

**EN**

Original Instructions  
Version 2 – June 2023

**DRAPER**<sup>®</sup>

# NON CONTACT **VOLTAGE TESTER**

**34278**



Read this manual in full before using this product and retain it for future use. Always use the latest version of the manual. Please visit [drapertools.com/manuals](http://drapertools.com/manuals) for the latest version.

## 1. Intended Use

This product is designed for detecting the presence of AC voltages in outlets, switches, cables and small electrical components without contact with the circuit. It can also be used to locate breakages in electrical wiring.

Any other application will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

## 2. Specification

Stock No.	34278
Part No.	VS4
Detection capability	
Voltage	100–600V AC
Frequency	50, 60Hz
Power	2 x AAA batteries
Appliance standard	CAT III 1,000V*
Safe ambient operating temperature	-10 to 50°C
Max. ambient humidity	
0–30°C	95%
30–40°C	75%
40–50°C	45%

\*This product is designed to protect against transient overcurrent from equipment in fixed installations, such as installation panels, feeders, short branch circuits and lighting systems in large buildings.

### 3. Health and Safety Information

Read all the Health and Safety instructions before attempting to use this product. Non-compliance may result in serious injury or death.



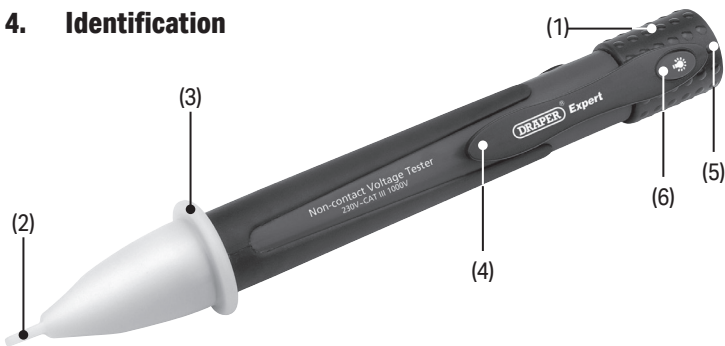
#### **WARNING!**

**Contact with live circuits can result in severe electrical shock.**

- **ONLY** trained and competent personnel may operate this device.
- Use this product **ONLY** as instructed in this manual.
- Observe all standard precautions and good practice when working with live electrical currents.
- Inspect the product for damage before every use, particularly the detector tip.
  - **DO NOT** use this product if it is damaged in any way or if there is evidence of battery leakage.
  - If battery acid comes into contact with your skin, wash it off immediately with plenty of clean water.
  - If battery acid comes into contact with your eyes, flush them with plenty of clean water and seek immediate medical attention.
- Ensure that the device is clean, dry and free from grease before use.
- Check that the detector is operating correctly before each use by testing a known voltage.
- **DO NOT** use this product if it exhibits abnormal behaviour and have it checked by a qualified and authorised technician before next use.
- **NEVER** use this product to test for the presence of voltages that may be greater than the rated capability of this device as it may expose you to a shock hazard.
- Assess any specific additional risks to the operator before each use.
- **ALWAYS** wear protective insulated gloves while using this product.
- Keep your fingers behind the guard at all times during use.
- **DO NOT** expose this product to ambient conditions exceeding the rated safe ranges.
- **DO NOT** use this this product around explosive gases, vapours or dust.
- **DO NOT** immerse this device in water or expose it to wet conditions.
- **DO NOT** abuse, mutilate or burn the battery.

- Remove the batteries when the product is stored for extended periods.
- **DO NOT** attempt to repair this device; it contains no user-serviceable parts.
- Keep this product out of reach of children.

#### 4. Identification



- |                 |                       |
|-----------------|-----------------------|
| 1. Battery cap  | 4. Pocket clip        |
| 2. Detector tip | 5. Torch              |
| 3. Guard        | 6. Torch power button |

#### 5. Installing the Batteries

This product requires two AAA batteries (supplied).

To install the batteries, lift the pocket clip (4) to release the the battery cover and insert the batteries according to the polarity marked on the side of the device. Replace the battery cap and tighten it securely.

**Important: DO NOT** mix old and new batteries.

#### 6. Operation

**Important:** Test the device on a known voltage before **EVERY** use. If the device does not respond as expected, replace the batteries and/or test on another known voltage. If it continues to operate abnormally, have the unit replaced or repaired. **DO NOT** continue to use the device.

When the device detects a voltage at 100–600V AC (50/60Hz), the detector tip (2) flashes and an audible “beep” is heard.

**Important:** Maintain a firm and comfortable grip to ensure maximum sensitivity of the tool.

To test for AC voltage in an outlet, switch, cable or other component, position the detector tip into the socket or in close proximity to the component.

To locate a break in a live conductor, trace the wire using the detector tip until the voltage is no longer detected. The point at which the device stops responding indicates the location of the break. To find a break in a neutral conductor, connect a load between live and neutral before tracing the wire.

**Important:** Lack of response from the device does **NOT** guarantee that a voltage is not present. Test the wiring from all sides as the live wire may be shielded from the detector by other conductors.

The following conditions may cause the device not to respond when a voltage is present:

- The cable is armoured or in conduit, or the insulation is too thick.
- The cable is concealed by panels or metallic enclosures.
- The voltage is DC.
- The device is positioned too far from the voltage.
- The voltage is less than 90V.
- The operator’s grip on the device is too loose.

To operate the torch (5), press the torch power button (6) once for “on” and again for “off”.

## 7. Product Care and Disposal

This product contains no user-serviceable parts. **DO NOT** attempt to repair or service this device. If the device is damaged or functioning incorrectly, contact Draper Tools for repair and replacement options.

Clean the product using a dry cloth **ONLY**.

 **CAUTION! DO NOT use solvents or other aggressive materials as they may damage plastic or insulated parts.**

Store this product in a cool, clean and dry environment, out of direct sunlight and out of reach of children.

**Important:** Remove the batteries from the device before storing it for extended periods.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.
- **DO NOT** burn or mutilate batteries; this may release toxic or corrosive substances.
- Dispose of batteries separately and in accordance with local regulations.



## 8. Warranty

Should the tool develop a fault, return the complete tool to your nearest distributor or contact Draper Tools directly. Proof of purchase must be provided.

If, upon inspection, it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty covers parts and labour for 12 months from the date of purchase. However, if the tools are hired out, the warranty period is 90 days from the date of purchase.

This warranty does not apply to any consumable parts, batteries or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper Tools repair agent.

Visit [drapertools.com/warranty](http://drapertools.com/warranty) for full details.

## 9. Symbols



Read the instruction manual



**Warning!**



Do not incinerate or throw onto fire



Use on 50/60Hz voltages



Use on 100-600V voltages



Safe ambient operating temperatures



Transient over



Class II appliance



WEEE – Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



UK Conformity Assessed



European conformity

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