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## Irfora T 003

# Irfora Smart Socket Tester (Model T 003) Instruction Manual

Model: T 003 | Brand: Irfora

## INTRODUCTION

The Irfora Smart Socket Tester (Model T 003) is designed to quickly and accurately detect the wiring status of electrical sockets and test the functionality of Residual Current Device (RCD) leakage switches. This device ensures the safety of household electricity by providing clear, digital readings of voltage, frequency, and wiring conditions directly on its LCD screen. Its compact and portable design makes it an essential tool for testing electrical outlets in various environments, including homes, offices, schools, and factories.

## SAFETY INFORMATION

- Always ensure your hands are dry before handling electrical devices.
- Do not use the tester if it appears damaged or faulty.
- This device is designed for testing standard US 90-120V outlets. Do not use it with voltages outside this range or with incompatible plug types.
- The RCD test button should only be pressed on circuits protected by an RCD. Pressing it on a non-RCD protected circuit will not trip the breaker and could indicate a false sense of security.
- Always follow local electrical safety regulations.
- Keep out of reach of children.

## PRODUCT OVERVIEW

The Irfora Smart Socket Tester features a clear LCD screen for displaying test results, voltage, and frequency. It includes a dedicated RCD test button for leakage detection.

# SMART DIGITAL DISPLAY LCD SOCKET OUTLET TESTER



Image: Front view of the Irfora Smart Socket Tester, highlighting its digital LCD display. The screen shows "CORRECT" and "AC 110V 60Hz".

## CLEARLY LCD SCREEN DISPLAY

the test result,  
voltage and frequency are all displayed on the LCD screen



Image: A close-up view of the Irfora Smart Socket Tester's LCD screen, clearly showing "CORRECT" wiring status and "AC 110V 60Hz" voltage and frequency readings.

## SETUP

The Irfora Smart Socket Tester is designed for immediate use. No complex setup or battery installation is required. Simply plug the device into the electrical outlet you wish to test.

# JUST PLUG AND PLAY

Smart socket tester for detecting the wiring situation of the socket. Reliable quality and high performance ensures to get the result accurately and quickly.



Image: The Irfora Smart Socket Tester plugged into a wall outlet, demonstrating its "plug and play" functionality.

## OPERATING INSTRUCTIONS

### 1. Basic Wiring Test

1. Plug the Irfora Smart Socket Tester into the three-hole power socket you intend to test.
2. Observe the LCD screen. The device will automatically display the detected wiring status (e.g., "CORRECT") along with the voltage and frequency (e.g., "AC 110V 60Hz").

### 2. RCD Leakage Switch Detection

1. Ensure the socket is properly wired and protected by an RCD (Residual Current Device).
2. With the tester plugged in, short press the red "TEST" button labeled "RCD".
3. A functional RCD should trip, cutting power to the circuit. If the RCD does not trip, it indicates a potential fault with the RCD or the wiring, and further investigation by a qualified electrician is recommended.
4. To restore power, reset the RCD breaker.

### 3. Interpreting Test Results

The LCD screen will display one of the following wiring statuses:

- **CORRECT:** The wiring is correct.
- **MISSING GROUND:** The ground wire is not connected or faulty.
- **MISSING NEUTRAL:** The neutral wire is not connected or faulty.
- **LIVE NEUTRAL REVERSE:** The live and neutral wires are swapped.
- **LIVE GROUND REVERSE:** The live and ground wires are swapped.
- **LIVE GROUND REVERSE & MISSING GROUND:** Both live and ground wires are swapped, and the ground is missing.

Any result other than "CORRECT" indicates a wiring fault that should be addressed by a qualified electrician to ensure electrical safety.

## 6 Test Results as Following



- |                       |  |
|-----------------------|--|
| ● CORRECT             | ● MISSING GROUND                       |
| ● MISSING NEUTRAL     | ● LIVE NEUTRAL REVERSE                 |
| ● LIVE GROUND REVERSE | ● LIVE GROUND REVERSE & MISSING GROUND |



Image: A visual representation of the six possible test results displayed by the Irfora Smart Socket Tester, including "CORRECT", "MISSING GROUND", "MISSING NEUTRAL", "LIVE NEUTRAL REVERSE", "LIVE GROUND REVERSE", and "LIVE GROUND REVERSE & MISSING GROUND".

## MAINTENANCE

The Irfora Smart Socket Tester requires minimal maintenance. Keep the device clean and dry. Wipe the exterior with a soft, damp cloth if necessary. Do not use abrasive cleaners or immerse the device in water. Store in a cool, dry place

away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING

- **Device does not power on or display results:**

- Ensure the socket has power. Test with a known working appliance.
- Check if the tester is fully inserted into the socket.
- If the issue persists, the device may be faulty.

- **RCD test button trips GFCI/RCD immediately upon plugging in:**

- This could indicate a fault within the tester itself, causing it to draw excessive current or simulate a leakage condition incorrectly.
- Try the tester in a different, known good RCD-protected outlet. If the problem persists, the tester may be defective.

- **Inconsistent readings:**

- Ensure a stable connection to the outlet.
- Test multiple outlets to confirm if the issue is with the tester or a specific outlet.

For issues not covered here, please contact customer support.

## SPECIFICATIONS

<b>Model</b>	T 003
<b>Plug Type</b>	US Plug
<b>Measuring Voltage Range</b>	90~120V (US plug)
<b>Measuring Voltage Accuracy</b>	$\pm(2\%+5)$
<b>Whole Machine Working Current</b>	$\leq 3\text{mA}$ (not in RCD status)
<b>RCD Current</b>	$\geq 30\text{mA}$
<b>Working Temperature</b>	0~40°C
<b>Working Humidity</b>	20%~75%RH
<b>Storage Temperature</b>	-10~50°C
<b>Storage Humidity</b>	20%~80%RH
<b>Altitude</b>	$\leq 2000$ meters
<b>Product Dimensions (US plug)</b>	68 x 60 x 45 mm (2.68 x 2.36 x 1.77 inches)
<b>Item Weight</b>	77g (2.72oz)



Image: Technical drawing showing the dimensions of the Irfora Smart Socket Tester: 68mm (2.68in) height, 60mm (2.36in) width, and 45mm (1.77in) depth for the US plug version.

- Measuring Voltage Accuracy:  $\pm(2\%+5)$
- Working Humidity: 20%~75%RH
- Storage Humidity: 20%~80%RH
- Whole Machine Working Current: <3mA (not in RCD status)
- Measuring Voltage Range: 90~120V(US plug), 220~250V(EU plug)
- Working Temperature: 0~40°C
- Storage Temperature: -10~50°C
- Altitude: <2000 meters



Image: A graphic displaying key technical specifications such as measuring voltage range, accuracy, working temperature, and humidity.

## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact the manufacturer directly through their official website or the retailer where the product was purchased. Please have your product model number (T 003) and purchase date available when contacting support.

