weaker signals or voltage from a distance. Indicated by an orange or red light and corresponding analog bar.

To switch sensitivity, press the **V-Alert** button. The display will indicate the current sensitivity level (LO or HI).



Image 4.2: The tester can switch between high and low sensitivity for voltage detection.

4.5 TEMPERATURE UNIT SWITCHING

The device supports switching between Celsius (°C) and Fahrenheit (°F) temperature units. Refer to the on-screen prompts or specific button (if available) for this function.

5. Maintenance

5.1 BATTERY CHARGING

Regularly charge the device's internal 400mAh lithium battery using the provided USB cable. A low battery indicator will appear on the screen when charging is required.

5.2 CLEANING

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or corrosive chemicals.
- Ensure the device is powered off and disconnected from any power source before cleaning.

6. Troubleshooting

Problem	Solution
Device does not power on.	Ensure the battery is charged. Connect the charging cable and allow it to charge for at least 30 minutes before attempting to power on again.
Inaccurate or inconsistent readings.	Ensure the sensing tip is clean. Avoid strong electromagnetic interference. Check battery level. Try switching sensitivity modes.
No response during phase sequence test.	Ensure the device is in phase sequence mode (PHASE button pressed). Confirm the presence of voltage on the phases using NCV mode first.
Screen is dim or flickering.	The battery may be low. Recharge the device. If the issue persists, contact customer support.

7. Product Specifications

Specification	Detail
Product Dimensions	1.08 x 0.79 x 6.54 inches
Item Model Number	AVX1 Phase Sequence Tester
Batteries	1 Nonstandard Battery (included)
Manufacturer	BSIDE
Brand	MAXRIENY
Power Source	Battery Powered
Style	Non-contact Phase Sequence Tester Voltage Tester
Color	Black

Specification	Detail
Item Weight	60.2 Grams (2.12 ounces)

8. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or the official MAXRIENY website. Keep your purchase receipt as proof of purchase for any warranty claims.