

# High Voltage Proximity Detector



## 275 HP

### FEATURES

- 8 voltage settings: 240Vac, 2kV, 6kV, 11kV, 22kV, 33kV, 132kV, and 275kV.
- High bright LED visual indication.
- Sound indication.
- Easy-to-prove method.
- Self-test selection.
- Use 3 × 1.5V "C" batteries.
- High impact nylon casing.
- Non-contact work by proximity.
- Compatible with most link sticks.
- Lightweight, robust, & compact.
- Suitable for indoor and outdoor use.
- Detects low voltage on any systems.
- Easy access to batteries.
- No special parts needed.
- Meets EN 61326-1 EN 55011 EN 61000-4-2 EN 61000-4-3
- United States Design Patent : US D474, 705 S
- **Special ranges are available upon request.**

### Expected test results (Laboratory testing):

Range	Operated from
240V	Variable from 80V or depending on the type of source
2kV	250V
6kV	500V
11kV	1000V
22kV	1500V
33kV	4000V
132kV	8000V
275kV	22kV

The 275 HP is a high voltage proximity detector. It has eight voltage detection settings from 240Vac to 275kVac. The 275 HP consists of an internal pickup sensor plate, a sensitivity selector, a visual and a sound annunciator. With the 275 HP, physical contact with electrical conductors is not necessary when testing for live lines. This 275 HP works by proximity. Its sensor senses the radiated field which surrounds live conductors. Radiated field strength increases with voltage and decreases quickly with distance or earth shielding. The radiated field from a cable of closely bunched conductors supplied by three phase power tends to cancel (See "Limitations of use" paragraph). Detecting distance of a 250Vac single live wire is approximately 10cm. With a bunched neutral and earth cable, as in a flexible cable, the distance is reduced to 5cm.

Some of the typical uses are : identify and check live cables ; find fault in flexible cables ; check earth equipment ; service neon lightning ; trace live wires ; check high frequency radiation ; detect residual or induced voltages. For example, faults in damaged flexible cables are found by applying low voltage to each conductor. Earthing the remainder and moving the tester along the cable until the change in condition is obtained. (Flexible cables which are used in mining and building industries, are readily repairable when the break in the cable is located.)

When testing for high voltage, the rotary switch (attenuator) is used to identify and differentiate various H.V. live cables. The detector must be used in conjunction with a long and insulation rod when measuring high voltage (kV). However, the 275 HP is a non-contact tester and it is advised that the tester should never come into contact with cables (kV) as this tester is merely a non-contact AC proximity detector.

Checking or proofing the tester is easy. Switch the sensitivity to 240V and place the dome against a low voltage live conductor or rub the dome with a cloth or against an item of clothing as this generates a static DC which triggers the detection of circuit. The light and beeper should go "on" as if a live wire is being.

### Models list

Model Code	Range
275kV01	OFF--TEST--240V--2kV--6kV--11kV--22kV--33kV--132kV--275kV
275kV02	OFF--TEST--240V--3.3kV--6.6kV--11kV--22kV--33kV--66kV--132kV--275kV
275kV03	OFF--TEST--240V--11kV--22kV--33kV--66kV--110kV--132kV--210kV--275kV
275kV04	OFF--TEST--2.3kV--6kV--11kV--22kV--33kV--132kV--275kV
500kV01	OFF--TEST--240V--3.3kV--11kV--22kV--33kV--66kV--110kV--220kV--330kV--500kV
500kV02	OFF--TEST--240V--4.2kV--15kV--69kV--115kV--230kV--345kV--500kV
500kV03	OFF--TEST--240V--69kV--115kV--138kV--230kV--500kV
500kV04	OFF--TEST--230V--3kV--6kV--10kV--35kV--66kV--110kV--220kV--330kV--500kV
500kV05	OFF--TEST--240V--4.2kV--35kV--69kV--115kV--230kV--345kV--500kV
230kV01	OFF--TEST--240V--69kV--115kV--138kV--230kV
230kV02	OFF--TEST--240V--4.2kV--15kV--25kV--35kV--69kV--115kV--230kV
220kV01	OFF--TEST--240V--3.3kV--6.6kV--11kV--22kV--33kV--66kV--110kV--220kV
33kV01	OFF--TEST--33kV
11kV01	OFF--TEST--11kV
115kV01	OFF--TEST--240V--11kV--15kV--34.5kV--69kV--115kV



CAC-275 Y

TOC-275 P