PeakTech 1030 AC Voltage Detector with Flashlight User Manual

PeakTech®

Unser Wert ist messbar…
AC Voltage Detector with Flashlight
Operation manual

PeakTech® 1030

Contents

Safety Precautions

This product complies with the requirements of the following European Community Directives: 2014/30/EC (Electromagnetic Compatibility) and 2014/35/EC (Low Voltage) as amended by 2014/32/EC (CE-Marking).
Overvoltage category III 1000 V / IV 600 V; pollution degree 2.
CAT I: For signal level, telecommunication, electronic with small transient overvoltage
CAT II: For local level, appliances, main wall outlets, portable equipment
CAT III: Distribution level, fixed installation, with smaller transient overvoltages than CAT IV.
CAT IV: Units and installations, which are supplied overhead lines, which stand at a risk of persuasion of lightning, i.e. main switches on current input, overvoltage-diverter, current use counter.
To ensure the safe operation of the equipment and eliminate the danger of serious injury due to short circuits (arcing), the following safety precautions must be observed.
Damages resulting from failure to observe these safety precautions are exempt from any legal claims.

- Do not use this instrument for high-energy industrial installation measurement.
- Do not apply more than the rated voltage of max. 1000 V AC.
- Do not use the unit if it is wet or damaged.
- To avoid electric shock, do not operate this product in wet or damp conditions. Conduct measuring works only in dry clothing and rubber shoes, i.e. on isolating mats.
- Comply with the warning labels and other info on the equipment.
- Do not subject the equipment to direct sunlight or extreme temperatures, humidity, or dampness.
- Do not subject the equipment to shocks or strong vibrations.
- Do not apply more than the rated voltage as marked on the tester (1000 Volts AC).
- Before each use, verify operation by testing a known working circuit that is within the rating of this tester.
- A steady red glow and continuous beep indicate voltage present. If no indication, the voltage could still be present.
- Do not use it if the green LED is not illuminated after the switch on.
- Before each use, verify operation by testing a known working circuit that is within the rating of this tester.
- Use caution when working with voltages above 30V DC or AC. These voltages pose a shock hazard.
- Do not operate the equipment near strong magnetic fields (motors, transformers, etc.).
- Keep hot soldering irons or guns away from the equipment.
- Allow the equipment to stabilize at room temperature before taking up measurements (important for exact measurements).
- Fetch out the battery when the meter will not be used for a long period.
- Periodically wipe the cabinet with a damp cloth and mild detergent. Do not use abrasives or solvents.
- The meter is suitable for indoor use only
- Do not operate the meter before the cabinet has been closed and screwed safely as the terminal can carry

voltage.

- Do not store the meter in a place of explosive, inflammable substances.
- Do not modify the equipment in any way
- Opening the equipment and service – and repair work must only be performed by qualified service personnel

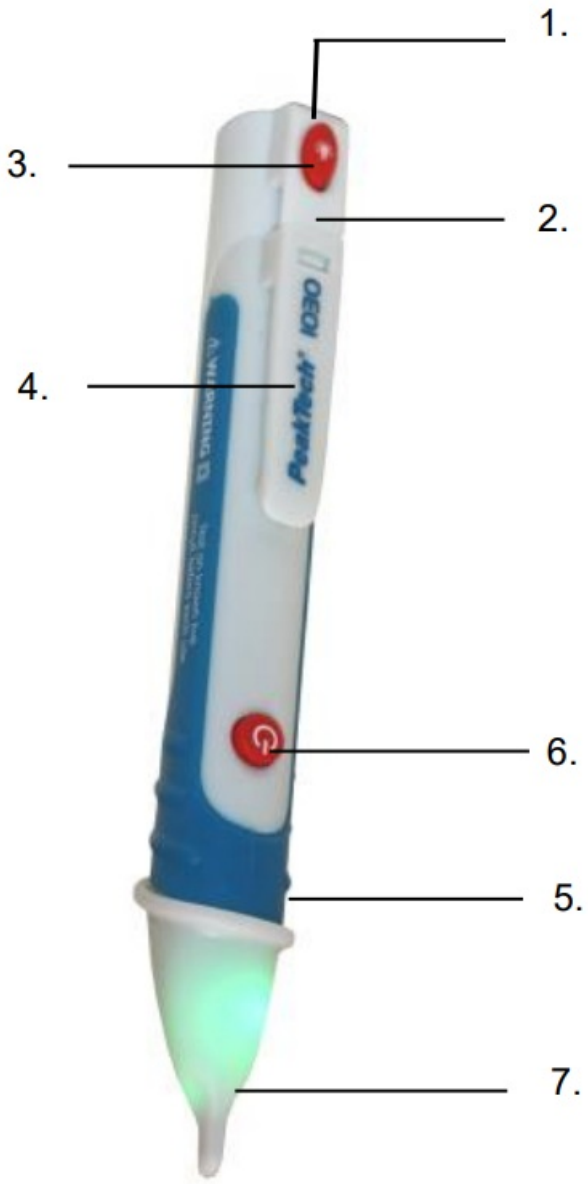
Feature

- Non-Contact Detection of AC Voltage 50 ~ 1000 VAC, 50/60 Hz.
- Rugged, double molded case.
- May be used to find a break in a wire or detect the presence of voltage at outlets, lighting fixtures, circuit breakers, wires, and cables.
- Bright LED and audible beeper if the voltage is present.
- Built-in bright flashlight.
- Convenient size with pocket clip.
- An essential tool for every electrician and tradesperson.

Specifications

Indicators	LED
Voltage Range	50 ~ 1000 VAC (50/60 Hz)
Overvoltage Category	Category III – 1000V (non-condensing)
Battery	Two 1.5 volt batteries (AAA)

Description



1. Flashlight
2. Detector cap
3. Flashlight Power ON/OFF
4. Detector clip
5. Detector body
6. Power ON/OFF voltage detector
7. Probe tip

Operation

The Voltage Detector is useful for identifying active and neutral conductors, finding a break in a wire and detecting the presence of AC voltage at:

- Outlets
- Switches
- Circuit breakers
- Fuses
- Wires and cables

Turn unit on:

- Press the power button.
- Single-beep sounds and the green LED on the tip of the tester starts to light up.
- The tester is now activated and operational.
- Test on the known live circuit to verify tester functionality.
- If you press the power button for 1 second to power on the device, the audible alarm is deactivated.

Note:
If there is no indication, the voltage could still be present.
The operation may be affected by differences in socket design and insulation thickness and type. The device cannot detect voltage inside armored cable or cable in conduit, behind panels, or in metallic enclosures.
Turn unit off:

- Press the power button and listen for a long beep sound and watch the “power on” green/red LEDs turn off.
- The tester is now deactivated and is not operational.

System self-test:

- The “power on” green/red LED & Beeper visually confirms battery sufficiency, system integrity, and operation/active mode. Always test on the known live circuit to verify tester functionality prior to use.

1. Checking for the presence of AC voltage:

- Prior to use, test on the known live circuit to verify tester functionality.
- Place the tip of the tester near an AC voltage. If the tester detects voltage, the “power on” LED in the tip of the tester changes color from green to red and a discontinuous beeping sound is generated.

Operating status
The PeakTech 1030 voltage tester has an acoustic as well as a visual signaler. When switched on, without an AC voltage being detected, the tip of the tester lights up green and no acoustic signal is emitted. As soon as an AC voltage is detected, the tip lights up red and an acoustic tone slowly starts to sound. The closer the PeakTech 1030 is to the voltage source, the faster the audible tone becomes, and the red glow of the tip changes from a pulsating flicker up to a solid red glow. When in direct contact with an AC voltage source, the test probe will glow solid red and the audible tone will sound continuous.
Low battery indication:

- Scenario 1 – Powering on the tester: The “power on” LED in the tip of the tester changes from steady green to blinking green and a series of beeping sounds is generated. The tester then turns off. The unit is now deactivated and is not operational; the batteries require replacement. To replace the tester batteries refer to the Maintenance section titled “Battery Replacement.”
- Scenario 2 – Operating the tester: If the LED lights become dim and the tone fades, the tester may require new batteries. To replace the tester batteries refer to the Maintenance section titled “Battery Replacement.”

Auto Power Off:

- After 5 minutes of non-use, the tester automatically powers off to conserve battery life. Listen for a double beep

sound and watch the “power on” green LED turn off. The tester is now deactivated and is not operational.

Flashlight Operating

- Press and hold the Flashlight ON/OFF button to turn on Flashlight. The flashlight is turned off once the Flashlight button is released.

CAUTION!
Movement generates static voltages. The AC Voltage Detector could react to these static voltages with the short light of the LED and the short sound of the Buzzer. This behavior is normal and it isn’t a defect of the instrument.
Note:
The voltage detector can be used to find a break in a wire:

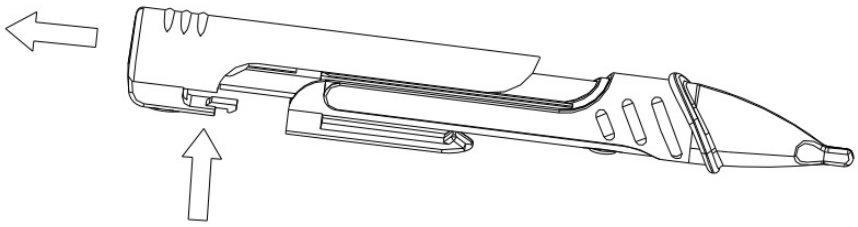
- To find a break in a hot conductor, trace the wire until the signal stops.
- To find a break in a neutral conductor, connect a load between the hot and neutral. Trace the wire until the signal stops.

1. Test the unit on a known functioning circuit or component.
   * If the unit does not function as expected on a known functioning circuit, replace the batteries.
   * If the unit still does not function as expected, send the unit to repair.
2. Place the probe tip on or near the circuit or unit to be tested. Red flashing LED indicates the presence of AC Voltage from 50 ~ 1000V AC (50/60Hz).

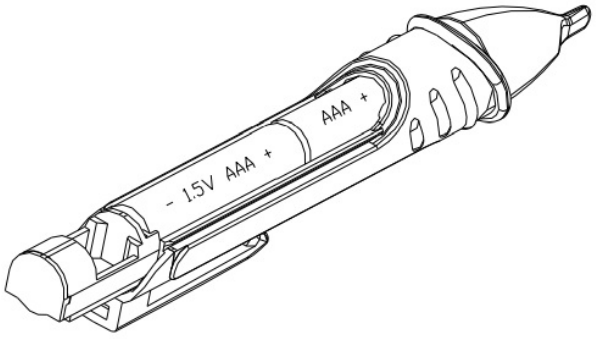
Note:
The voltage detector cannot detect voltage on armored cable or on cable in conduit, behind panels, or in metallic enclosures.

Battery Replacement

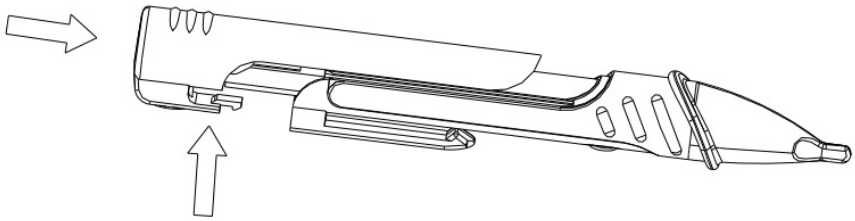
1. Remove the end cap by gently lifting the pocket clip to release the catch.



2. Insert two AAA batteries (observe polarity).



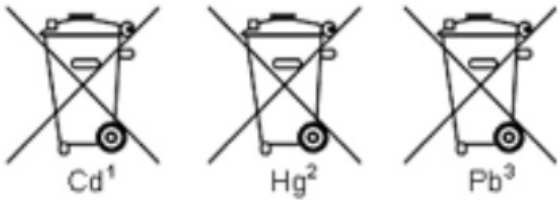
3. Replace the end cap.



Note:
If your meter does not work properly, check the battery to make sure that it is still good and that it is properly inserted.

5.1 Notification about the Battery Regulation

The delivery of many devices includes batteries, which for example serve to operate the remote control. There also could be batteries or accumulators built into the device itself. In connection with the sale of these batteries or accumulators, we are obliged under the Battery Regulations to notify our customers of the following:
Please dispose of old batteries at a council collection point or return them to a local shop at no cost. The disposal of domestic refuse is strictly forbidden according to the Battery Regulations. You can return used batteries obtained from us at no charge at the address on the east side of this manual or by posting with sufficient stamps.
Contaminated batteries shall be marked with a symbol consisting of a crossed-out refuse bin and the chemical symbol (Cd, Hg or Pb) of the heavy metal which is responsible for the classification as a pollutant:



1. “Cd” means cadmium. 2. “Hg” means mercury. 3. “Pb” stands for lead.

This manual considers the latest technical knowledge. Technical changings which are in the interest of progress are reserved.
Misprints and errors are reserved.
We herewith confirm that the units are according to the specifications as per the technical specifications.

PeakTech®
01/2022/Th/Ba/Pt/Mi/Lie
PeakTech Prüf- und Messtechnk GmbH
Gerstenstieg 4
DE-22926 Ahrensburg / Germany
☎+49 (0) 4102 97398 80 +49 (0) 4102 97398 99
info@peaktech.de www.peaktech.de

Documents / Resources

	**PeakTech 1030 AC Voltage Detector with Flashlight** [pdf] User Manual 1030 AC Voltage Detector with Flashlight, 1030 AC Voltage Detector, Voltage Detector, AC Voltage Detector, Voltage Detector with Flashlight, 1030
	**PeakTech 1030 AC Voltage Detector with Flashlight** [pdf] User Manual 1030 AC Voltage Detector with Flashlight, 1030, AC Voltage Detector with Flashlight, Voltage Detector with Flashlight, Voltage Detector, AC Voltage Detector, Detector

References

- Home
- Home