

SPERRY INSTRUMENTS VC61000 Volt Check Voltage and Continuity Tester



SPERRY INSTRUMENTS VC61000 Volt Check Voltage and Continuity Tester Instruction Manual

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SPERRY®
INSTRUMENTS

SPERRY INSTRUMENTS VC61000 Volt Check Voltage and Continuity Tester



Specifications

- DC Voltage: Contact
- AC Voltage: Non-Contact
- AC Voltage Frequency
- Operation Environment
- Storage Temperature
- Accuracy
- Batteries
- CAT IV 600V / CAT III 1000V

Product Usage Instructions

Safety Information Read the operator's manual thoroughly before using the tester. Follow all safety precautions and instructions provided in the manual. Avoid using the tester if you are unfamiliar with electrical circuits and testing procedures.

Operating Suggestions

1. Avoid placing the meter in areas with vibration, dust, or dirt. Store it away from excessive heat, humidity, or dampness.
2. Do not expose the meter to high magnetic fields as it may affect readings.
3. Avoid immersing the meter in water or solvents. Clean the housing with a damp cloth and mild soap.
4. The meter is designed for voltage level checks and continuity testing only.

Automatic Operation When using the test leads, the tester will automatically activate when connected to AC or DC voltage, or when continuity is made. The tester will select the appropriate function automatically.

Frequently Asked Questions

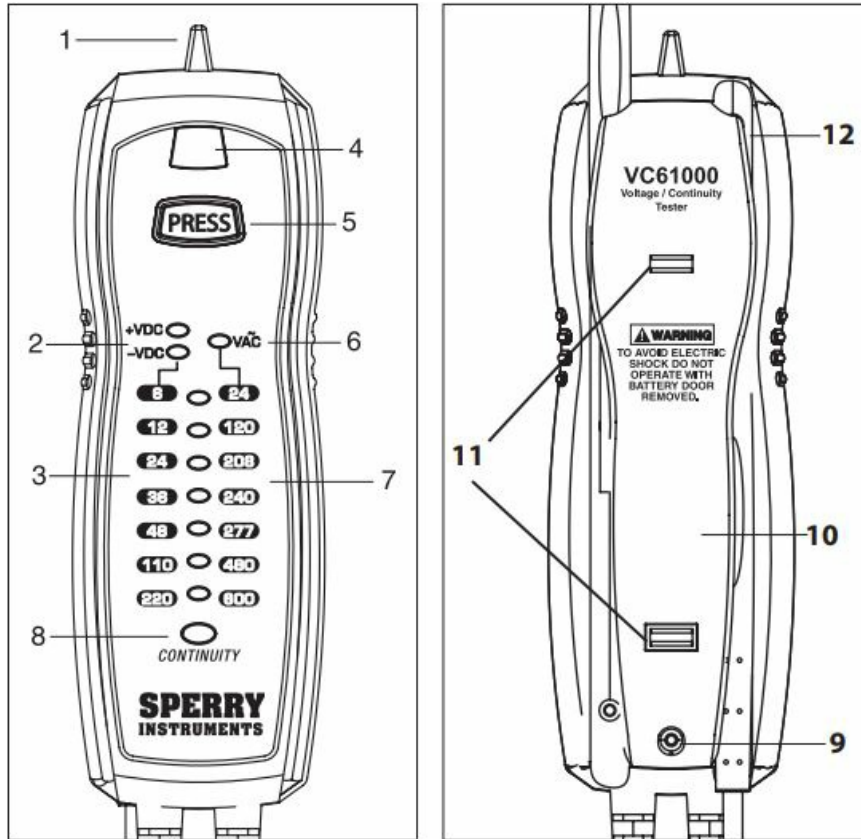
Q: What should I do if I encounter high magnetic fields while using the tester? A: Avoid using the tester in

areas with high magnetic fields as it may lead to inaccurate readings. Move to a different location for testing.

Q: How should I clean the meter's housing?A: Use a damp cloth with a minimal amount of mild soap to clean the housing. Do not immerse the meter in water or solvents.

Q: Can this meter be used for functions other than voltage level checks and continuity testing?A: No, this meter is specifically designed for checking voltage levels and continuity. Other test functions are not supported.

METER FUNCTIONS



1. Non-contact AC sensor
2. DC Polarity Indicators
3. DC Voltage Scale
4. Non-contact AC Indicator
5. Non-contact AC Button
6. AC Voltage Indicator
7. AC Voltage Scale
8. Continuity Indicator
9. Battery Compartment Screw
10. Battery Compartment
11. Magnets
12. Test Probe Storage Area

Instructions

Read First: Important Safety Information

Read this operators manual thoroughly before using this tester. This manual is intended to provide basic information regarding this tester and to describe common test procedures which can be made with this unit. Many types of appliance, machinery and other electrical circuit measurements are not addressed in this manual and should be handled by experienced service technicians.

WARNING

Use extreme caution when using this tester. Improper use of this tester can result in severe damage to property, severe personal injury or death. Follow all instructions and suggestions in this operators manual as well as observing normal electrical safety precautions. Do not use this tester if you are unfamiliar with electrical circuits and proper test procedures.

SAFETY WARNINGS

This instrument has been designed, manufactured and tested according to IEC61010: Safety requirements for Electronic Measuring apparatus, and delivered in the best condition after passing inspection. This instruction manual contains warnings and safety rules which must be observed by the user to ensure safe operation of the instrument and retain it in safe condition. Therefore, read through these operating instructions before using the instrument.

- Read through and understand the instructions contained in this manual before using the instrument.

WARNING

Keep the manual at hand to enable quick reference whenever necessary

- The instrument is to be used only in its intended applications.
- Understand and follow all the safety instructions contained in the manual.
- It is essential that the above instructions are adhered to.
- Failure to follow the above instructions may cause injury, instrument damage and/or damage to equipment under test.

DANGER is reserved for conditions and actions that can cause serious or fatal injury.

CAUTION is reserved for conditions and actions that can cause injury or instrument damage.

DANGER Never make measurement on a circuit in which voltage over AC 600 V exists

- Do not attempt to make measurement in the presence of flammable gasses.
- Otherwise, the use of the instrument may cause sparking, which can lead to an explosion.

WARNING Never attempt to use the instrument if its surface or your hand is wet.

- Never open the battery cover during a measurement.
- The instrument is to be used only in its intended applications or conditions. Otherwise, safety functions equipped with the instrument don't work, and instrument damage or serious personal injury may be caused.
- Never attempt to make measurement if any abnormal conditions, such as broken case and exposed metal parts are found on the instrument.
- Do not install substitute parts or make any modification to the instrument. For repair or re-calibration, return the instrument to your local distributor from where it was purchased.
- Verify proper operation on a known source before use or taking action as a result of the indication of the instrument.

CAUTION

Use appropriate personal protective equipment such as insulating gloves, insulating boots, and safety glasses.

- Set the function switch to an appropriate position before starting measurement.
- Do not expose the instrument to the direct sun, high temperature and humidity or dewfall.
- Altitude 2000m or less. Appropriate operating temperature is within 0 °C and 32 °C.
- This instrument isn't dust and water proofed. Keep away from dust and water.

- When the instrument will not be in use for a long period, place it in storage after removing the battery.
- Cleaning: Use a cloth dipped in water or neutral detergent for cleaning the instrument. Do not use abrasives or solvents otherwise instrument may get damaged, deformed or discolored.

SPECIFICATIONS

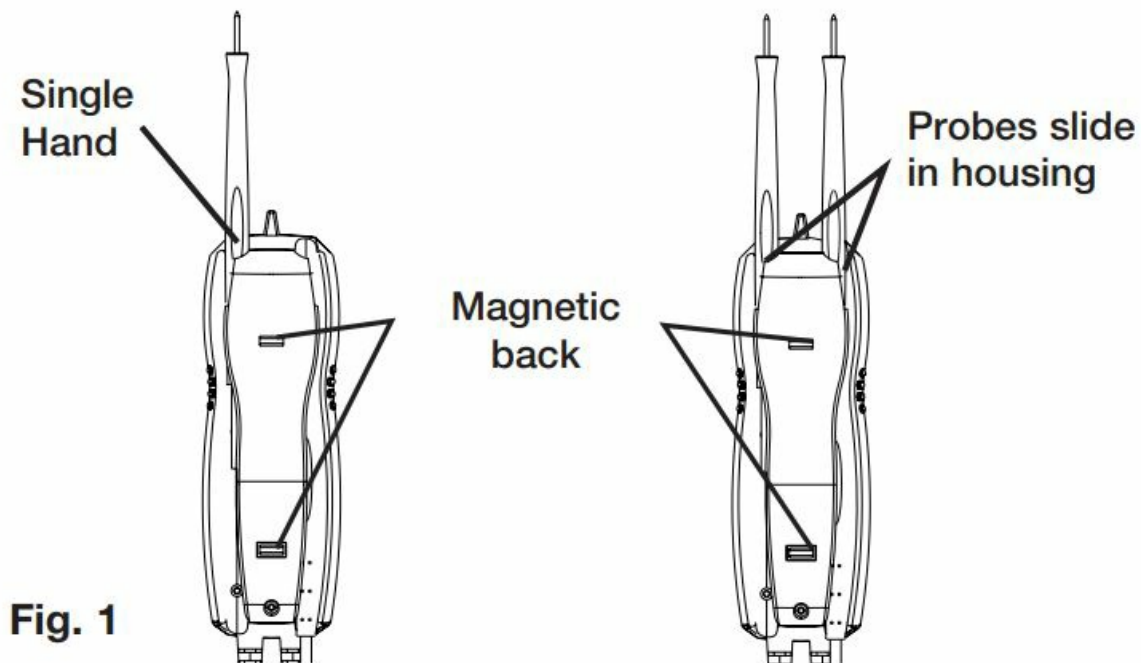
DC Voltage:	6–220 Volts
Contact AC Voltage:	24–600 Volts
Non-Contact AC Voltage:	50–600 Volts
AC Voltage Frequency:	50–60 Hz
Operation Environment:	32°F–104°F (0°C–40°C), 80% RH Max. 50% RH above 31°C
Storage Temperature:	14°F–140°F (-10°C–60°C)
Accuracy:	LED's illuminate at -16% of displayed value
Batteries:	(3) three AAA
CAT IV 600 V / CAT III 1000 V	

Operating Suggestions

1. Avoid placing the meter in areas where vibration, dust or dirt are present. Do not store the meter in excessively hot, humid or damp places. This meter is a sensitive measuring device and should be treated with the same regard as other electrical and electronic devices. This tool is designed to check for voltage levels and to determine continuity. No other test functions can be performed.
2. Using the meter in areas with high magnetic fields can result in inaccurate readings.
3. Never immerse the meter in water or solvents. To clean the housing use a damp cloth with a minimal amount of mild soap.
4. This meter is designed with probe holders and magnets to allow for maximum versatility and single hand testing.

Refer to the drawings in Fig. 1 for common setups

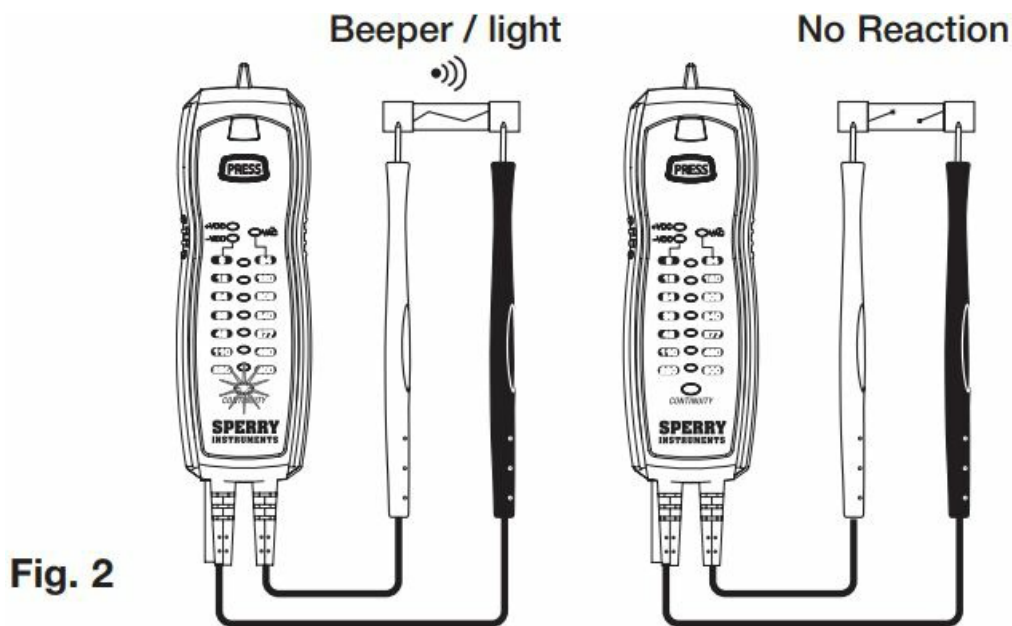
Automatic Operation



When using the test leads, the tester will automatically activate when connected to AC or DC voltage, or when continuity is made. The tester will automatically select the proper function.

Testing Continuity

Touch the tip of the test leads to the points where tests need to be made. If the resistance is below 2.1M ohms, the beeper will sound and the continuity light will illuminate. Fig. 2



Measuring DC Voltage Levels

- Measure the voltage by touching the test lead tips to the circuit where the value of voltage is expected. If the red test lead is on the positive contact the +VDC light will illuminate.
- If the red test lead is on the negative contact the -VDC light will illuminate. Fig. 3
- Read the voltage level from the DC voltage scale.

Measuring AC Voltage Levels

- Measure the voltage by touching the test lead tips to the circuit where the value of voltage is needed. The VA~ C light will illuminate to indicate AC Voltage. Fig. 4
- Read the level from the AC voltage scale. The polarity of the leads does not matter for AC voltage

measurements.

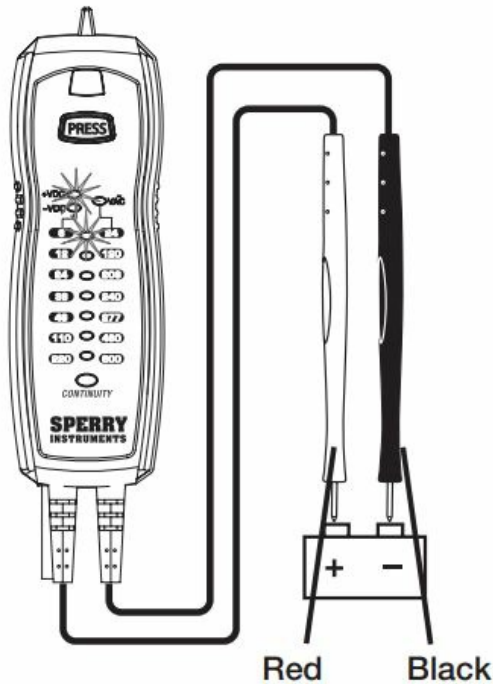


Fig. 3

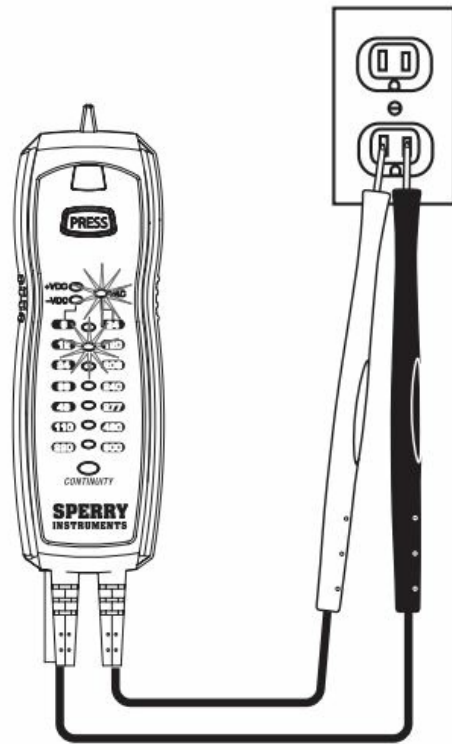


Fig. 4

Non-contact AC Voltage Detector

Depress the non-contact AC voltage button. The speaker will chirp once if the batteries are good. If the speaker does not chirp, replace the batteries and retest before use. Fig. 5

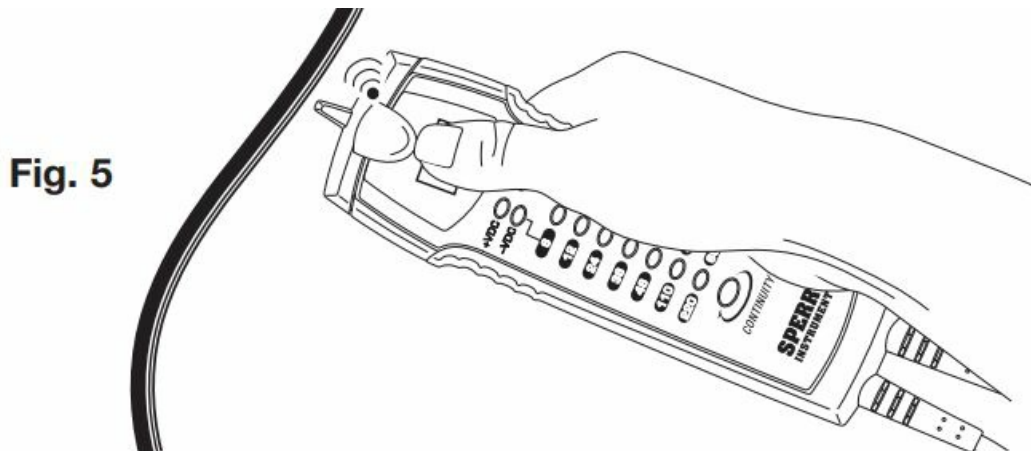


Fig. 5

WARNING Do not place hand past button.

To use, press button and place sensing tip on or near wire or device. If AC voltage greater than 50 V AC is present, light will glow and speaker will continuously chirp

Changing the Batteries

Do not open tester case while using the tester.

1. When the battery voltage drops below proper operating range, the tester will no longer function.
 2. Open the back cover by removing the screw. Slide the cover down and replace old batteries with three new AAA size batteries.
 3. Close the back cover and fasten the screw.
- (Refer to 1.0, Meter Functions)

Documents / Resources



[SPERRY INSTRUMENTS VC61000 Volt Check Voltage and Continuity Tester](#) [pdf] Instruction Manual

VC61000, VC61000 Volt Check Voltage and Continuity Tester, Volt Check Voltage and Continuity Tester, Voltage and Continuity Tester, Continuity Tester, Tester

References

- [User Manual](#)

[Manuals+](#). [Privacy Policy](#)

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