G9301-II
Voltage Detector User Manual

Preface
Thank you for purchasing the new voltage detector. In order to use this product safely and correctly, please read this manual thoroughly, especially the Warning part.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

Limited warranty and liability
GAZELLE guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of GAZELLE . If you need warranty service within the warranty period, please contact your seller directly.

GAZELLE will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by using this device. As some countries or regions do not allow limitations on implied warranties and incidental or subsequent damages, the above limitation of liability may not apply to you.

Overview
The G9301-II products are non-contact voltage detectors with built-in flashlight and acousto-optic synchronous alarm function. The CAT IV 1000V safety class ensures users' safety, making them essential tools for industry and home.

Low voltage mode (24V AC ~ 1000V AC)

Suitable for testing low-voltage motor (< 90V), audio systems, arc welding machines, underground mine lighting, cables with thick insulation layer, and other weak electromagnetic AC signals.

High voltage mode (90V AC ~ 1000V AC):

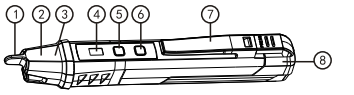
For detecting urban electric supply and three-phase systems. For example, power distribution units, electrical panels, electrical appliances.

⚠ Warning
1. Please carefully read and fully understand the warnings and operating instructions before use. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equi pment may be impaired.
2. Please test the detector on a known live source within the rated AC voltage range before use.
3. If the detector appears damaged or is not working properly, stop using it immediately.
4. Do not detect voltage higher than 1000V.
5. Use caution when working with voltages above AC 30Vr.m.s, 42Vpeak or DC 60V. Such voltages pose a shock hazard. Clean the tester casing with a damp cloth and mild detergent. Do not use abrasives or solvents!
6. There may still be voltage even when no acousto-optic alarm is on.
7. The insulation type, wire thickness, distance from voltage source, shielded wire, other wires, socket design, and other factors may adversely affect test result. If there are uncertainties, use other methods to verify the voltage.
8. Do not assume neutral or ground wire is safe to touch. Incorrect or poorly connected circuits may cause wires to be charged.
9. The magnetic field generated by magnetized components may
10. When low battery indication appears, please replace the batteries.
11. When using the detector, please only hold up to the line before the translucent sensing part and not over.
12. Comply with local and national safety regulations and requirements.
13. The detector will not detect any voltage if:
    - •The wire is shielded
    - •The operator is not connected with the ground or isolated from an effective ground
    - •The voltage is DC
14. The detector may not detect any voltage if:
    - •The operator does not hold the detector
    - •The operator is wearing gloves
    - •The wire under test is partially buried or in a grounded metal conduit
    - •The magnetic field generated by the voltage source is blocked, suppressed or interfered with
    - •The frequency of the voltage being detected is not a perfect sine wave and may be distorted by harmonics
    - •The detector is used outside of the operating specifications (see Technical Specifications for details)

Electrical Symbols

⧈	Protected throughout by Double insulation or Reinforced insulation
~	Alternating current
⚠	Caution, possibility of electric shock
⚠	Warning! Refer to the manual
CE	In compliance with the directive of European Union
CAT IV	It is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.

Panel Description



G9301-II

1	NCV sensor head	2	Flashlight lighting
3	sensing signal LED	4	Mode status indicator light
5	Power button	6	Flashlight button
7	Pocket clip	8	End of the detector

Operating Instructions
1. Turning on the detector

Short press the power button. The buzzer will beep twice and the red indicator light on the panel will light up, indicating that the detector is on and ready for use. The default AC voltage detection range is 90-1000V.

2. Turning on/off the flashlight

Flashlight on/off: Short press the flashlight button to turn on/off the flashlight.
The flashlight will automatically turn off when the detector is not used for 5 minutes.

Note: Please unplug other electrical devices on the socket before detection.

3. Detection range selection

a) When the detector is on, the default mode is high voltage mode, with detection range of 90-1000V. The red indicator light on the panel will light up.

b) Short press the power button once. The red indicator light will switch to green, and the device will switch to low voltage mode, with range of 24-1000V. In low voltage mode, the detector is more sensitive to electrical interference/noise. Please only use low voltage mode during weak electrical field environment.

4. Auto power off
The detector will auto power off when it is not used for 5 minutes.
5. Turning off the detector manually
Long press the power button for 2 seconds to turn off the detector

6. Low battery indication
When the battery voltage is lower than 2.4V, the detector will automatically shut down.

Battery Replacement



1. Hold the detector with one hand, use your thumb of the other hand to press down on the battery compartment latch, and pull the end of the detector.
2. Pull out the end of the detector along the direction shown at right pictures and replace the batteries.

⚠ **WARNING:**
Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc) batteries.

Technical Specifications

Items \ Models	G9301-II
AC voltage range	90 ~1000V AC (red indicator) 24 ~1000V AC (green indicator)
Frequency range	50Hz/60Hz
Alarm mode	Audio/visual
Flashlight	White spotlight
Auto power off	About 5 minutes
Low battery indication	√
Safety class	CAT IV 1000V
Operating temperature	0~40°C
Storage temperature	-20~50°C
Humidity	≤ 80% (non-condensing)
Altitude	< 2000m
Battery	2x1.5V AAA
Product size	150x18x23 (mm)
Weight	About 50g
Drop test	N/A

Standards: IEC/EN61010-1, IEC/EN 61010-2-030,
IEC/EN 61326-1, IEC/EN 61326-2-2