



## **INSTRUCTION MANUAL**

**MT269**

**69kV AC  
VOLTAGE DETECTOR**





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## 1. Safety Rules

The safety voltage detector has been designed with safety in mind. However, no design can completely protect against incorrect use.

**Electrical circuits are dangerous and lethal through lack of caution or poor safety practice. The following rules should reduce the danger:**

- Read the manual carefully and completely before using the safety voltage detector. Fully understand the instructions before using this product. Follow the instructions for every test. Take all the necessary precautions. Do not exceed the limits of this safety voltage detector.
- The safety voltage detector must never be in physical contact with any conductor higher than 1kV. This is a proximity detector, not a detector which works by contact.
- Always check that the safety voltage detector is working before and after the test.

**This instrument should only be used by a competent, suitably trained person who understands this test procedure fully. Personnel working with high voltage should be trained regularly.**

## 2. General Description

The safety voltage detector is a new instrument for checking the presence of AC voltages.

The safety voltage detector detects AC voltages using the sensor plate. The sensor plate collects part of the radiated electric field (V/M).

The safety voltage detector works by proximity. Its sensor senses the radiated field which surrounds live conductors.

This is an instrument designed to alert users that they are approaching live equipment where dangerous voltage is present.

The safety voltage detector helps the user stay a safe distance away from live equipment.

It therefore protects and safeguards users from approaching dangerous live high voltage equipment or cables.  
It's a new tool for checking the presence of AC high voltages and low voltages. The voltage detection is from 100Vac to 69kVac.

### 3. Features

- Bright LED visual indication
- Audible indication
- AC voltage detection: 100Vac ~ 69kVac
- Frequency range: 40 ~ 70Hz
- Easy-to-prove method
- Self-test function
- Power source: 9V alkaline battery
- Non-contact detection by proximity
- Convenient to use
- Operating temperature and humidity:  
0°C~40°C / 80% RH Max.
- Lightweight, robust and compact
- Easy access to battery
- Comply with EN 61326-1

### 4. Specifications

Function	Range
AC Voltage detection	100Vac ~ 69kVac
Frequency range	40 ~ 70 Hz
Operating temperature and humidity	0°C ~ 40°C / 80% R.H. Max.
Sound level	> 99 dB
Weight (battery included)	Approx. 153g
Dimension	110(L) x 71(W) x 40(D)mm
Power source	9V Alkaline battery
Safety standard	EN 61326-1
Accessories	Instruction Manual Soft pouch Alkaline battery

## 5. Instrument Layout

- |   |                      |
|---|----------------------|
| 1 - Buzzer<br>High noise level buzzer<br>triggered on voltage<br>detection. | 4 - SELF TEST button |
| 2 - Visual alert LEDs   | 5 - Clip             |
| 3 - ON/OFF switch   | 6 - Battery cover    |
|   | 7 - Soft pouch       |



## 6. Method of use

### Important:

If hung around your neck.

### 6.1. Checking and Proofing

Turn the ON/OFF switch to the ON position, then press the SELFTEST button, the buzzer of the safety voltage detector should beep, and the LED indicator should light.

This indicates that the safety voltage detector is operational.

Turn the ON/OFF switch to the ON position. Verify the working of this safety voltage detector by placing the unit against a low voltage live conductor. The LED indicator and the buzzer should go on.

### 6.2. Operation

Turn the ON/OFF switch to the ON position for the non-contact voltage detection.

The safety voltage detector should always be on the outside of any clothing.

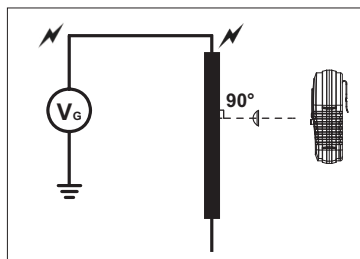
For example, the safety voltage detector has to be in the soft pouch, put the safety voltage detector on your chest with the lanyard around your neck. Please see fig1.



fig1.

The safety voltage detector could be sensitive to static build-up and may become charged. In this case, this could trigger the alarm.

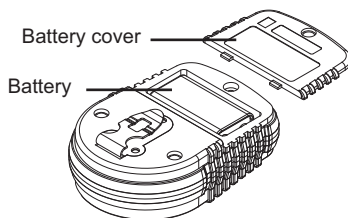
The safety voltage detector should be facing the direction of walking toward the AC power source. While facing the AC power source, this would be the front of your body. Always ensure that the alarm can be heard and seen (in case of noisy environment, check again the alarm sound before using, to ensure that you can be alarmed).



the ideal detection angle.

## 7. Battery Replacement

1. Unscrew the battery cover and replace with new 9V alkaline battery.
2. Re-install the battery cover.



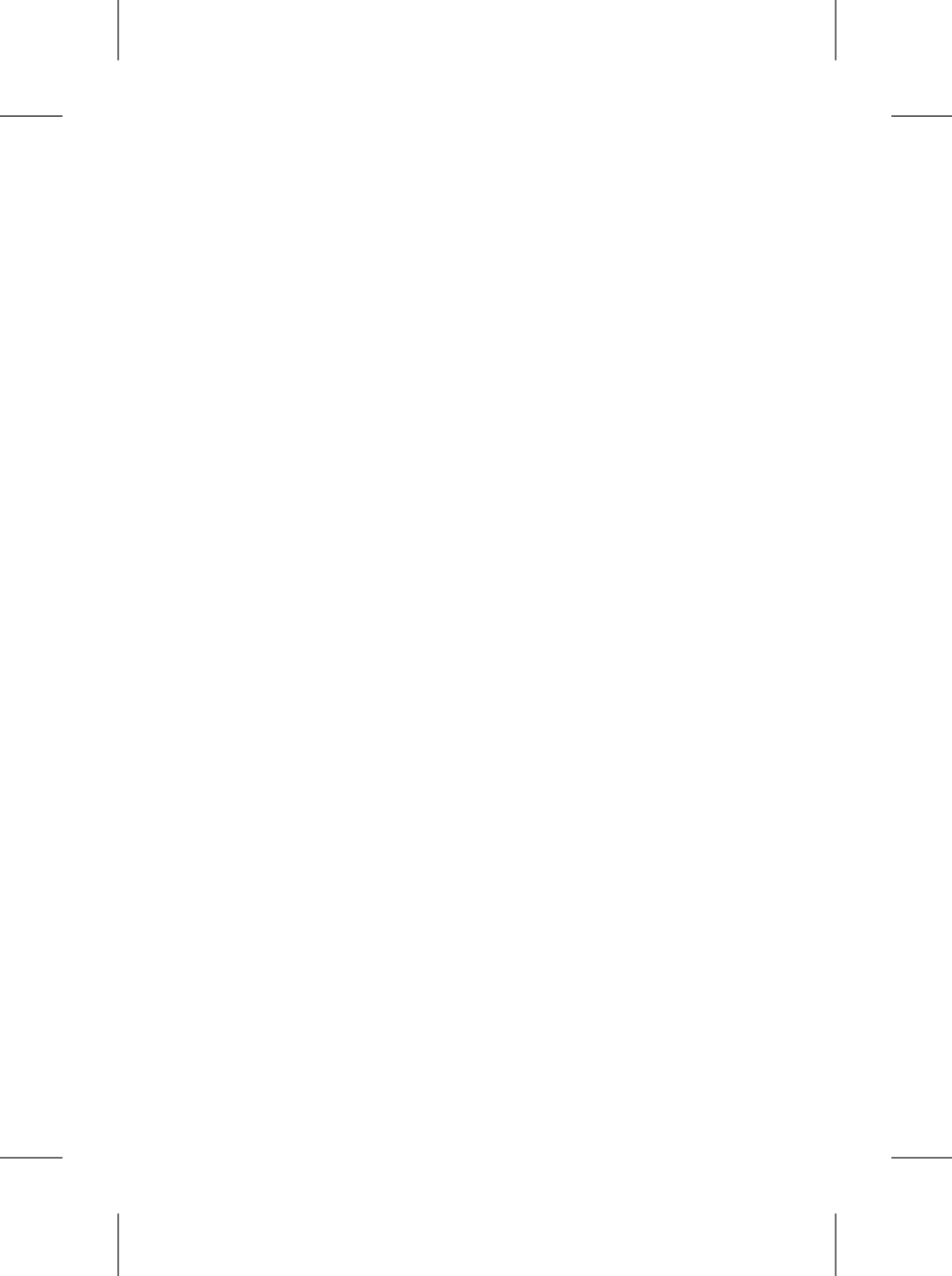


## **8. Cleaning and Storage**

Periodically, wipe the case with a damp cloth and Detergent. Do not use abrasives or solvents.

If the instrument is not used for over 60 days, remove the battery for storage.







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