

BSIDE A5

BSIDE A5 Digital Multimeter User Manual

Model: A5

1. INTRODUCTION

The BSIDE A5 Digital Multimeter is a versatile and intelligent voltage detector designed for precise electrical measurements. Its compact, pen-like design and clear LCD backlight make it an essential tool for professionals and DIY enthusiasts alike, ideal for troubleshooting issues in batteries, circuits, and various electronic devices.



Image: The BSIDE A5 Digital Multimeter, showcasing its compact design and display.

2. SAFETY INFORMATION

Always adhere to safety precautions when using electrical testing equipment. Failure to do so may result in electric shock, injury, or damage to the meter or equipment under test.

- Do not exceed the maximum input values specified for each measurement range.
- Exercise extreme caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Before measuring resistance, capacitance, or continuity, ensure the circuit is de-energized and all capacitors are discharged.
- Inspect test leads for damage before each use. Do not use if insulation is compromised.
- Do not operate the meter if it appears damaged or is not functioning properly.
- Ensure the battery cover is securely closed before operation.
- The device is designed with double insulation protection and meets CAT III 600V safety standards.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- BSIDE A5 Digital Multimeter
- Test Leads (Red and Black)
- K-Type Thermocouple
- Screwdriver (for battery compartment)
- Cloth Bag
- User Manual (this document)



Image: The BSIDE A5 Multimeter, its carrying case, test leads, and other included accessories.

4. PRODUCT FEATURES

- **Intelligent Multifunctional Tester:** Measures AC/DC Current, AC/DC Voltage, Resistance, Capacitance, Frequency, Temperature, Diode, and Continuity. Features both Auto mode and Manual mode.
- **Non-Contact Voltage (NCV) Detection & Live Wire Check:** Built-in NCV sensor with HIGH (HI) and LOW (Lo) sensitivity settings for AC voltage detection and live wire identification.
- **Large Display with Backlight:** Clear LCD display with backlight and flashlight function for easy reading in various lighting conditions.
- **Safety Protection:** Double insulation, CAT III 600V, CE, FCC, RoHS certified, with full measuring range overload protection. Includes a red silicone case for drop protection.

- **Small, Portable and Versatile:** Compact size, fits in a shirt pocket, and comes with a cloth bag for portability.

5. SETUP

5.1 Battery Installation

The BSIDE A5 requires two 1.5V AAA batteries (not included).

1. Locate the battery compartment on the back of the multimeter.
2. Use the provided screwdriver to loosen the screw on the battery cover.
3. Remove the battery cover.
4. Insert two AAA batteries, observing the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery cover and tighten the screw securely.

5.2 Connecting Test Leads

For most measurements, connect the test leads as follows:

- Insert the **black** test lead into the **COM** (common) input jack.
- Insert the **red** test lead into the **VΩHzmA** input jack for voltage, resistance, frequency, capacitance, diode, continuity, and current measurements.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the **Power button** () to turn the multimeter on or off. The device will automatically power off after approximately 15 minutes of inactivity to conserve battery life.

6.2 Mode Selection

The BSIDE A5 features an intelligent Auto mode that automatically identifies and measures AC/DC voltage, resistance, and continuity. For other functions, press the **SEL button** () to cycle through available modes.

Auto Mode Selection

automatically measure voltage, resistance, continuity and frequency



Image: The BSIDE A5 display showing icons for various measurement modes, highlighting its auto-selection capability.

6.3 DC/AC Voltage Measurement

In Auto mode, the meter will automatically detect and measure DC or AC voltage. Connect the test leads in parallel to the circuit or component to be measured.

Automotive Circuit Test

Connect the test leads to the voltage terminals, then the meter will automatically measure DC voltage.



Image: The BSIDE A5 measuring DC voltage on an automotive battery, demonstrating its application in circuit testing.

6.4 DC/AC Current Measurement

To measure current, ensure the meter is in the appropriate current mode (mA). Connect the meter *in series* with the circuit. The A5 tester can automatically switch to AC/DC ampere test mode when the leads are correctly plugged into the amp port.



Amp Smart Identification

Plug in the amp port and make measurement, A5 tester can automatically switch it to AC/DC ampere test mode (no need to switch)

Image: The BSIDE A5 displaying a current measurement, illustrating its smart identification feature for AC/DC ampere testing.

6.5 Resistance Measurement

In Auto mode, the meter will automatically measure resistance. Connect the test leads across the component to be measured. Ensure the circuit is de-energized.

6.6 Capacitance Measurement

Select the capacitance mode using the SEL button. **Important:** Before measuring capacitance, always discharge the capacitor first to prevent damage to the meter or the component.

Capacitance Test

Before measuring capacitance, please discharge the capacitor first



Image: The BSIDE A5 measuring the capacitance of a large capacitor, demonstrating the proper lead placement.

6.7 Frequency Measurement

Select the frequency mode. Connect the test leads to the signal source. The meter measures frequencies from 0-9999Hz (900mVrms-20Vrms).

6.8 Temperature Measurement

Plug the K-type thermocouple into the input jacks, observing polarity. Select the temperature mode. The meter can measure temperatures from 0-1000°C (32-1832°F).

6.9 Diode Test

Select the diode test mode. Connect the red lead to the anode and the black lead to the cathode of the diode. The meter measures diodes within 3V.

6.10 Continuity Test

In Auto mode, the meter will automatically perform a continuity test. If the resistance is less than 50Ω, the beeper will sound, indicating continuity.

6.11 Non-Contact Voltage (NCV) Detection

Press the **V~Alert button** () to activate NCV mode. Move the top of the multimeter near a live AC voltage source. The display will show 'Lo' for low sensitivity or 'HI' for high sensitivity, and the beeper will sound with increasing frequency as the voltage strength increases.



Image: A hand holding the BSIDE A5, demonstrating its non-contact voltage detection feature near an electrical panel.

6.12 Live Wire Check

This function helps identify live wires. Refer to the on-screen indicators and audible alerts for live wire detection.

6.13 VFC Mode

The VFC (Variable Frequency Control) mode is designed for measuring AC voltage with variable frequency drives. Select this mode using the SEL button when testing such circuits.

7. MAINTENANCE

7.1 Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is off and disconnected from any circuits before cleaning.

7.2 Battery Replacement

When the battery indicator appears on the display, replace the batteries promptly to ensure accurate readings. Follow the battery installation steps in Section 5.1.

7.3 Storage

If the meter is not used for an extended period, remove the batteries to prevent leakage and damage. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If the multimeter is not functioning as expected, refer to the following common issues and solutions:

- **No display or weak display:** Check battery installation and replace batteries if necessary.
- **Incorrect readings:** Ensure test leads are properly connected, the correct measurement mode is selected, and the circuit is within the meter's specified range.
- **No continuity beep:** Verify the circuit resistance is below 50Ω. Check test leads for damage.
- **Meter does not respond:** Turn the meter off and then on again. If the issue persists, remove and reinsert batteries.

For persistent issues, contact customer support.

9. SPECIFICATIONS

Parameter	Value
Display	6000 counts, 2.2 inch LCD
DC Voltage	0-620V (DC mode) / 0.8-620V (Auto mode) $\pm(0.8\%+3)$
AC Voltage	0-620V (AC mode) / 0.8-620V (Auto mode) $\pm(1.2\%+5)$; 10-620V (VFC Mode) $\pm(4.0\%+3)$
DC Current	1.0-610mA $\pm(1.5\%+3)$
AC Current	1.0-610mA (40-1000Hz) $\pm(1.5\%+3)$
Resistance	0Ω-6MΩ $\pm(1.2\%+3)$; 6MΩ-60MΩ $\pm(2.0\%+10)$
Capacitance	0.5μF-6mF $\pm(3.5\%+8)$; 6mF-60.00mF $\pm(4.5\%+10)$
Frequency	0-9999Hz (900mVrms-20Vrms) $\pm(2.0\%+10)$
Temperature	0-50°C (32-122°F) $\pm(1.5\%+2)$; 50-1000°C (122-1832°F) $\pm(2.0\%+3)$
Diode Test	Measures diodes within 3V
Continuity	Beeper sounds if resistance < 50Ω
V-Alert (NCV)	Yes
Live Wire Check	Yes

Parameter	Value
Ambient Temperature	0-50°C ±2°C
Power	1.5V (AAA) x 2 (not included)
Size	139.7 x 53.7 x 32.8 mm
Weight	92g
Safety Rating	CAT III 600V, CE, FCC, RoHS

10. WARRANTY AND SUPPORT

BSIDE products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official BSIDE website. Keep your purchase receipt as proof of purchase for warranty claims.