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› BSIDE X2 Digital Smart Pen Type Multimeter with Infrared Thermometer for Electronic Parameter Detection

Sriya Sriya1qa98vctkb

BSIDE X2 Digital Smart Pen Type Multimeter with Infrared Thermometer User Manual

Model: Sriya1qa98vctkb

1. INTRODUCTION

This user manual provides detailed instructions for the safe and effective operation of the BSIDE X2 Digital Smart Pen Type Multimeter with Infrared Thermometer. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage or injury.

2. SAFETY INFORMATION

Always observe basic safety precautions when using electrical testing equipment. Failure to do so may result in electric shock, fire, or damage to the device or other equipment.

- Do not use the multimeter if it appears damaged or if the test leads are compromised.
- Ensure the correct function and range are selected before making any measurements.
- Do not exceed the maximum input values specified for each range.
- Exercise extreme caution when working with live circuits.
- Keep the device dry and clean.
- Replace batteries promptly when the low battery indicator appears.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x BSIDE X2 Multimeter
- 2 x Test Leads (Red and Black)
- 1 x User Manual
- 1 x Screwdriver
- 1 x Storage Bag



Figure 3.1: Complete package contents of the BSIDE X2 Multimeter, showing the device, test leads, screwdriver, and storage bag.

4. PRODUCT OVERVIEW

The BSIDE X2 is a smart pen-type multimeter designed for electronic parameter detection, featuring an integrated infrared thermometer and emergency lighting.



Figure 4.1: Front view of the BSIDE X2 Multimeter, highlighting the display screen and operational buttons.



Figure 4.2: Angled view of the BSIDE X2 Multimeter, illustrating its compact and ergonomic design.



Figure 4.3: Top view of the BSIDE X2 Multimeter, detailing the infrared temperature sensor and the input jack for test leads.

5. SETUP

5.1 Battery Installation

The BSIDE X2 Multimeter requires 2 x 1.5V AAA batteries (not included). To install the batteries:

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

5.2 Connecting Test Leads

To prepare the multimeter for measurement:

1. Insert the red test lead into the "INPUT" terminal.
2. Insert the black test lead into the "COM" terminal.



Figure 5.1: The red and black test leads, essential for making electrical measurements.

6. OPERATING INSTRUCTIONS

6.1 Basic Measurement (AUTO Mode)

The BSIDE X2 features an intelligent AUTO mode for simplified operation.

1. Press the red power button to turn on the instrument. The display will show "AUTO" mode.
2. Connect the test leads in parallel to the circuit, power supply, or component to be tested.
3. The multimeter will automatically discriminate between AC voltage, DC voltage, and resistance, and will display the AC frequency value if applicable.
4. If the measured resistance is less than approximately 30Ω , the built-in buzzer will sound, indicating continuity.

- 5. When measuring DC voltage, the display will simultaneously show the voltage polarity at the red test lead's point of contact.
- 6. Read the measurement result from the digital display. An analog bar graph will also show the dynamic change of the value.

6.2 Infrared Temperature Measurement

The multimeter includes an infrared temperature measurement function.

- Refer to the specific button for activating the infrared thermometer function (usually marked with a thermometer icon).
- Point the infrared sensor towards the surface of the object whose temperature you wish to measure.
- The temperature reading will be displayed on the screen.

6.3 Emergency Lighting

The device is equipped with an emergency flashlight for use in low-light conditions.

- Locate the flashlight button (often marked with a light bulb icon).
- Press the button to turn the flashlight on or off.

7. SPECIFICATIONS

Key technical specifications for the BSIDE X2 Multimeter:

Parameter	Value
Model	X2
Material	ABS
Battery Type	1.5V AAA battery x 2 (not included)
DC Voltage Range	500V
AC Voltage Range	500V
Resistance Range	10MΩ
Frequency Range	1000Hz
Package Dimensions	7.87 x 3.15 x 1.57 inches
Item Weight	8.75 ounces

8. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your multimeter.

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the multimeter in its storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries immediately when the low battery indicator appears to maintain measurement accuracy.

- **Calibration:** This device is factory calibrated. Do not attempt to recalibrate it yourself.

9. TROUBLESHOOTING

If you encounter issues with your BSIDE X2 Multimeter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not turn on.	Dead or incorrectly installed batteries.	Check battery polarity or replace with new AAA batteries.
Inaccurate readings.	Low battery; incorrect connection; exceeding measurement range.	Replace batteries; ensure test leads are properly connected; verify the measurement is within the device's specified range.
Buzzer not sounding for continuity.	Resistance is above 30Ω.	The buzzer only sounds for resistance below approximately 30Ω. This is normal operation.
Display shows "OL" or "OVER".	Measurement value exceeds the selected range.	Ensure the measurement is within the device's maximum capabilities (e.g., 500V for voltage).

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: Sriya

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