



ZOTEK ZT-DB03 AC Voltage Detector User Manual

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ZOTEK ZT-DB03 AC Voltage Detector



Product Information

The AC Voltage Detector is a handheld device that detects the presence of AC voltage in electrical systems. It is powered by two AAA batteries and has dual sensitivity switching, acousto-optic alarm, flashlight, and other functions.

Product Features

- Dual sensitivity switching
- Acousto-optic alarm
- Flashlight
- Signal intensity indicator
- Power on/off button
- Power/low battery indicator
- LED screen
- NCV inductive head
- Signal indicator
- Automatic power off
- Low battery alert
- Use temperature range: 0~40°C
- Storage temperature range: -10~50°C
- Altitude: up to 2000m

Specification

- High sensitivity: about 12AV voltage range 1000V (The detection range indicator is on)
- Frequency: 50 Hz /60Hz
- Alert: Sound and light double alarm
- Flashlight: White LED

Product Usage Instructions

Before using the AC Voltage Detector, please read the user manual carefully and comply with local and national safety codes. Use proper protective equipment according to regulations of local or national authorities.

Panel Description

The panel of the AC Voltage Detector includes:

1. Battery cover
2. Reduced sensitivity/temperature switching button
3. Increased sensitivity/flashlight button
4. Signal intensity indicator will on when it's high sensitivity
5. Power on/off button
6. Power/low battery indicator
7. LED screen
8. Flashlight
9. NCV inductive head
10. Signal indicator

Product Usage

1. Insert two AAA batteries into the battery compartment.
2. Press the power on/off button to turn on the detector.
3. Select the appropriate sensitivity level using the reduced or increased sensitivity/flashlight button.
4. Place the NCV inductive head close to the conductor or wire to be tested.
5. If AC voltage is detected, the detector will sound an alarm and the signal intensity indicator will display the strength of the voltage signal.
6. The flashlight can be used to illuminate dark areas.
7. To turn off the detector, press and hold the power on/off button.

Safety Precautions

- If the detector is damaged or cannot work normally, do not use it.
- Do not apply voltage exceeding rated voltage indicated on the detector.
- When testing voltage above AC 30V, be very careful to avoid electric shock.

Introduction

This product is powered by two AAA batteries, it's an AC voltage detector with dual sensitivity switching, it has acousto-optic alarm, flashlight and other functions.

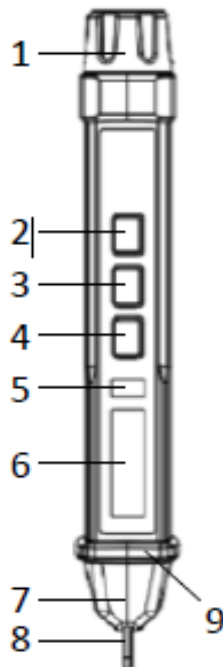
Warning

To avoid electrical shock, or personal injury:

1. Please use this detector strictly according to this manual, otherwise the protection function provided by the detector may be affected.
2. If the power indicator is not on, please do not use.

3. Before use, test on the electrified power supply, to guarantee the product under sound working condition.
4. Before using this detector, even there's no sound or light alarm, voltage may still exist. The detector only indicates the valid voltage when there's AC voltage generating electrostatic field with sufficient intensity.
5. If the electric field intensity is very low, the detector may not detect. The detector may be affected by the following factors, and these factors include but not limited to: Shielded wires/cables, insulation layer thickness and type, distance from voltage source, complete insulation layer, socket design difference etc.
6. If the detector is damaged, or the detector cannot work normally, please do not use.
7. Please do not apply voltage exceeding rated voltage indicated on detector.
8. When testing voltage above AC 30V, be very careful, to avoid electric shock.
9. Please comply with local and national safety codes. Use proper protective equipment according to regulations of local or national authorities.

Panel Description



1. Battery cover
2. Reduced sensitivity/temperature switching button
3. Increased sensitivity/flashlight button Signal intensity indicator will on when it's high sensitivity
4. Power on/off button
5. Power/low battery indicator
6. LED screen
7. Flashlight
8. NCV inductive head
9. Signal indicator

Operation Instructions

Turn on/off

Press the power on/off button for two seconds, the buzzer makes alarming sounds flashlight, signal intensity indicator, signal strength indicator band, power/low battery indicator, sensitivity switching button indicator flashes once at the same time. When no AC signal is detected, the power indicator will change to the breathing indicator state with the current standby. When the detector is on, press the power on/off button, to turn off the detector.

Low/high sensitivity switch

At first, it's low sensitivity, the ac voltage range is about 48-1000V, when press the "S" button, the button indicator is light to indicate the current state of high sensitivity, the ac voltage range is about 12-1000V. Press the button to switch the low/high sensitivity.

Turn on/off flashlight

When the detector is on, press the flashlight on/off button to turn/off the flashlight.

Automatic power off function

When there's no operation of the detector or there's no signal detected range by the detector, the detector will power off automatically.

AC voltage detection

Insert the probe of the tester into power socket or get close to the live wire, when the tester defects AC voltage signal, The LCD screen displays the signal strength in a single bar. The LCD bar status, signal indicator, and buzzer also change with the signal strength. When a strong signal is detected, the single cell is full, and the LCD green screen turns to red. At the same time, the signal indicator light and the buzzer are synchronized to the highest operating frequency.

Neutral line/live wire judgment

Separate two wires to be tested as far as possible, and then use the probe of the detector to get close to the wires, for socket, insert the probe into the socket, and the one with strong induced signal detected by the detector is live wire, while the one with weak induced signal or without induced signal is neutral line.

.Battery under voltage indication

When the battery voltage is low, the power/low battery indicator is steady red. Please replace the battery timely.

Temperature display

When no voltage signal is detected after the power supply is turned on, the LCD screen displays the reading value of the current ambient temperature degree Celsius. Long press (Figure 2) to switch the reading value of Fahrenheit.


Specification

AV voltage range	High sensitivity: about 12- 1000V(The detection range indicator is on)
Frequency	50 Hz /60Hz
Alert	Sound and light double alarm
Flashlight	White LED
Automatic power off	√
Low battery alert	√
Use temperature	0~40°C
Storage temperature	-10~50°C
Altitude	<2000m
Safety level	CE CAT.II 1000V
Power supply	2 x 1.5V AAA
Dimension	23*28*156mm
Weight	33g without battery

Limited warranty and liability scope

This product is subject to a one-year warranty from the date of purchase, but this warranty does not cover the use of disposable batteries, or damage due to accident, negligence, abuse, modification, pollution, and abnormal operating environment. This manual is subject to change without prior notice. The contents of this manual are deemed to be correct. If the user finds any errors or omissions, please contact the manufacturer. The company is not liable for accidents and hazards caused by users' wrong operations; the functions described in this manual shall not be used as a reason to use the product for a special purpose.

Documents / Resources

	ZOTEK ZT-DB03 AC Voltage Detector [pdf] User Manual ZT-DB03 AC Voltage Detector, ZT-DB03, AC Voltage Detector, Voltage Detector, Detector
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