

ENGINEERED FOR



PROFESSIONALS™

24/90 1000V VOLTAGE DETECTOR

PART NO: TTIVP1000V
(..151479)



**TO PREVENT SERIOUS INJURY, READ
AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

**OPERATING
INSTRUCTIONS**

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INTRODUCTION

The TTIVP1000V voltage detector is a non-contact voltage detector with a built-in flashlight and visual and audio alarm. The CAT IV 1000V safety class ensure users' safety.

INTENDED USE

The voltage detector is to be used only for electrical inspection within the specifications the device is rated for. Failure to use the device within the specifications may result in serious injury or death.

GENERAL SAFETY

Prior to using voltage detector, please read the product manual and ensure you have a solid understanding of the machines functions and features.



CAUTION

Upon first use of the device, ensure the unit functions properly and you're familiar with all the functions.



WARNING

The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, this must be supplied by the operator.

SAFETY INSTRUCTIONS

SAFE OPERATION AND STANDARDS

Anyone using this instrument should be knowledgeable and trained about the risks involved with measuring voltage, especially in an industrial setting, and the importance of taking safety precautions and of testing the instrument before and after using it to ensure that it is in good working condition.

WARNING






Please carefully read and fully understand the warning and operating instruction before use. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Do not rely on the device to detect the presence or absence conductor for safety purposes. This device is not suitable to determine if a circuit is hazardous.

- Test the device on a known live source within the rated AC voltage range before and after use to ensure it's in good working.
- Do not use the device if it appears damaged or is not working properly.
- Do not attempt to detect voltage higher than 1000V.
- Use caution when working with voltage above AC 30V R.M.S, 42Vpeak or DC 60V. Such voltage poses a shock hazard.
- Clean the device with a damp cloth. Do not use abrasives or solvents.
- There may still be voltage present even when there's no visual or audio alarm on. The device indicates active voltage in the presence of AC electric fields of sufficient strength emanating from the conductor. If the field strength is low, the device may not provide indication of live voltages. Lack of an indication occurs if the device is unable to sense the presence of the electric field which may be influenced by several factors such, but not limited to shielded wires, type of insulation, distance from the voltage source, socket design condition of the device and batteries. If there are uncertainties, use other methods to verify the voltage.
- Do not assume neutral or ground wires are safe to touch. Incorrect or poorly connected circuits may cause wires to be electrically charged, causing injury or death.
- Replace the batteries when low battery indication appears to avoid false readings that can lead to electrical shock.
- Remove the alkaline batteries if the device is not used for an extended period of time, or if stored in temperatures above 50 °C. If the batteries are not removed, battery leakage may result.
- Hold the device behind the NCV sensor, see page 6 for more detail.
- Comply with local and national safety regulations and requirements. Use personal protective equipment such as approved rubber gloves, face protection, and flame-resistant clothing to prevent shock and arc blast injury where hazardous live conductors are exposed.
- The detector will not detect and voltage if:
 - a. The wire is shielded.
 - b. The operate is not connected with the ground or isolated from an effective ground.
 - c. The voltage is DC (Direct Current)

- The detector may not detect any voltage if:
 - a. The operator does not hold the detector.
 - b. The operator is wearing gloves.
 - c. The wire under test is partially buried or in a grounded metal conduit.
 - d. The magnetic field generate by the voltage source is blocked, suppressed or interfered with.
 - e. The frequency of the voltage being detected is not a perfect sine wave and may be distorted by harmonics.
 - f. The detector is used outside of the operating specifications (see technical specifications for details)

ELECTRICAL SYMBOLS

	Double insulation
	Warning
	AC (alternating current)
CAT IV	This tool is applicable to test and measure circuits connected at the source of the building low-voltage MAINS installations
	This symbol signifies product complies with Australian requirements
	Do not recycle

EXTERNAL OVERVIEW

1. NCV Sensor
2. Flashlight
3. Signal sensing LED
4. Mode status indicator (red/low, green/high)
5. Power button
6. Flashlight button
7. Pocket clip
8. End of the detector (slide off to install/remove battery)



TECHNICAL SPECIFICATIONS

AC Voltage range	90~1000V AV (red indicator) 24~1000V AV (green indicator)
Frequency Range	50Hz/60Hz
Alarm Mode	Audio/visual
Flashlight	White spotlight
Auto Power Off	Approximately 5min
Low Battery Indication	Yes
Safety Class	CAT IV
Operating Temperature	0°C~40°C
Storage Temperature	-20°C~50°C
Humidity	<80% (non condensing)
Altitude	<2000m
Battery	1.5V AAA x2
Product Size	150 x 18 x 23mm
Weight	50g (Approximately)
Standards	IEC 61010 AS/NZS CISPR 11

OPERATING INSTRUCTIONS

TURNING ON THE DETECTOR

Press of the power button to turn the device on. The buzzer will beep twice, and a red light will appear on the status indicator - the device is now ready for use. The default AC voltage detection range is 90-1000V.

TURNING ON/OFF FLASH LIGHT

Press the flashlight button to turn on/off the flashlight. The flashlight will automatically turn off when the detector is inactive for 5 minutes.

AC VOLTAGE DETECTION

Place the NCV sensor head near the test object. When AC voltage is detected, the red LED in the NCV sensor head will light up and the buzzer will beep. The buzzer and LED flash will increase in frequency when the detector gets close to the test object.

DETECTIONS RANGE SELECTION

- When the detector is on, the default mode is high voltage mode. With the detection range of 90-1000V. This is signified by the red light on the mode status indicator.
- Short press of the power button to enter into low voltage mode. The mode status indicator will be green, and the device will make a buzzing sound to indicate it's in low voltage mode. Low voltage detection range is 24-100V. In low voltage mode, the detector is more sensitive to electrical interference/noise. It is advised to only use low voltage mode during within a weak electrical environment.

AUTO POWER OFF

The voltage detector will auto power off when it is not used within 5 minutes.

TURNING OFF THE VOLTAGE DETECTOR MANUALLY

Press and hold the power button for 2 seconds to turn the device off. The device is off after a long beep.

LOW BATTERY INDICATION

When the battery voltage is lower than 2.4V, the indicator light will turn on. Replace with two AAA batteries.

BATTERY REPLACEMENT

Removing the end of the detector to replace batteries according to the correct polarity.

1 year
guarantee 

WARRANTY INFORMATION

This warranty is provided by Total Tools (Importing) Pty Ltd of 20 Thackray Road, Port Melbourne VIC 3207. Phone: 03 9261 1900 (we, us, our).

Express Warranty

Subject to the exclusions set out below, we warrant that this product will be free from defects in materials or workmanship for 12 months from the date of purchase.

The benefits conferred by this warranty are in addition to all rights and remedies which you may be entitled to under the Australian Consumer Law, and any other statutory rights you may have under other applicable laws. This warranty does not exclude, restrict or modify any such rights or remedies.

Warranty exclusions

This express warranty does not apply where a defect or other issue with the product is caused by normal wear and tear, misuse or abuse of the product.

Consumer guarantees

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty claims

To make a claim under this warranty, you must bring the product along with the proof of purchase and any other documentary evidence which you think is relevant to the Total Tools' place of purchase where the claim will be handled on our behalf. Any cost incurred by you in bringing the product to the place of purchase will be borne by you.

To make a claim under this warranty, the product and proof of purchase must be returned to the Total Tools place of purchase during the warranty period specified above.

If your warranty claim is accepted, we (or the Total Tools store that handles the claim on our behalf) will, at our discretion, repair or replace the product, or refund money to you and take back the product.