

**SPERRY®
INSTRUMENTS**

VD6505
NON-CONTACT
VOLTAGE
SENSOR



Sperry Instruments VD6505 Non-Contact Voltage Sensor Operating Instructions

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Sperry Instruments VD6505 Non-Contact Voltage Sensor



OPERATING INSTRUCTIONS

BEFORE USE:

READ ALL OPERATING INSTRUCTIONS BEFORE USE.

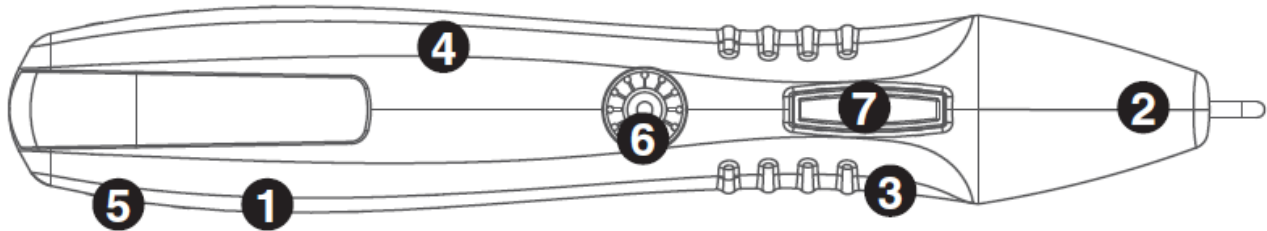
- Use extreme caution when checking electrical circuits to avoid injury due to electrical shock.
- Sperry Instruments assumes basic knowledge of electricity on the part of the user and is not responsible for any injury or damages due to improper use of this tester.
- OBSERVE and follow all standard industry safety rules and local electrical codes.
- When necessary call a qualified electrician to troubleshoot and repair the defective electrical circuit.

SPECIFICATIONS

- **Operating Range:** adjustable from 12-600 VAC, 50-60 Hz; CAT III 600V
- **Indicators:** Visual and Audible
- **Operating Environment:** 32° – 104° F (0 – 32° C) ; 80% RH max., 50% RH above 30° C
 - Altitude up to 2000 meters. Indoor use.
 - Pollution degree 2. By IED-664.
- **Cleaning:** Remove grease and grime with a clean, dry cloth.

PRODUCT OVERVIEW

1. Soft-grip, contoured design
2. Hi-Vis™ 360° indication
3. Loud beeping audible indication
4. Hi-impact ABS housing
5. Operates from a single AAA
6. Sensitivity dial
7. On-Off button



OPERATION

Before use test the battery by holding the button (#7) down on the top side of the tester. If the battery is good then the light will flash and the speaker will chirp momentarily. If indicators do not function then replace the battery. This unit operates from 1 AAA battery.

- **To test for voltage** –This unit has an adjustable dial on the top of the unit. To increase the sensitivity rotate the dial counterclockwise. Increasing the sensitivity increases the detection range of standard 120 VAC circuits. See Fig. 1 and Fig.2 – Place the sensor on or near the wire, device, or circuit to be tested. If an AC Voltage greater than the adjustable setting of 12-600 VAC is present the light will flash and the speaker will beep continuously.
- **Static Electricity** – The tester is subject to electrical static interference. If the LED or tone acts a single time, it is detecting the static electricity in the air. When detecting voltage, the LED and tone will activate repeatedly.

Fig.1



Fig.2








- **Static Electricity** – The tester is subject to electrical static interference. If the LED or tone acts a single time, it is detecting the static electricity in the air. When detecting voltage, the LED and tone will activate repeatedly.

FEATURES

- Safely finds AC voltage without touching live lines with non-contact voltage detection.
- It can pick up both low voltage (12–50V AC) and normal voltage (50–1000V AC).

- **Audible Alert:** Makes a noise when voltage is noticed so you know right away.
- An LED light flashes brightly when electricity is present, making it easy to see that the circuit is working.
- It has an ergonomic design that makes it comfy to use and light so it's easy to carry.
- **Compact Size:** It's small and easy to carry around; it fits in your pocket or tool bag.
- **Durable Construction:** Made from tough materials that will last on the job site.
- **Auto Power Off:** To save battery life, it turns off by itself when not in use.
- **Battery Powered:** Two AAA batteries are needed for long-lasting use.
- **Wide Detection Range:** It can pick up voltages between 50V and 1000V AC, which is enough for most electrical tasks.
- **Safety grade:** This product has a CAT IV 1000V safety grade and can be used in industrial, commercial, and residential settings.
- **Bright LED Tip:** When voltage is identified, the sensor tip glows, making it easier to see in dark places.
- **Not Touching Metal:** This feature keeps people from touching live lines, which lowers the risk of getting an electric shock.
- **Easy to Use:** It's easy for people of all skill levels to use because it only has one button.
- **Pocket Clip:** It comes with a clip that makes it easy to store in bags or on tool belts.
- The Low Battery Indicator lets you know when the battery is getting low so that the device always works at its best.
- **Wide Temperature Range:** It works well in ranges ranging from -4°F to 140°F.
- **High Sensitivity:** Finds live lines quickly and correctly, even through insulation.
- **Safe to Use at Home:** Great for checking home wiring, outlets, light fixtures, and circuit switches.



-  **CAUTION** – REFER TO THIS MANUAL BEFORE USING THIS TESTER.
-  **Double Insulation:** The tester is protected throughout by double insulation or reinforced insulation.
-  **Warning** – This product does not sense potentially hazardous voltages below 50 volts. Do not use outside of the marked/rated ranges indicated.
-  **Warning** – To ensure the unit is operating properly, always test on a known live circuit before use.
-  **Warning** – This tester will not detect voltage in wires that are electrically shielded by metal conduit or grounded electrical enclosures
- Do not place your hand past the LED window.

Warranty

Limited Lifetime Warranty limited solely to repair or replacement; no warranty of merchantability or fitness for a particular purpose. The product is warranted to be free of defects in materials and workmanship for the normal life of the product. In no event, Sperry Instruments be liable for incidental or consequential damage.

Milwaukee, WI

SPR_TL_059_0616_VD6505

Made in China

FREQUENTLY ASKED QUESTIONS

What is the primary function of the Sperry Instruments VD6505 Non-Contact Voltage Sensor?

The Sperry Instruments VD6505 Non-Contact Voltage Sensor is designed to detect the presence of AC voltage without direct contact with live electrical conductors.

What voltage range can the Sperry Instruments VD6505 detect?

The Sperry Instruments VD6505 can detect AC voltage from 12V to 1000V.

How does the sensitivity adjustment feature work on the Sperry Instruments VD6505?

The Sperry Instruments VD6505 allows users to adjust sensitivity levels, making it suitable for applications with multiple wires where precision is crucial.

What types of indicators does the Sperry Instruments VD6505 provide when voltage is detected?

The Sperry Instruments VD6505 provides both audible beeping and a 360-degree visual flashing red light to indicate the presence of voltage.

What safety features are included in the Sperry Instruments VD6505?

The Sperry Instruments VD6505 features a fully insulated probe tip to prevent accidental contact with live wires and includes a patented battery self-test feature to ensure proper operation.

What is the construction material of the Sperry Instruments VD6505?

The Sperry Instruments VD6505 is made from impact-resistant ABS housing with a protective rubber overmold, designed to withstand tough worksite conditions.

How is the Sperry Instruments VD6505 powered?

The Sperry Instruments VD6505 operates on a single AAA battery, which is included with the product.

What is the weight and size of the Sperry Instruments VD6505?

The Sperry Instruments VD6505 weighs approximately 0.01 ounces and has dimensions of 2 x 3 x 4.75 inches.

Is the Sperry Instruments VD6505 certified for safety standards?

Sperry Instruments VD6505 is C/ETL/UL Listed, CE Certified, and rated for CAT III 1000V / IV 600V.

Does the Sperry Instruments VD6505 come with a warranty?

The Sperry Instruments VD6505 includes a limited lifetime warranty, ensuring long-term reliability.

How does one perform a battery check on the Sperry Instruments VD6505?

Users can perform a battery check on the Sperry Instruments VD6505 by pressing a designated button that indicates whether the tester and batteries are functioning properly.

What makes the design of the Sperry Instruments VD6505 user-friendly?

The soft-grip contoured design of the Sperry Instruments VD6505 enhances comfort during extended use, while its pocket clip allows for easy portability.

What should I do if my Sperry Instruments VD6505 Non-Contact Voltage Sensor does not beep when near a live wire?

If your Sperry Instruments VD6505 is not beeping near a live wire, check the battery to ensure it is properly installed and has sufficient charge. Replace the AAA battery if necessary.

How can I adjust the sensitivity on the Sperry Instruments VD6505 for better detection?

The Sperry Instruments VD6505 features an adjustable sensitivity dial. Turn the dial to increase sensitivity for detecting voltage in crowded wire environments or decrease it for more precise readings.

What could cause my Sperry Instruments VD6505 to give false readings?

False readings from the Sperry Instruments VD6505 can occur if the device is too far from the voltage source, if the battery is low, or if there are strong electromagnetic fields nearby. Ensure you are within range and check the battery.

DOWNLOAD THE PDF LINK: [Sperry Instruments VD6505 Non-Contact Voltage Sensor Operating Instructions](#)

References

- [User Manual](#)

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

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