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› PerGar BSIDE S8 Digital Pen Type Multimeter User Manual

PerGar BSIDE S8

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Model: BSIDE S8 (PerGar0ghf2659k7)

Brand: PerGar

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your PerGar BSIDE S8 Digital Pen Type Multimeter. Please read this manual thoroughly before use and retain it for future reference.

The BSIDE S8 is an intelligent, pen-type digital multimeter designed for electrical testing. It features automatic recognition of test parameters, a clear three-result display, an upgraded flashlight, and a compact design for portability and ease of use.

2. SAFETY INFORMATION

WARNING: To avoid possible electric shock, fire, or personal injury, please read all safety information before you use the product.

- Always adhere to local and national safety codes.
- Do not use the multimeter if it appears damaged or if the test leads are damaged.
- Do not apply more than the rated voltage, as marked on the multimeter, between the terminals or between any terminal and earth ground.
- Use caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Keep fingers behind the finger guards on the test probes during use.
- Do not operate the multimeter around explosive gas, vapor, or dust.
- Remove the test leads from the circuit before changing functions.
- Ensure the battery is properly charged for accurate readings.

3. PACKAGE CONTENTS

Verify that all items listed below are present and undamaged:

- 1 x PerGar BSIDE S8 Digital Pen Type Multimeter
- 2 x Test Pens (Test Leads)
- 1 x USB Charging Cable
- 1 x Storage Bag
- 1 x User Manual (this document)



Figure 3.1: Contents of the PerGar BSIDE S8 package, including the multimeter, test leads, USB charging cable, and storage bag.

4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your BSIDE S8 multimeter.

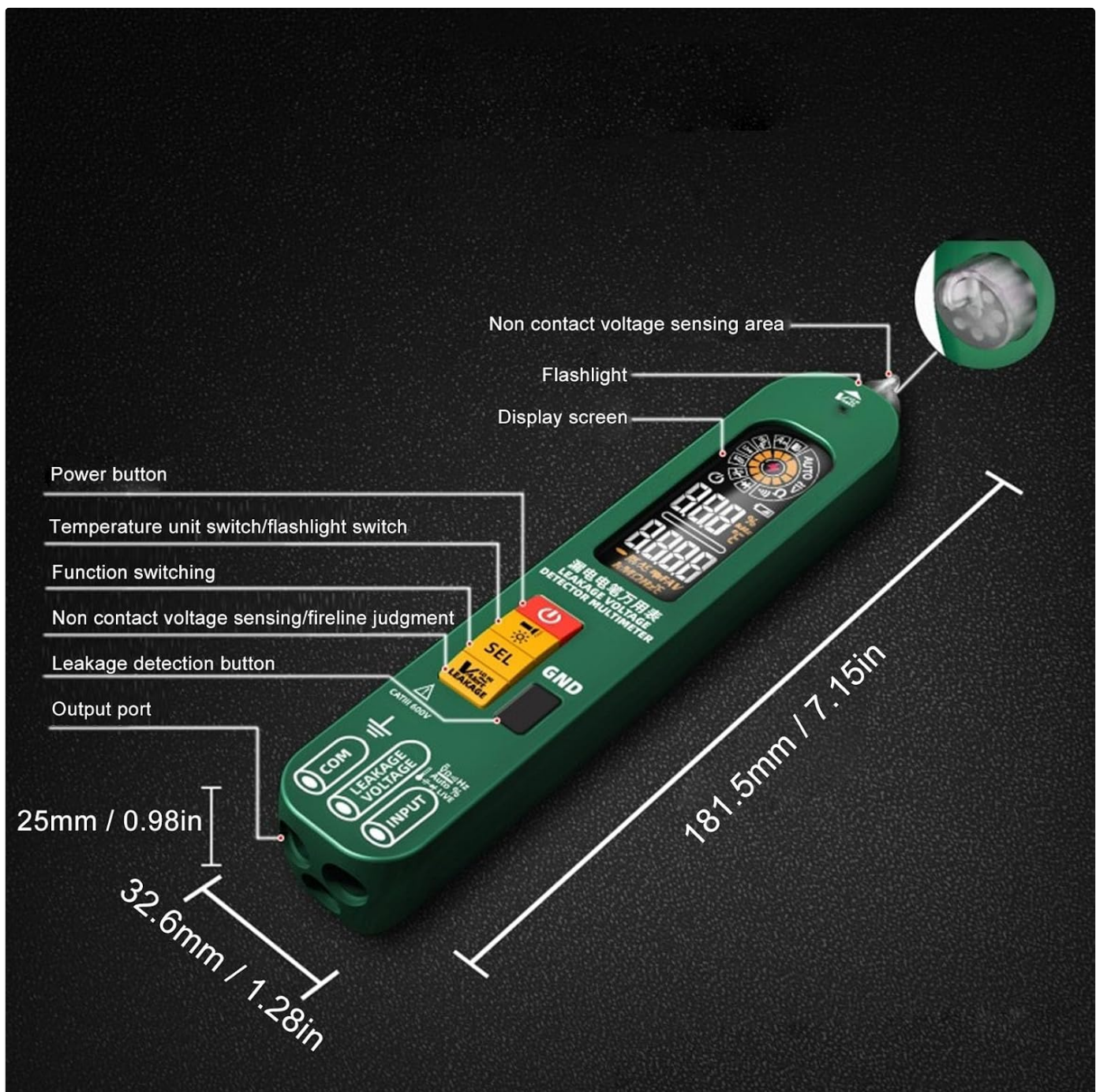


Figure 4.1: Labeled diagram of the BSIDE S8 multimeter, highlighting the non-contact voltage sensing area, flashlight, display screen, power button, temperature unit switch, function switching button, leakage detection button, and output ports (COM, LEAKAGE VOLTAGE, INPUT).

Key Features:

- **Three Result Displays:** Provides clear and easy-to-read measurements.
- **Intelligent Auto Recognition:** Automatically identifies test parameters and selects the appropriate range.
- **Upgraded Flashlight:** Assists in working in dimly lit environments.
- **Dual Mode (Multimeter & Voltage Detector):** Combines multiple testing functionalities.
- **Pen Type Design:** Compact and portable for efficient single-hand operation.

5. SETUP

5.1 Charging the Battery

The BSIDE S8 is powered by a built-in 3.7V lithium battery (400mAh). Before first use, or when the battery indicator shows low power, charge the device using the provided USB cable.

1. Connect the small end of the USB cable to the charging port on the multimeter.
2. Connect the standard USB end to a USB power adapter (not included) or a computer's USB port.
3. The charging indicator on the multimeter will show the charging status. Once fully charged, disconnect the cable.

5.2 Connecting Test Leads

For most measurements, the test leads need to be connected to the appropriate input jacks.

1. Insert the black test lead into the "COM" (Common) jack.
2. Insert the red test lead into the "INPUT" jack for most voltage, resistance, capacitance, and diode measurements.
3. For specific leakage voltage measurements, refer to the "LEAKAGE VOLTAGE" jack instructions in the operating section.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the **Power button** (usually marked with ) to turn the multimeter on or off.

6.2 Intelligent Auto Recognition Mode

The BSIDE S8 features an intelligent mode that automatically identifies the measurement type (e.g., AC/DC voltage, resistance, continuity) and selects the appropriate range. This is the default mode upon power-on.

6.3 Function Switching

Press the **SEL button** to cycle through different measurement functions if the automatic mode does not select the desired function, or for specific manual selections (e.g., AC vs. DC voltage in some contexts, or specific diode/capacitance modes).

6.4 Basic Measurements

- **Voltage Measurement (AC/DC):**

In intelligent mode, connect the test leads across the circuit or component to measure voltage. The multimeter will automatically detect AC or DC voltage and display the reading.

- **Resistance Measurement:**

Ensure the circuit is de-energized. Connect the test leads across the component to measure resistance. The multimeter will automatically display the resistance value.

- **Continuity Test:**

Ensure the circuit is de-energized. Connect the test leads across the circuit or component. A low resistance (typically below 50 ohms) will trigger an audible beep, indicating continuity.

6.5 Advanced Functions

- **Non-Contact Voltage (NCV) Detection:**

The NCV function allows detection of AC voltage without direct contact. Hold the top end of the multimeter near a live wire or outlet. The device will indicate the presence of voltage through visual and/or audible alerts.

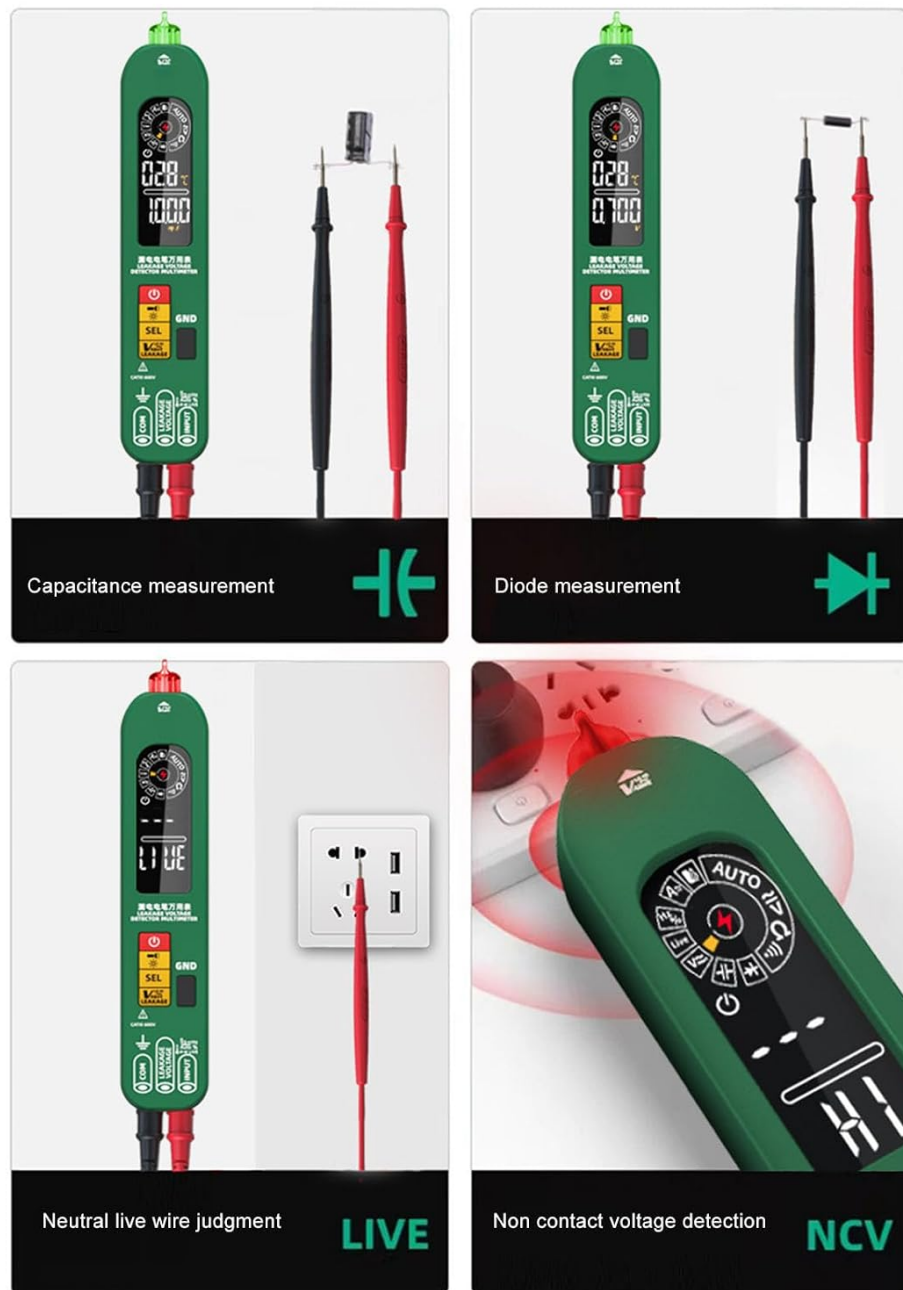


Figure 6.1: The BSIDE S8 performing various measurements, including Capacitance, Diode, Neutral Live Wire judgment, and Non-Contact Voltage (NCV) detection.

- **Leakage Voltage Detection:**

To detect voltage leakage, press and hold the **GND button** while using the appropriate test lead. The display will show the accurate leakage voltage value.



Figure 6.2: A hand operating the BSIDE S8 multimeter, demonstrating voltage leakage detection by pressing and holding the GND button to obtain an accurate display value.

- **Capacitance Measurement:**

Ensure the capacitor is fully discharged before testing. Connect the test leads across the capacitor terminals. The multimeter will display the capacitance value.

- **Diode Test:**

Connect the test leads across the diode. The multimeter will display the forward voltage drop for a good diode. Reverse the leads to check for open circuit.

- **Neutral Live Wire Judgment:**

This function helps distinguish between live and neutral wires. Follow the on-screen prompts or specific instructions for this mode.

- **Breakpoint Judgment:**

Utilize the NCV function to detect breaks in wires. Move the multimeter along the wire; a change in NCV indication can pinpoint a break.



Figure 6.3: The BSIDE S8 demonstrating breakpoint judgment using NCV, frequency measurement (Hz), and automatic display of ambient temperature.

- **Frequency Measurement (Hz):**
Connect the test leads to the circuit to measure the frequency of an AC signal.
- **Ambient Temperature Display:**
The multimeter can automatically display the ambient temperature.

6.6 Flashlight Function

Press the **Flashlight button** (often integrated with the temperature unit switch) to turn the built-in flashlight on or off. This is useful for illuminating dark work areas.

Flashlight lighting function
Not afraid of night

Electronic maintenance line inspection
Quick response to buzzer on and off



Figure 6.5: The BSIDE S8 multimeter being used for electronic maintenance line inspection, demonstrating its quick response for continuity checks.



Figure 6.6: The BSIDE S8 multimeter being used by a technician to test connections within an electrical panel, showcasing its application in professional settings.

7. MAINTENANCE

7.1 Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the display clean for optimal readability.

7.2 Storage

When not in use, store the multimeter and its accessories in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged and recharge periodically to maintain battery health.

7.3 Battery Care

The device uses a rechargeable lithium battery. Avoid fully discharging the battery frequently. Recharge when the low battery indicator appears. Do not attempt to replace the internal battery yourself; contact customer support if battery issues arise.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Multimeter does not power on.	Battery is discharged.	Charge the battery using the USB cable.
Inaccurate readings.	Low battery; incorrect function selected; poor test lead connection.	Ensure battery is charged. Verify correct function or use intelligent mode. Check test lead connections.
No NCV detection.	No AC voltage present; NCV sensor not close enough to source.	Confirm AC voltage is present. Move the NCV sensor closer to the live source.
Display shows "OL" (Overload).	Measurement exceeds the selected range or multimeter's maximum capacity.	Ensure the measurement is within the device's specifications. In auto-ranging mode, this indicates the value is too high for the device.

9. SPECIFICATIONS

Feature	Detail
Model	BSIDE S8 (PerGar0ghf2659k7)
Brand	PerGar
Power Source	3.7V Lithium Battery (400mAh), Rechargeable via USB
Display	Three-result digital display
Measurement Functions	AC/DC Voltage, Resistance, Continuity, Capacitance, Diode, NCV, Leakage Voltage, Frequency, Ambient Temperature
Special Features	Intelligent Auto Recognition, Flashlight, Pen Type Design
Dimensions (Approx.)	181.5mm x 32.6mm x 25mm (7.15 x 1.28 x 0.98 inches)
Weight (Approx.)	9.77 ounces (277 grams)
ASIN	B0D94B5747

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact PerGar customer service through the retailer where the product was purchased or visit the official PerGar store page on Amazon:

[Visit the PerGar Store on Amazon](#)

Please have your model number (BSIDE S8 / PerGar0ghf2659k7) and ASIN (B0D94B5747) available when contacting

support.

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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