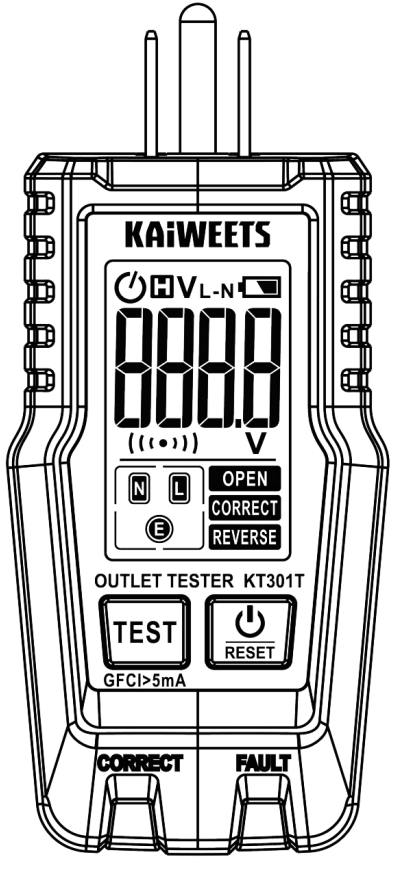
KAiWEETS

User Manual

Outlet Tester KT301T

MADE IN CHINA

Contact us: support@kaiweets.com



Contents

Before Using

Please read this manual carefully before using and keep it for future reference.

⚠Warnings

To ensure safe operation and maintenance of the tester, follow these instructions. Failure to comply may result in serious injury or death.

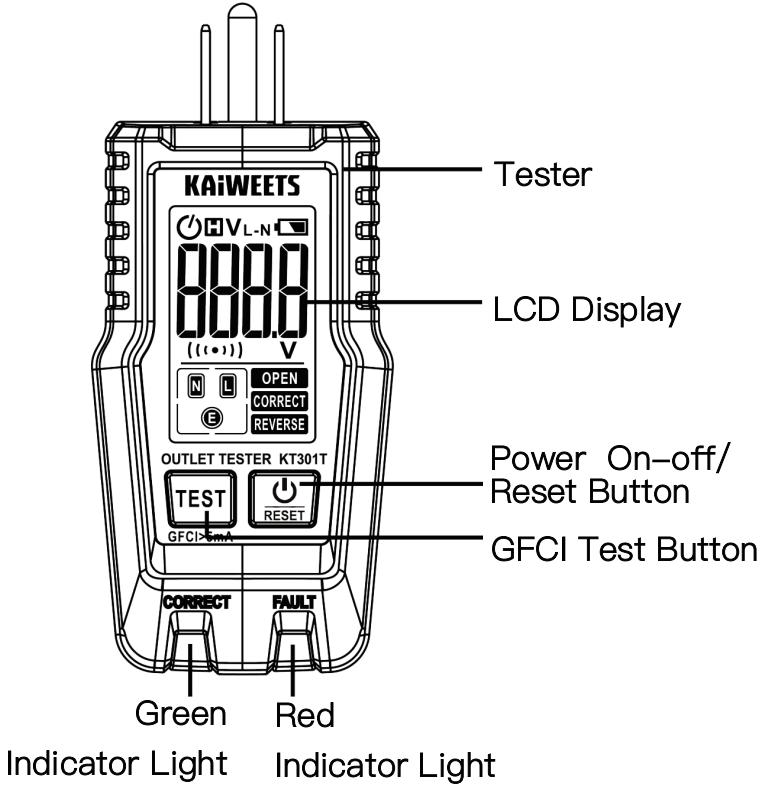
- This outlet tester is **only** for North American 120V outlets. **DO NOT** connect it to higher voltage outlets.
- Before use, verify the tester's operation by testing on a known live and correctly wired circuit.
- Do not use the tester if it is damaged.

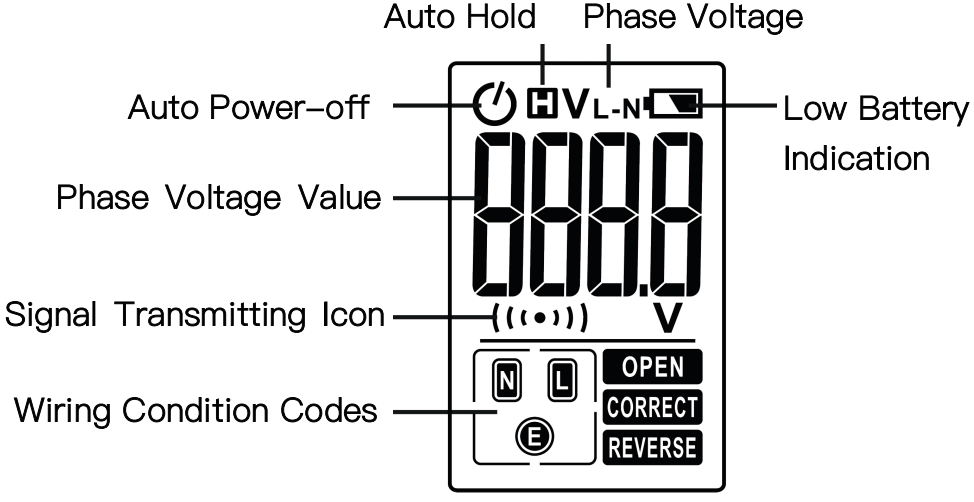
- The tester is for indoor use only.
- Other devices or equipment connected to the circuit under test may interfere with the tester. Clear the circuit before testing.
- The outlet tester only detects common wiring issues. Always consult a qualified electrician to resolve wiring problems.
- Do not attempt GFCI ground fault testing on circuits with wiring errors. Consult a qualified electrician to resolve wiring issues.
- This device is suitable for standard three-wire outlets commonly used in residential and commercial buildings in North America.

Product Description

The **KAIWEETS KT301T Outlet Tester** is a compact and reliable tool designed to quickly identify common wiring problems in standard electrical outlets. It features a clear LED display that indicates wiring conditions such as open ground, open neutral, and reversed wires, making it ideal for verifying the safety and correctness of outlet installations. Additionally, the tester includes a built-in GFCI test function, allowing users to ensure that ground fault circuit interrupters are working properly. Whether used in home inspections, renovations, or routine maintenance, the KT301T provides users with a fast and easy way to test and diagnose outlet wiring, making it a practical choice for electricians, handymen, and homeowners alike.

1. Product Overview





2. Operating Instructions

2.1 Turn On/Off

Press and hold the “ 

” button to turn the tester on and off. The device will auto-shut off after 5 minutes of inactivity when the line voltage is 0.

2.2 Wiring Condition

– Plug tester into the electrical outlet being tested. If the outlet wiring is incorrect, the display will illuminate with an orange backlight, signaling a wiring error. Refer to the LCD display to identify the specific wiring issue (see below function cross-reference), then unplug the tester.

– When the outlet wiring is correct and the voltage is within the normal range, the screen displays “CORRECT,” the signal transmitting icon “ ((•)) ” flashes, and both the green backlight and the green wiring status indicator light up.

NOTE:

- Even if the wiring is correct, the orange backlight will also illuminate if the voltage is below 85V (30V~85V DC) or above 135V (135V~ 150V AC), indicating that the line voltage is outside the normal range.
- If a low (30~85 V AC) or high (135~150 V AC) voltage is detected, the red indicator will light up. When the red indicator (for low or high voltage) and the green one are on at the same time, it means the line voltage is outside the normal range, but the

wiring is correct.

- If the tester indicates that the outlet is not wired correctly, consult a qualified electrician.

NOTE:

Unspecified conditions include, but are not limited to, grounding quality, multiple live wires, reversed neutral and ground wires, and defect combinations other than simultaneous open circuits in neutral and ground wires.

Function Cross-Reference

DISPLAY	CONDITION
Live & Neutral & Ground – Correct	Correct Wiring
Ground – Open	Open Ground
Neutral – Open	Open Neutral
– – –	Missing Live
Live & Ground – REVERSE	Live & Ground Reversed
Live & Neutral – REVERSE	Live & Neutral Reversed
Live & Neutral & Ground – REVERSE	Live & Ground Reversed Open Ground

2.3 Outlet Voltage Testing

Insert the tester into a standard three-hole power outlet and read the voltage value (in volts) from the tester's display.

2.4 Ground Fault Circuit Interrupter (GFCI) Testing

If the test indicates that the outlet is not wired correctly, DO NOT attempt to test the GFCI device. Consult a qualified electrician.

To test the GFCI device, press and hold the " **TEST** " button on the tester for more than 2 seconds. Following the test:

- If the GFCI device trips, de-energizing the circuit, the display will show "PAS" and

the Wiring Condition Indicator will flash, confirming a successful trip.

- If the circuit remains Energized, the GFCI device did not trip. This may indicate incorrect wiring, improper installation, or a malfunctioning GFCI device. In this case, consult a qualified electrician.

2.5 Data Hold Function

The KT301T outlet tester will activate data hold mode automatically when unplugged or when power is disconnected. It will auto-shut-off in 5 minutes if no operations are performed.

NOTE: The data hold function only retains the real-time data from the last measurement and the indicator light status at that time.

3. Technical Specifications

- Phase Voltage Measurement Range: 30~150V (45~65Hz)
- Accuracy: ± (3.0%+2)
- Operating Altitude: ⩽6562ft (⩽2000 meters)
- Relative Humidity: <85%, non-condensing
- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Storage Temperature: -4°F to 140°F (-20°C to 60°C)
- GFCI Current: >5mA

Three Years Warranty

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