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allsun EM9804

allsun EM9804 Electrical Receptacle Socket Outlet Analyzer Tester

Model: EM9804
Brand: allsun

1. Product Overview

The allsun EM9804 Electrical Receptacle Socket Outlet Analyzer Tester is a compact and reliable tool designed to quickly check and confirm the proper wiring of AC outlets. It is specifically engineered to detect common improper wiring problems and conditions in standard 95-125 VAC outlets, making it an essential device for electricians, inspectors, technicians, and homeowners.



This image displays two allsun EM9804 Electrical Receptacle Testers. One tester is shown from the front, highlighting its LED indicator panel and three prongs. The other tester is angled to show its compact size and ergonomic design. The LED panel clearly labels indicators for 'OPEN GROUND', 'OPEN NEUTRAL', 'OPEN HOT', 'HOT/GRD REV', 'HOT/NEU REV', and 'CORRECT'.

2. Safety Information

Always exercise caution when working with electrical outlets and wiring. This device is designed to assist in identifying wiring faults, but it does not replace the need for proper electrical safety practices. Read and understand all instructions before use.

- Do not use the tester if it appears damaged.
- Ensure the outlet is dry before inserting the tester.
- This tester is designed for standard 95-125 VAC outlets only.
- Use caution when working with voltage above 30V AC rms, 42V peak, or 60V DC. Such voltages pose a shock hazard.
- Always consult a qualified electrician for any wiring repairs or modifications.



The allsun EM9804 tester is shown plugged into a standard wall outlet. Accompanying text provides important environmental specifications: Operating Temperature (0°C ~ 40°C), Relative Humidity (<80%), and Storage Temperature (-10°C ~ 45°C), Relative Humidity (<80%). A critical safety note advises caution when working with voltages above 30V AC rms, 42V peak, or 60V DC due to shock hazard.

3. Product Features

- **Receptacle Tester Function:** Checks and confirms proper wiring of AC outlets, detects common improper wiring problems in standard 95-125 VAC outlets, and identifies faulty wiring in 3-wire receptacles.
- **Easy To Read:** Utilizes color-coded lights for clear indication of correct wiring or faults. An easy-to-understand chart on the tester aids visual interpretation.
- **Durable & Safe & Small:** Features a compact, ergonomic, impact-resistant ABS housing with a textured side for grip, making it portable and easy to carry.
- **Multiple Detection (No GFCI Test Button):** Detects wiring faults such as open ground, open neutral, open hot, dual open (neutral and ground), reversed hot/ground, and reversed hot/neutral. *Note: This tester does not indicate ground quality or reversal of grounded and grounding conductors, and does not have a GFCI test button.*
- **Accurate Home Inspectors:** An ideal tester for home inspectors, widely used by professionals and homeowners for

checking outlet wiring in various settings.



This image shows the allsun EM9804 tester inserted into a wall receptacle. Key features highlighted are the absence of a GFCI test button and its primary function to detect faulty wiring in standard 3-wire receptacles. The operating voltage is specified as AC 95V ~ 125V at 60Hz. A diagram of the tester's indicator lamps ('R', 'Y1', 'Y2') is also visible.

4. Specifications

Specification	Value
Product Dimensions	2.7 x 1.4 x 1.8 inches
Item Model Number	EM9804
Item Weight	1.4 ounces
Brand	allsun

Specification	Value
Power Source	Corded Electric
Style	NOT GFCI EM9084
Color	Blue, Black
Manufacturer	Zhangzhou Haimao Dianzi Keji Co., LTD

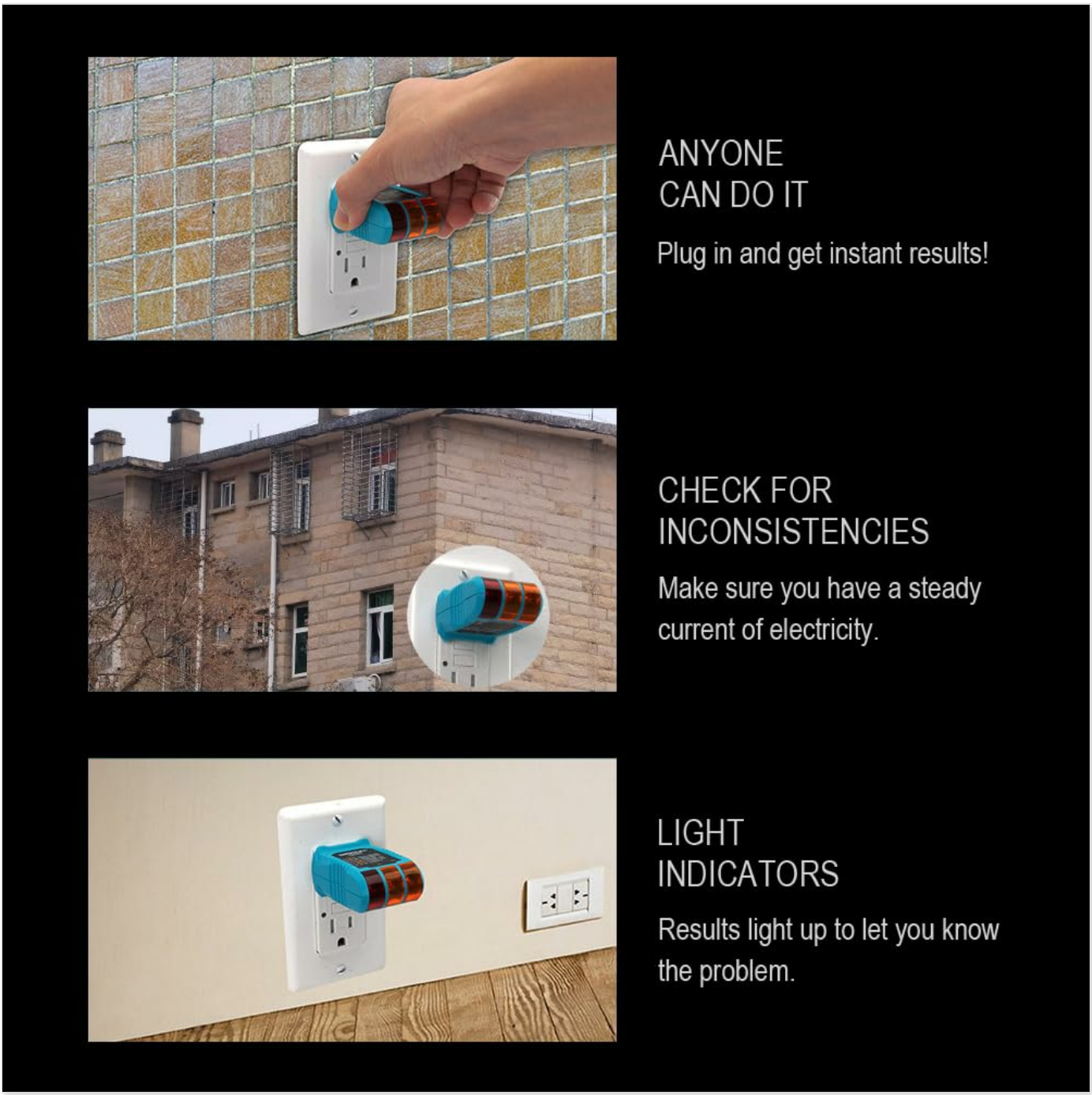


This image provides the physical dimensions of the allsun EM9804 Electrical Receptacle Tester. It shows two views of the tester, one from the front and one from an angle, with measurements indicating a height of 3.1 inches, a width of 1.5 inches, and a depth of 1.2 inches. This highlights the compact and portable nature of the device.

5. Setup and Operation

5.1 Initial Setup

The allsun EM9804 tester requires no batteries or complex setup. Simply plug the device directly into the 3-prong electrical receptacle you wish to test.



This composite image illustrates the simplicity of using the allsun EM9804 tester. The top panel shows a hand plugging the tester into an outlet, emphasizing 'ANYONE CAN DO IT' and 'Plug in and get instant results!'. The middle panel depicts the tester in an outdoor setting, indicating its use to 'CHECK FOR INCONSISTENCIES' and ensure a steady current. The bottom panel focuses on the 'LIGHT INDICATORS', explaining that 'Results light up to let you know the problem'.

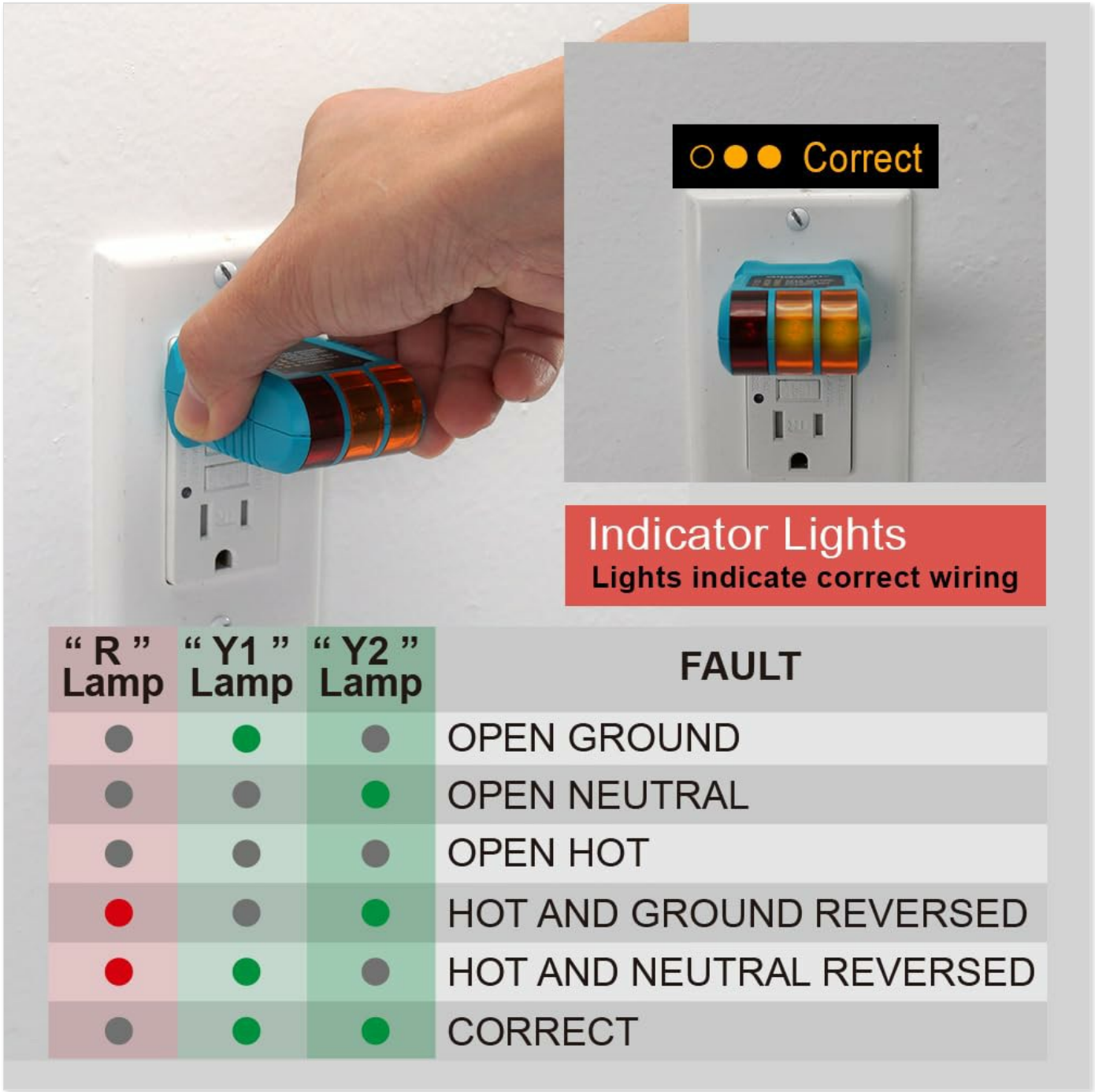
5.2 Interpreting Results

Once plugged in, the tester's three LED indicator lights (labeled R, Y1, Y2) will illuminate in specific patterns to indicate the wiring status of the outlet. Refer to the table below to understand the meaning of each light combination:

"R" Lamp	"Y1" Lamp	"Y2" Lamp	Fault
Off (O)	On (●)	Off (O)	OPEN GROUND
Off (O)	Off (O)	On (●)	OPEN NEUTRAL

"R" Lamp	"Y1" Lamp	"Y2" Lamp	Fault
Off (O)	On (●)	On (●)	OPEN HOT
On (●)	Off (O)	Off (O)	HOT AND GROUND REVERSED
On (●)	Off (O)	On (●)	HOT AND NEUTRAL REVERSED
Off (O)	On (●)	On (●)	CORRECT

Note: (●) indicates the lamp is ON, (O) indicates the lamp is OFF.



This image provides a crucial guide for interpreting the allsun EM9804 tester's results. It features a table that maps the illumination patterns of the 'R', 'Y1', and 'Y2' lamps to specific wiring conditions: Open Ground, Open Neutral, Open Hot, Hot and Ground Reversed, Hot and Neutral Reversed, and Correct wiring. A visual representation of the tester plugged into an outlet with 'Correct' wiring indicated by the lights is also shown.

6. Maintenance

The allsun EM9804 tester is a low-maintenance device. To ensure its longevity and accurate performance:

- Keep the tester clean and dry. Wipe with a soft, dry cloth if necessary.
- Avoid exposing the tester to extreme temperatures or humidity outside of its specified operating and storage environments.
- Store the tester in a safe place where it will not be dropped or damaged.
- Do not attempt to open or repair the device. There are no user-serviceable parts inside.

7. Troubleshooting

The EM9804 is designed for straightforward operation. If you encounter unexpected results, consider the following:

- **No Lights Illuminate:** Ensure the outlet has power. If no lights appear, the outlet may be dead (no power) or the tester may be faulty. Test the tester in a known working outlet.
- **Inconsistent Readings:** Ensure the tester is fully inserted into the outlet. Loose connections can lead to inaccurate readings.
- **Understanding Faults:** Each light pattern corresponds to a specific wiring fault. Refer to the 'Interpreting Results' table (Section 5.2) to correctly identify the issue.
- **Combination of Defects:** The tester will not detect a combination of defects. If multiple issues are suspected, professional inspection is recommended.

For any wiring faults indicated by the tester (e.g., Open Ground, Reversed Polarity), it is strongly recommended to consult a qualified electrician for inspection and repair to ensure electrical safety.

8. Warranty and Support

Specific warranty information for the allsun EM9804 Electrical Receptacle Socket Outlet Analyzer Tester is not provided in this manual. For details regarding warranty coverage, technical support, or service, please refer to the product packaging or contact allsun customer service directly through their official website or the retailer from whom the product was purchased.

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