

High Voltage Detectors

HV-440

HV-220

HV-132

HV-50



INTRODUCTION :

The High Voltage Detector is a SAFETY DEVICE used to verify that the overhead line is not LIVE prior to earthing. It is suitable for 11 KV/ 33 KV / 132 KV / 220 KV/ 440 KV supply lines. It is powered by a single 9V battery. The HV Detector starts annunciation with flashing Red LED's and buzzer beeps indicating that the line is LIVE and not safe to earth and carry any operations.

FEATURES

- Colour code models for different voltage levels.
- Non contact type Probe.
- Indicates the presence of HIGH VOLTAGE by audio annunciation as well as visual indication.
- Bright high intensity RED LED'S provide clear visual indication even in unfavorable daylight conditions. A buzzer produces a loud beep which is audible even in noisy backgrounds.
- Supplied as a complete Kit with HV Detector Probe, Telescopic Fibre Glass Reinforced plastic Insulation stick and ergonomically designed sturdy Carrying bag.
- Self Test button to test battery and proper functioning of HV detector.
- Selectable sensing level 1m/3m/5m for HV-D 132/HV-D 220/HV-D 440
- Powered by a single 9V Battery type (6F22), Easily replaceable on field.
- Type tested at CPRI.



HV-50 :

Safety Device Designed for 6.6 KV to 33 KV AC 50 Hz overhead lines in HV Switch yards, Distribution lines, Power Plants and similar installations. Sensing distance approx. 3 mtrs. for 33 KV and 1 mtr. for 11 KV circuit.



HV-132 :

Safety Device Designed for 11 KV to 132 KV AC 50 Hz overhead lines in HV Switch yards, Transmissions lines, Power Plants and similar installations.



HV-220 :

Safety Device Designed for 33 KV to 220 KV AC 50 Hz overhead lines in HV Switch yards, Transmissions lines, Power Plants and similar installations.



HV-440 :

Safety Device Designed for 66 KV to 440 KV AC 50 Hz overhead lines in EHV Switch yards, Transmissions lines, Power Plants and similar installations.

GENERAL SPECIFICATIONS

● **HIGH VOLTAGE INDICATION :**

RED LEDs start flashing with an audible buzzer if taken into High Voltage induction area.

● **TEST VOLTAGE RANGE :**

Test Voltage range as per the models : HV-50 for 6.6 KV to 33 KV, HV-132 for 11 KV to 132 KV, HV-220 for 33 KV to 220 KV, HV-440 for 66 KV to 440 KV.

● **ELECTRICAL SPECIFICATIONS :**

Insulation Resistance : Greater Than 100M Ohms by 1KV I.R. Tester.

Dielectric Strength : Equivalent or greater than as per model selected.

● **POWER SPECIFICATIONS :**

Current Consumption : 30mA maximum

Battery Low : 7.2 V Nominal

Battery : 9V / Battery type 6F22 or equivalent

Visual Indication : High Bright LEDs flashing

Audible Indication : Buzzer beeps Loudly

● **ENVIRONMENTAL SPECIFICATIONS :**

Recommended Operating

Temperature Range : 5°C to 50°C

Humidity : <85% RH non-condensing

Storage Temperature : 10°C to 60°C,
<85% RH non-condensing Range

● **UNIVERSAL LINK:**

Material : Glass Filled Nylon

Length : 95mm Approximate

● **INSULATED STICK :**

Material : Fibre Glass (Sturdy & Rugged)

Length : Telescopic Extendable length 3 mtrs.
for 33 KV & 5 mtrs. for 132 KV & above.

● **PHYSICAL SPECIFICATIONS :**

Length : 245mm Approx.

Diameter : 105mm Approx.

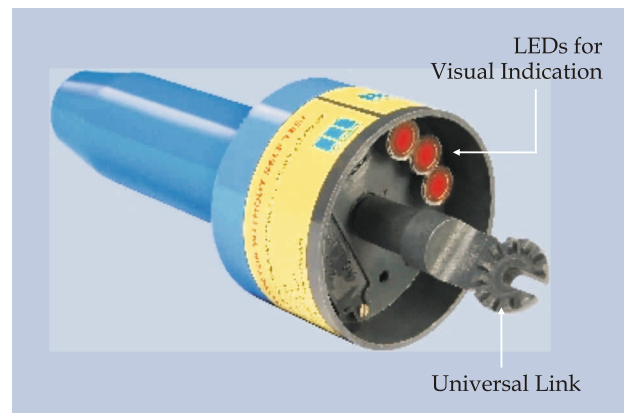
Product Weight : 500 grams approx

Telescopic Rod Weight : 3mtr < 2Kg
5.5mtr < 4Kg

Hot stick Weight : 4mtr < 4Kg



▲ Non Contact Type Probe.



Sturdy & Rugged telescopic extendable fibre glass rod with carrying bag.

Notes

1. The Instrument is accompanied with Test & calibration sheet. 2. Test Facilities can be provided at the factory with the available test set-ups only. 3. The company's policy is continuous improvement of its products. We therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 10% of the range to 95% of the range. 5. Accuracy Specified for temperature range of $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ & 55% RH $\pm 10\%$



Designed and Manufactured by:

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