

**INTRODUCTION**

The Metravi 275HP1 and 275HP2 High Voltage Detectors and Electroscopes are specially designed and manufactured for electrical testing on high voltage transmission lines.

They are used for high voltage line inspection on field, identification of voltage level of high voltage systems, inspection of high voltage line faults, repairing neon lamp, induced voltage for high voltage sodium lamp inspections, inspection of residual high voltage or induced voltage and so on.

These also prove to be necessary instruments for Railways and Power System Line maintenance.

- The device is a high voltage detector and has to be combined with a telescopic insulation rod (not included and optional at extra cost).
- It adopts non-contact induction technology, which does not need contact to the charged body, ensuring safety for operators.
- The electroscopes features red LED, buzzer sound and light alarms, which are easy to identify.
- 9 voltage gears cover various voltage levels and the device is suitable for various high voltage systems.
- You can save costs as there is no need to purchase multiple sets of high voltage electroscopes for varying and different voltage levels.
- With IP65 protection, these can be used indoors and outdoors.
- The Electroscopes is to be used with adjustable connectors and insulation rods\*\*, which enable reliable connection and makes operation convenient.

Operation is simple and safe. The instruments are reliable, time-saving, quick and provide a safe, practical and convenient new-type electric tool for electric inspectors.



**SAFETY NOTICE**

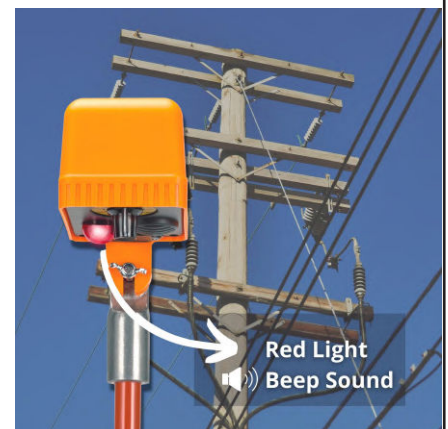
The electricity testing is to be carried out in accordance with the relevant requirements for live operation in the electric power safety work regulations of state grid corporation of India. The electricity testing is to be carried out in fine weather. While testing, the operator is to wear insulation gloves. The safe distance between an operator and the electrified body, and the effective insulation length of the insulation rod detail are as follows:

**The safe distance between a person and an electrified body**

Voltage Level	11KV	33KV	66KV	110KV	220KV	330KV	500KV
Safe Distance	0.4m	0.6m	0.7m	1.0m	1.8m	2.2m	3.4m

**The minimum effective insulation length of the insulation rod for live electrical operations**

Voltage Level	11KV	35KV	66KV	110KV	220KV	330KV	500KV
Min Effective Insulation Length	0.7m	0.9m	1.0m	1.3m	2.1m	3.1m	4.0m



Note: \*\*Kit with Insulation Rod & Carrying Case is optional and not part of device. It is available at extra cost.

\*Technical Specifications & Appearance are subject to change without prior notice

**TECHNICAL SPECIFICATIONS**

Parameter	Specifications
Functions	For high voltage line inspections on field, identification of high voltage systems and voltage levels, inspections of high voltage line faults, repairs of neon lamps, high voltage sodium lamp inspections and induced voltage.
Power Supply	Zn-Mn dry battery 6F22,9V
Voltage Level	9 Gears
Electricity Testing Level	110V~500KV(optional)
Electricity Testing Indication	Red double-flash LED indicator
	"Bee-bee-bee" buzzing sound audible indicator
Self-Inspection Function	Set the rotary switch to "TEST" gear, the indication turn on, the buzzer make out "Bee--" sound
Battery Voltage Low Indication	When the detector battery voltage is lower than 7.2V±0.1V, the LCD indicator flashes slowly, reminding to replace the battery
Protection Level	IP65
Instrument Weight	Instrument: 520g; Package and insulation rod total weight: 4.6KG
Instrument Size	135mm × 115mm × 85mm
Insulation Rod Length**	Max φ38mm, Contraction state: 1000mm; Stretched state: 4500mm (**Optional Accessory)
Insulation Test	The insulation rod stretched to both ends: AC 220 kV / RMS Host, detector: AC3700V / RMS (between exposed metal and plastic shell)
Working Temperature	-10°C~40°C; ≥ 80%RH
Storage Temperature	-10°C~60°C; ≥ 70%RH

**MODELS**

Model	Voltage Levels
275HP1	OFF-TEST- 240V-3.3kV-6kV-11kV-22kV-33kV-66kV-132kV-275kV
275HP2	OFF-TEST- 380V-6.6kV-10kV-35kV-66kV-110kV-220kV-330kV-500kV

**Accessories :**

**Only Detector:** Detector, User Manual

**Kit:** Detector, Carrying Case, Insulation Rod, Screw & Nut, User Manual

**KIT INCLUDES:**

- Padded Carrying Case with Belt
- Telescopic FRP Rod
- Detector
- Screw & Nut
- User Manual
- Test Certificate



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