

Bosch GVD 1000-17

Bosch GVD 1000-17 Contactless Voltage Detector

User Manual

INTRODUCTION

Thank you for choosing the Bosch GVD 1000-17 Contactless Voltage Detector. This device is designed for safe and reliable detection of AC voltage in various electrical applications. Please read this manual thoroughly before use to ensure proper operation and to prevent potential hazards. Keep this manual for future reference.

SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always assume that electrical circuits are live until proven otherwise.
- Do not use the device if it appears damaged or is not functioning correctly.
- Ensure the device is clean and dry before use.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses, when working with electricity.
- The device is rated CAT IV 1000V. Do not exceed the specified voltage range.
- Perform a self-test before each use to confirm proper functionality.
- Keep children away from electrical work areas and the device.
- Do not rely solely on this device to determine if a circuit is de-energized. Always follow established lockout/tagout procedures.

PRODUCT OVERVIEW

The Bosch GVD 1000-17 is a robust, contactless voltage detector designed for professional use. It features a dual voltage detection range, an integrated flashlight, and a durable, IP67-rated housing.



Figure 1: Front view of the Bosch GVD 1000-17 Contactless Voltage Detector.

Key features include:

- **Double Voltage Detection:** Captures 24V to 1000V AC or 90V to 1000V for various applications.
- **Automatic Self-Test:** Performs a self-test every 5 seconds for reliable performance.
- **Robust Design:** IP67 certification guarantees protection against dust and water for demanding construction sites.
- **Increased Safety:** CAT IV 1000 V tested for safety in high-voltage systems.
- **Integrated Torch:** For illuminating dark work areas.
- **Belt Clip:** For convenient carrying and quick access.

DETECTOR DE TENSÃO SEM CONTATO GVD 1000-17

ATÉ **3 ANOS DE GARANTIA***

* Entenda como registrar a garantia adicional de 1 ano no app BeConnected disponível no [App Store](#) ou [Google Play](#)



 **BOSCH**

Figure 2: Feature overview of the Bosch GVD 1000-17.

The device provides triple feedback for voltage detection:

- **Sound:** An audible alert for situations where visual confirmation is difficult.
- **Vibration:** A tactile alert to guide the user in noisy environments.
- **LED Indicator:** Visual cues for voltage status:
 - Green: No voltage detected.
 - Orange: Low voltage detected (between 24V and 90V AC).
 - Red: Voltage detected.

COMPONENTS

The Bosch GVD 1000-17 includes the following main components:

- Detection Tip (NCV Sensor)
- LED Indicator Lights
- Power Button
- Mode/Sensitivity Button

- Flashlight Button
- Battery Compartment (at the rear)
- Belt Clip



Figure 3: Side view of the Bosch GVD 1000-17, highlighting its compact design and belt clip.

GETTING STARTED

Battery Installation

The Bosch GVD 1000-17 requires two 1.5 V LR03 (AAA) batteries for operation. These are typically included with the device.

1. Twist the battery cap at the rear of the device counter-clockwise to open the battery compartment.
2. Insert two AAA batteries, ensuring correct polarity (+ and - terminals match the markings inside the compartment).
3. Replace the battery cap by twisting it clockwise until securely fastened.



Figure 4: Rear view of the Bosch GVD 1000-17, showing the battery compartment.

OPERATING THE DEVICE

Power On/Off

Press the Power button (usually marked with an 'O' or power symbol) to turn the device on. The device will perform a self-test, indicated by flashing LEDs and an audible beep. To turn off, press and hold the Power button, or the device will automatically power off after a period of inactivity to conserve battery life.

Voltage Detection

The GVD 1000-17 offers dual voltage detection ranges for versatile applications:

- **Low Sensitivity Mode:** Detects voltage from 24V to 1000V AC. This mode is ideal for identifying live wires in general electrical installations.
- **High Sensitivity Mode:** Detects voltage from 90V to 1000V AC. This mode is suitable for standard mains voltage detection.

To detect voltage:

1. Turn on the device.

2. Select the desired sensitivity mode using the Mode button (if available, refer to device markings).
3. Place the detection tip near the wire, outlet, or component you wish to test.
4. Observe the LED indicator, listen for the audible alarm, and feel for vibration.
5. A green LED indicates no voltage. An orange LED indicates low voltage (24-90V AC). A red LED, combined with an audible beep and vibration, indicates the presence of AC voltage.



Figure 5: Using the Bosch GVD 1000-17 to detect voltage in a wall socket.



Figure 7: The detector being used on an industrial power outlet.

Flashlight Function

The integrated flashlight can be activated by pressing the Flashlight button. This feature is useful for illuminating dimly lit work areas. The flashlight can often be activated even when the voltage detection function is off.



DETECTOR DE TENSÃO GVD 1000-17

QUEM COMPARA COMPRA BOSCH!

Só a Bosch tem:



DETECÇÃO SEM CONTATO

Detecção de tensão sem contato para realizar testes rápidos de maneira segura e prática



ROBUSTEZ

Corpo reforçado com borracha, proteção IP 67 e teste de queda de 2 metros



MEDIÇÃO SEGURA

Auto-prova contínua automática garantindo que a ferramenta está em condições para ser operada



VERSATILIDADE

2 faixas de operação para detectar até tensões muito baixas

Figure 8: The integrated flashlight illuminates an electrical panel for better visibility.

Demonstration Videos

The following videos demonstrate general non-contact voltage detection principles and features, which are applicable to the Bosch GVD 1000-17. Please note these videos may feature other brands' products but illustrate similar functionalities.

Video 1: Demonstration of a non-contact AC voltage tester, showing basic usage, LED indicators, and flashlight function.
(Demonstrates general functionality)

Video 2: Overview of a non-contact voltage detector's features, including sensitivity adjustment and current leak detection.
(Demonstrates general functionality)

MAINTENANCE

To ensure the longevity and accuracy of your Bosch GVD 1000-17, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears or if the device fails

to power on.

- **Inspection:** Regularly inspect the device for any signs of damage, such as cracks in the housing or a damaged detection tip. Do not use a damaged device.

TROUBLESHOOTING

If you encounter issues with your Bosch GVD 1000-17, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not turn on.	Dead or incorrectly installed batteries.	Replace batteries with new ones, ensuring correct polarity.
No detection or inconsistent detection.	Low battery, incorrect sensitivity mode, or interference.	Replace batteries. Adjust sensitivity mode. Move away from other electrical devices that may cause interference.
False positives (detects voltage where none exists).	High sensitivity mode in an area with strong electromagnetic fields.	Switch to a lower sensitivity mode. Ensure proper grounding of the circuit being tested.
Flashlight does not work.	Dead batteries or flashlight LED failure.	Replace batteries. If the issue persists, contact customer support.

TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Bosch
Model Number	0601077000 (GVD 1000-17)
Power Source	Battery Powered (2 x 1.5 V LR03 AAA batteries)
Color	Black
Item Weight	52 g (0.05 Kilograms)
Min. Operating Voltage	24 Volts (AC)
Voltage Detection Range	24-1000V AC (Low Sensitivity), 90-1000V AC (High Sensitivity)
Safety Rating	CAT IV 1000V
Ingress Protection (IP) Rating	IP67 (Dust and Water Resistant)
Included Components	GVD 1000-17 voltage tester, manual, 2 x 1.5 V LR03 (AAA) batteries

WARRANTY AND SUPPORT

This product may be eligible for an extended warranty. For specific warranty details and registration, please refer to the documentation provided with your purchase or visit the official Bosch Professional website. A 1-year extended warranty by Onsitego may be available for this product.

For technical support, service, or inquiries, please contact your local Bosch Professional service center or authorized dealer. Contact information can typically be found on the Bosch Professional website or in your product packaging.