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SPERRY ET6102

Sperry Instruments ET6102 Voltage Tester User Manual

1. INTRODUCTION

The Sperry Instruments ET6102 is a single-range voltage tester designed to detect voltages from 80 to 250 V AC/DC. Its compact, ergonomic design features patented snap-in leads for convenient, hands-free testing in standard outlets, and provides clear Hi-Vis voltage indication. This manual provides essential information for the safe and effective use of your ET6102 Voltage Tester.





Figure 1: Sperry Instruments ET6102 Voltage Tester

This image shows the Sperry Instruments ET6102 Voltage Tester, a yellow and black device with two metal probes extending from the top. The voltage range '80-250V' is visible on the front, along with the 'SPERRY' brand logo.

2. SAFETY INFORMATION

WARNING: Always exercise extreme caution when working with electricity. Failure to follow safety guidelines can result in serious injury or death.

- Always assume a circuit is live until it has been tested and confirmed de-energized.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Do not use the tester if it appears damaged or if the leads are frayed or broken.
- Do not use the tester in wet conditions or if your hands are wet.
- Verify the tester's operation on a known live circuit before and after use.
- This tester is designed for 80-250 V AC/DC. Do not use it for voltages outside this range.

3. KEY FEATURES

- **Voltage Range:** Tests for 80-250 V AC/DC.
- **Hands-Free Testing:** Patented snap-in leads are spaced to fit standard 120V outlets.
- **Compact Design:** Ergonomic and easy to carry.
- **Hi-Vis Indication:** Clear visual indication of voltage presence.
- **Battery-Free Operation:** No batteries are required for functionality.

4. SETUP

The Sperry Instruments ET6102 Voltage Tester requires minimal setup before use.

1. **Unpack:** Remove the tester from its packaging.
2. **Inspect:** Visually inspect the tester for any signs of damage, such as cracks in the casing or frayed leads. Do not use if damaged.
3. **Probe Configuration:** The probes can be used in two configurations:
 - **Snap-in for Outlets:** For standard 120V outlets, the probes are designed to snap into the side of the tester body, maintaining the correct spacing for hands-free insertion into an outlet.
 - **Extended for Wires/Terminals:** For testing individual wires or terminals, gently pull the probes out from their snap-in positions to extend the leads.

5. OPERATING INSTRUCTIONS

Follow these steps to safely and accurately test for voltage:

1. **Verify Tester Functionality:** Before each use, test the ET6102 on a known live circuit (e.g., a working wall outlet) to ensure it is functioning correctly. The indicator light should illuminate.
2. **Testing Wall Outlets:**
 - Ensure the probes are snapped into the side of the tester body.
 - Carefully insert both probes into the slots of the wall outlet.
 - Observe the indicator light on the tester. If voltage is present within the 80-250V range, the light will illuminate.
3. **Testing Wires or Terminals:**
 - Gently pull the probes out from their snap-in positions to extend the leads.
 - Carefully touch one probe to the conductor (wire or terminal) you wish to test.
 - Touch the other probe to a known neutral or ground point.
 - Observe the indicator light. Illumination indicates voltage presence.
4. **Interpreting Results:**
 - **Light ON:** Voltage is present (80-250 V AC/DC).
 - **Light OFF:** No voltage is detected within the tester's range. This does not guarantee the circuit is completely de-energized; always follow Lockout/Tagout procedures if applicable.
5. **Post-Use Verification:** After testing, re-verify the tester's operation on a known live circuit to confirm it is still working correctly.



Figure 2: ET6102 Testing a Wall Outlet

This image shows a hand inserting the Sperry Instruments ET6102 Voltage Tester into a standard wall outlet. The tester's probes are

snapped into its body, allowing for easy, hands-free testing.

6. MAINTENANCE

Proper care ensures the longevity and reliability of your voltage tester.

- **Cleaning:** Wipe the tester with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a dry, cool place, away from direct sunlight and extreme temperatures. Ensure probes are securely stored in their snap-in positions to prevent damage.
- **Inspection:** Regularly inspect the leads and probes for any signs of wear, cuts, or damage. Replace the tester if any damage is observed.

7. TROUBLESHOOTING

If your ET6102 Voltage Tester is not functioning as expected, consider the following:

Problem	Possible Cause	Solution
Indicator light does not illuminate on a known live circuit.	<ul style="list-style-type: none">• Poor contact with the circuit.• Voltage is outside the 80-250V range.• Tester is faulty.	<ul style="list-style-type: none">• Ensure firm and proper contact with the circuit.• Confirm the voltage is within the tester's specified range.• If the problem persists after verifying contact and voltage, the tester may be faulty and should be replaced.
Indicator light is dim or flickers.	<ul style="list-style-type: none">• Intermittent contact.• Low voltage (near 80V threshold).	<ul style="list-style-type: none">• Ensure stable and firm contact.• The circuit may have fluctuating or low voltage.

8. SPECIFICATIONS

- **Brand:** SPERRY
- **Model:** ET6102
- **Voltage Range:** 80-250 V AC/DC
- **Power Source:** Not applicable (battery-free)
- **Dimensions (L x W x H):** 6 x 3 x 2 inches
- **Item Weight:** 0.01 Ounces
- **Material:** Plastic
- **Certifications:** CE, FCC

9. WARRANTY AND SUPPORT

The Sperry Instruments ET6102 Voltage Tester comes with a manufacturer's warranty. For specific details regarding warranty coverage, duration, and claims, please refer to the documentation included with your purchase or visit the official Sperry Instruments website. For technical support or further assistance, please contact Sperry Instruments

customer service.