

GOLDEN BLUE VD808

GOLDEN BLUE VD808 Digital Socket Tester User Manual

Model: VD808

1. INTRODUCTION

The GOLDEN BLUE VD808 is a versatile 2-in-1 intelligent multi-purpose instrument designed for electrical testing. It functions as a digital socket tester and a power pollution detector. This device offers stable performance, high reliability, clear readings, and overload protection. It is an ideal tool for laboratories, factories, radio enthusiasts, and households, providing essential information for ensuring electrical safety. The VD808 can perform various tests including AC voltage (2-440V 50~60Hz), DC voltage (1.5V~30V), continuity, non-contact voltage (NCV) measurement, and comprehensive socket detection.



Figure 1: The VD808 Digital Socket Tester, a compact and ergonomic device for electrical testing.

2. SETUP

2.1 Battery Installation

The VD808 requires two (2) AAA 1.5V batteries for operation (batteries are not included). Follow these steps to install the batteries:

1. Locate the battery compartment cover on the rear of the device.
2. Use a suitable tool (e.g., a small screwdriver) to open the battery compartment cover.
3. Insert two AAA 1.5V batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Replace the battery compartment cover securely.

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Figure 2: The back of the VD88 tester, indicating the location for two AAA 1.5V batteries.

2.2 Panel Introduction

Familiarize yourself with the various parts and controls of the VD88 tester:

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Conducted wire

Hold one end of a dead wire with one hand. Tip the other end of the wire and press "On-Off Test".

✘ Damaged wires, buzzer doesn't go off

✔ Conducted, it shows - - -))



Figure 3: A detailed diagram highlighting the different components and controls of the VD808 Digital Socket Tester.

1. **Test Nib:** Used for voltage and positive test point measurements.
2. **Flashlight:** Provides illumination in dark areas.
3. **VA Reverse Screen:** Digital display for readings.
4. **AC Voltage / 1.5V/9V Battery / On/Off / Electric Field-Sensitive Finger Contact Points:** Multi-functional area for various tests and controls.
5. **Switch Button (SEL):** Short press to switch functions. The device features automatic shutdown after 5 minutes of no operation.
6. **Leakage Switch Test Button (RCD):** Initiates the Residual Current Device (RCD) trip test.
7. **Socket Protective Cover:** Protects the socket test probes.
8. **On-Off Test Button:** Used for continuity testing.
9. **Hold Button (H):** Long press to turn the flashlight on/off; short press to hold data on the display.

3. OPERATING INSTRUCTIONS

3.1 DC Voltage Measurement

To measure DC voltage (e.g., from batteries):

1. Ensure the device is powered on.
2. Touch the test nib (1) to the positive terminal of the battery.
3. Place your finger on the electric field-sensitive contact point (4) to complete the circuit.
4. Read the DC voltage value displayed on the VA Reverse Screen (3).



Figure 4: Illustrates how to measure DC voltage using the tester's probe on various battery types.

3.2 AC Voltage Detection (NCV)

The VD808 can detect AC voltage without direct contact:

1. Hold the device near an AC voltage source (e.g., a live wire, circuit breaker).
2. The device will emit an audible alarm ('di di') and display a reading on the screen, with the alarm becoming more urgent as it gets closer to the power supply.

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Line breakpoint quick search

The signal is strong and the line is smooth, but the weak signal is Disconnected position.



Figure 5: The VD808 tester detecting AC voltage without direct contact, indicated by an alarm sound and display.

3.3 Socket Detection

To test the wiring of a socket (rated AC 220V-250V):

1. Plug the VD808 tester into the socket.
2. Observe the indicators on the device's display. Compare the displayed pattern with the table below to identify the socket's wiring status.



Socket detection

Plug into the socket and compare the parameter table according to the situation

	Correct (display normal)
	Missing ground wire (ground wire flashing)
	Missing zero line (zero line flashing)
	The phase and zero lines are reversed. (Phase line and zero line flash at the same time)
	Phase and ground inversion (The phase line and the ground line flash at the same time)
	Missing phase line (all flashing)
	Misplaced and missing (The phase line and the ground line flash alternately)



Figure 6: Visual guide to interpreting the VD808's display for various socket wiring conditions, including correct, missing ground, missing neutral, and reversed polarity.

Socket Wiring Indication Table

Indication	Wiring Status
Display Normal	Correct Wiring
Ground Wire Flashing	Missing Ground Wire
Zero Line Flashing	Missing Neutral Line
Phase Line and Zero Line Reversed	Phase and Neutral Lines are Reversed
Phase Line and Ground Line Flashing	Phase and Ground Inversion
All Flashing	Missing Phase Line
Phase Line and Ground Line Flash Alternately	Misplaced and Missing Wiring

3.4 Conducted Wire Test (Continuity)

To test the continuity of a wire:

1. Hold one end of the wire with one hand.
2. Touch the test nib (1) to the other end of the wire.
3. Press the 'On-Off Test' button (8).
4. If the wire is conducted, the device will show '----))' and emit a 'di' sound. If the wire is damaged, no sound will be emitted.



Figure 7: Demonstrates the process of testing wire continuity using the VD808, indicating a 'di' sound for a conducted wire.

3.5 Leakage Trip Detection (RCD Test)

To test the functionality of a Residual Current Device (RCD) or leakage protection:

1. Plug the VD808 into a socket protected by an RCD.
2. Press the 'Leakage Switch Test' button (RCD) (6).
3. A functional RCD should trip, cutting off power to the socket. If the RCD does not trip, it may be faulty and requires inspection by a qualified electrician.

3.6 Line Breakpoint Quick Search

To locate a breakpoint in a cable:

1. Hold the device along the length of the cable.
2. The device will indicate the presence of a signal. The signal will be strong where the line is continuous and smooth.
3. A weak or absent signal indicates a disconnected position or breakpoint in the cable.

ANENG® Voltage detection

The closer you are to the power supply, the more urgent the alarm will be



Figure 8: Shows the VD808 being used to locate a breakpoint in an electrical cable by sensing signal strength.

3.7 Data Hold Function

To hold the current reading on the display:

- During a measurement, short press the 'Hold' button (H) (9). The reading will be frozen on the screen.
- Short press the 'Hold' button (H) again to release the data hold function.

3.8 Flashlight Function

To use the built-in flashlight:

- Long press the 'Hold' button (H) (9) to turn the flashlight on.
- Long press the 'Hold' button (H) (9) again to turn the flashlight off.

4. SPECIFICATIONS

Parameter	Value
AC Voltage Measurement Range	2-440V

Parameter	Value
AC Voltage Frequency	50~60Hz
AC Voltage Accuracy	(6%+10)
Rated Current (Leakage Trip)	I Δ n=30mA
Socket Rated Voltage	AC 220V-250V
DC Voltage Measurement Range	1.5V~30V
Battery Type	AAA 1.5V battery * 2 (Not Included)
Automatic Shutdown	5 minutes of no operation
Manufacturer	GOLDEN BLUE
Part Number	20250423004

5. MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings. Always use new AAA 1.5V batteries.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Inspection:** Regularly inspect the test nib and casing for any signs of damage. Do not use the device if it appears damaged.

6. TROUBLESHOOTING

- **Device does not power on:** Check if batteries are installed correctly with correct polarity. Replace batteries if they are depleted.
- **Inaccurate readings:** Ensure the test nib and contact points are clean. Replace batteries if they are low. Ensure proper contact during measurement.
- **RCD test does not trip:** Verify that the socket is indeed protected by an RCD. If it is, the RCD itself may be faulty and should be inspected by a qualified electrician.
- **No NCV detection:** Ensure the device is held close enough to the AC voltage source. Check battery level.

7. SAFETY INFORMATION

Please read and understand all safety warnings and operating instructions before using this device. Failure to do so may result in electric shock, fire, or serious injury.

- Always exercise caution when working with electricity.
- Do not use the device if it appears damaged or is not functioning properly.
- Do not exceed the maximum rated voltage of 440V AC.
- Do not attempt to open or modify the device. There are no user-serviceable parts inside.
- Keep the device away from children.

- Ensure your hands are dry when operating the device.
- Always follow local electrical safety codes and regulations.

8. WARRANTY AND SUPPORT

Specific warranty information for the GOLDEN BLUE VD808 Digital Socket Tester is not provided in this manual. For warranty details, technical support, or service inquiries, please refer to the product packaging or contact the retailer or manufacturer directly.