

User Manual

DIGI-SENSE™ Receptacle Testers

Model 20250-61 (Circuit Tester)

Model 20250-62 (GFCI Tester)



20250-61



20250-62



THE STANDARD IN PRECISION MEASUREMENT

Introduction

The Digi-Sense Circuit Tester (Model 20250-61) and GFCI Tester (Model 20250-62) are easy to use. These receptacle testers detect nearly all common improper wiring conditions for 110 to 125 VAC outlets. These instruments comply with UL 61010-01, CAT. II 125 V, and pollution 2. Careful use of these meters will provide years of reliable service.

Safety Precautions

Note: For use on 110 and 125 VAC receptacles only.

- Always refer to this manual for correct use. Incorrect use may result in damage to the device or its components.
- All appliances or equipment on the circuit to be tested should be unplugged to help avoid erroneous reading.
- This tester is not a comprehensive diagnostic instrument, but a simple instrument to detect nearly all probable common improper wiring conditions.
- Refer all indicated problems to a qualified electrician.
- Tester will not indicate quality of ground.
- Tester will not detect 2 hot wires in a circuit.
- Tester will not detect a combination of defects.
- Tester will not indicate reversal of grounded and grounded conductor.

Safety Notes

- Measurement Category II is for measurements performed on circuits directly connected to the low voltage installation.
- Testers conform to UL STD.61010-1.
- Testers are protected throughout by double insulation.

Unpacking

Check individual parts against the list of items below. If anything is missing or damaged, please contact your instrument supplier immediately.

1. Tester
2. User manual

Circuit Tester Description (Model 20250-61)

1. Plug blades

2. Fault indicator table

3. Indicator lights



GFCI Tester Description (Model 20250-62)

1. Plug blades

2. Test button

3. Receptacle power indicator

4. Fault indicator table

5. Indicator lights



Setup and Operation

Circuit Tester (Model 20250-61)

Note: For use on 110 to 125 VAC receptacles only.

1. Make sure the receptacle to be tested was installed in accordance with the manufacturer's specifications.
2. Check for correct wiring of the receptacle and all remotely connected receptacles on the branch circuit by plugging the tester into each receptacle.
3. Plug the tester in the receptacle you wish to test.
4. Compare the LED lights on the tester to the fault indicator table.

Caution: The tester may not indicate properly when plugged into a 2-wire (non-grounded) receptacle.

GFCI Tester (Model 20250-62)

Note: For use on 110 to 125 VAC receptacles only.

1. Make sure the GFCI receptacle to be tested was installed in accordance with the manufacturer's specifications.
2. Check for correct wiring of the GFCI receptacle and all remotely connected receptacles on the branch circuit by plugging the tester into each receptacle.
3. Press the test button on the GFCI receptacle and verify it trips. If it does not trip, then do not use the tester, do not use the receptacle, and consult an electrician.
4. If the GFCI receptacle does trip when the test button is pressed, reset the receptacle and plug in the tester.
5. Compare the LED lights on the tester to the fault indicator table.

6. Press the test button on the tester for a minimum of 6 seconds, the indicator lights on the tester should go off when the GFCI receptacle trips.
7. If the tester does not trip the GFCI receptacle, either the GFCI receptacle is defective or it is wired improperly, consult an electrician.

Caution: When testing a GFCI receptacle installed in a 2-wire (non-grounded) system, the tester may indicate a faulty GFCI receptacle. If this happens, press the test and reset buttons on the GFCI receptacle to verify operation.

Fault Indicator Table

Indicator	Fault	Reason for wiring fault
○ ● ○	Open ground	Ground contact not connected
○ ○ ●	Open neutral	Neutral contact not connected
○ ○ ○	Open hot	Hot contact not connected
● ○ ●	Hot/ground reversed	Hot and ground contacts interchanged
● ● ○	Hot/neutral reversed	Hot and neutral contacts interchanged
○ ● ●	Correct wiring	Receptacle is wired correctly

Specifications

Voltage range	100 to 125 VAC
Altitude	<2000 m
Operating conditions	32 to 104°F (0 to 40°C), <80% RH
Storage conditions	14 to 122°F (-10 to 50°C), <70% RH



For Product and Ordering Information, Contact:



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