

Neon-electroscope User Manual

Introduction

This product is powered by two AAA batteries, it's a neon-electroscope 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 electroscope strictly according to this manual, otherwise the protection function provided by the electroscope 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 electroscope, even there's no sound or light alarm, voltage may still exist. The electroscope 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 electroscope may not detect. The electroscope may be affected by the following factors, and these factors include but are not limited to:

Shielded wires/cables, insulation layer thickness and type, distance from voltage source, complete insulation layer, socket design difference etc.

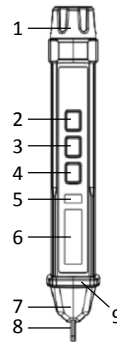
6. If the electroscope is damaged, or the electroscope cannot work normally, please do not use.

7. Please do not apply voltage exceeding rated voltage indicated on electroscope.

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. Flashlight on/off button
3. Sensitivity switching button
(Signal intensity indicator will on when it's high sensitivity)
4. Power on/off button
5. Power/low battery indicator
6. AC voltage signal strength indicator band
7. Flashlight
8. NCV inductive head
9. Signal indicator

Operation Instructions

1. 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 electroscope is on, press the power on/off button, to turn off the electroscope.

2. 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.

3. Turn on/off flashlight

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

4. Automatic power off function

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

5. AC voltage detection

Insert the probe of the tester into power socket or get close to the live wire, when the tester detects AC voltage signal, the induced voltage signal indicator flashes, according to the detected signal strength, the signal strength indicator will show three kinds of color, green, green + red or red, meanwhile the buzzer makes alarming sounds of different frequencies:

When AC voltage signal is detected, the signal intensity indicator is green(low);

When higher AC voltage signal is detected, the signal intensity indicator is green + red(medium);

When the highest AC voltage signal is detected, the signal intensity indicator is red(high).

6. Neutral line/live wire judgment

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

7. Battery undervoltage indication

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

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.