

Voltage Detector Stick Instructions

INTRODUCTION

This non-contact voltage tester is a safe way to ensure that the electrical power is off and that no voltage is present without the need to touch any wires or exposed components. Designed for detecting 5 - 1000V AC voltages the detectors LED indicator will flash Red and the built-in buzzer will sound short beep(s) when a voltage is present. The detector also features an LED light for use in low light conditions and a state of charge battery indicator.

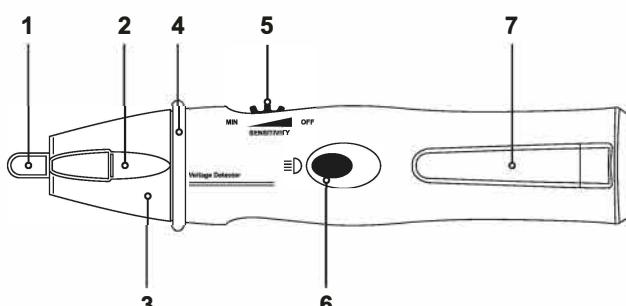
FEATURES

1. Safe, reliable non-contact AC voltage detection
2. Audible and visual indication from 5V to 1000V AC
3. Can be used to check whether a cable, wire or socket contains AC voltage or to locate a breakpoint in a live line.
4. Adjustable detection sensitivity
5. After adjusting the detectors sensitivity to a suitable level, this detector can discriminate between Live and Neutral terminals on an energized AC110V power socket.
6. LED spotlight for use in low light conditions
7. Battery charge indicator

IMPORTANT SAFETY INFORMATION

It is essential that you read and understand the instructions contained in this manual before using the voltage detector for the first time. Failure to follow these instructions could result in an electrical shock or possible damage to the meter or to the equipment under test. This manual should be stored safely for future reference.

DIAGRAM



1. Probe

Used to detect AC voltage

2. LED Light

Ideal for illumination when working in dark spaces.

3. Detection Indicator LED

When the unit detects AC voltage, this will flash red.

4. Finger Guard

To avoid electric shock, do not hold unit beyond this point.

5. Power Switch / Sensitivity Dial

Used to turn the unit on / off as well as adjusting the unit's detection sensitivity. When you turn the unit on by turning the dial forwards, the unit will sound a beep. The unit is at the highest detection level. Continuing to turn this knob forwards will decrease the detection sensitivity gradually.

6. LED Light Button

Press and hold this button to turn on the LED light. Release to turn it off.

7. Pocket Clip

For safe and easy storage

Specifications

Voltage detection range:	5 - 1000V AC
Frequency range:	50 - 400Hz
Safety category:	CAT IV 1000V
Operating environment:	0°C - 40°C / < 85% humidity
Battery:	2 x AAA or equivalent
Size:	154 x 32 x 28mm
Weight:	50g (including battery)



TESTING UNIT PRIOR TO USE

Make sure that the unit has been turned off, then turn the power switch/sensitivity knob forwards until a click is heard. The built-in buzzer sounds two beeps, meanwhile the detection indicator LED flashes red twice. Now the unit's sensitivity is at the highest level.

Move the unit's probe close to a known AC power source (such as an outlet). If the built-in buzzer beeps and the detection indicator LED flashes red, the unit is good and can be used.

NOTE: After you turn on the unit, the detection indicator LED will flash red periodically as a high battery indication if the batteries are high enough. If the detection indicator LED does not flash periodically even if there is no ac voltage being detected, the batteries are low and must be replaced immediately.

DETECTING AC VOLTAGE

Turn the power switch/sensitivity knob forwards until a click is heard to turn on the unit. Then adjust this knob for a desired sensitivity according to the need of the actual detection task.

Move the unit's probe close to the wire or socket to be tested. When the unit detects AC voltage, the built-in buzzer will beep and the detection indicator LED will flash red. If the voltage to be detected is low, you should set the unit's sensitivity to the highest level; and if you want to locate a breakpoint on a live line, you should lower the unit's sensitivity appropriately.

The unit can be used to trace a live wire to locate the breakpoint on this wire. The position where the unit stops giving alarm is probably where the breakpoint exists.

When you move the unit's probe close to an object with static charge, the unit may give alarm; and when you move the unit's probe close to an iron object near which there is AC current, the unit may also give alarm.

NOTE: Before detection, you must adjust the unit's sensitivity according to the need of the actual detection task. The higher the unit's sensitivity, the longer the unit's detection distance. But detection will likely be interfered with by the electric field or electromagnetic field in environment if the sensitivity is set too high. It is recommended to set the sensitivity to the lowest level first, then increase it gradually to the desired level according to the need of the actual detection task if necessary.

ELECTRICAL SYMBOLS

 Alternating Current.

 Caution, risk of electric shock.

 The equipment is protected throughout by double insulation or reinforced insulation.

 Caution, risk of danger. Refer to the instructions sheet before use.

 Conforms to European Union directives.

Warning



Failure to follow instructions could lead to the risk of electric shock and burn. Contact with live circuits can result in death or serious injury. Any work carried out on an electrical item after the detection of a live source should only be performed after the voltage has been isolated.

Do not use the unit to detect an AC voltage below 5V AC or above 1000V AC.

Do not use the unit for any DC voltage detection.

If there are several lines, such as 2-phase or 3-phase wires, separate them far enough apart from each other and perform voltage detection on each line.

Because of the unit's detection limit, sensitivity setting and the detection distance can affect detection, the object under test may be live even if the built-in buzzer does not beep and the detection indicator LED does not flash. To avoid electric shock and personal injury, don't touch any naked conductor with hand or skin.

Due to the interference caused by the electric field in the environment, the unit may give an alarm even if the object under test does not contain AC voltage. To avoid false alarm, don't use the unit in an intense electric field environment.

Do not use the unit if it is damaged or operates abnormally, or for detection on any shielded conductor.

If a power socket's live and neutral terminal are too close to each other, it will be impossible for the unit to discriminate between them.

BATTERY REPLACEMENT

After you turn on the detector the detection indicator LED will flash Red periodically if the batteries have sufficient charge to power the detector. If the detection indicator LED stops flashing periodically, the batteries are low and must be replaced immediately.

Before replacing the batteries turn the detector off by turning the power switch backwards until a click is heard. Then remove the battery cover and replace the depleted batteries with two new batteries of the same type (1.5V battery, AAA size), make sure that the polarity connections are correct. Reinstall the battery cover.

We recommend the use of Lighthouse Alkaline batteries product code: **L/HBATAAA**

NOTE

1. This manual is subject to change without notice.
2. Faithfull tools take no responsibility for any personal injury, loss or damage caused by the inappropriate or misuse of this product.
3. The contents of this manual cannot be used as the reason to use the meter for any other special application.

Every Faithfull electrical product is guaranteed for a period of one year, subject to the same exceptions as mentioned above. In the case of electrical products used for hire, the guarantee period is restricted to three months.

DISPOSAL OF THIS ARTICLE

Dear Customer,

If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled. Please do not dispose of this product in the household waste bin, but check with your local council for recycling facilities in your area.



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