



EMPOWERING  
MEASUREMENT



## High Voltage Detector HV-50

### FEATURES

- Designed for 11KV to 440KV AC 50 Hz overhead lines in EHV Switch yards, Transmissions lines, Power Plants and similar installations.
- Supplied as a complete Kit with HV Detector Probe, Telescopic Insulation stick and ergonomically designed sturdy Carry bag.
- Indicates the presence of HIGH VOLTAGE by audio as well as visual annunciation.
- 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 loud noisy backgrounds.
- TEST button to test battery and proper functioning of HV detector.



## INTRODUCTION :

The High Voltage Detector HV-50 is a SAFETY DEVICE used to verify that the overhead line is not LIVE is prior to earthing. It is suitable for 11KV/33KV supply lines. It is powered by a single 9V battery. The HV Detector is continuous i.e. is monitoring type the internal circuit of the equipment is continuously powered by the battery and it keeps monitoring the voltage level at the contact electrode. As soon as the voltage at the contact electrode exceeds minimum user defined Detector itage level, the HV starts annunciation with flashing Red LED's and buzzer beeps indicating that the line is LIVE and d not safe to earth

## GENERAL SPECIFICATIONS

- **HIGH VOLTAGE INDICATION :**  
RED LEDs start flashing with an audible buzzer when the voltage at the content electrode exceeds minimum user defined voltage.
- **TEST VOLTAGE RANGE :**  
**Standard** : 11KV to 33 KV, 50Hz AC (for HV 50)  
 (Voltage level can be user defined from 230V to 440KV AC)
- **ELECTRICAL SPECIFICATIONS :**  
**Insulation Resistance** : Greater Than 100M Ohms @1000V DC of HV Detector.  
**Dielectric Strength** : 220KV AC, 50Hz of complete assembly  
**Drop Resistance** : The Voltage Detector is dropped from horizontal and vertical positions from a height of 1m on to a test surface of concrete..
- **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
- **UNIVERSAL LINK:**  
**Material** : Glass Filled Nylon  
**Length** : 95mm Approximate
- **INSULATED STICK :**  
**Material** : Fibre Glass (Study & Rugged)  
**Length** : Extendable length 3 or 5 Meters.
- **PHYSICAL SPECIFICATIONS :**  
**Length** : 245mm Approximate  
**Diameter** : 105mm Approximate  
**Weight** : Approximate 2.5Kg.including Telescopic Insulated Stick.
- **ENVIRONMENTAL SPECIFICATIONS :**  
 Recommended Operating Temperature Range : 5degree C to 50 degree C  
 Humidity : < 85% RH non-condensing  
 Storage Temperature : 10 degree C to 60 degree C, <85% RH non-condensing Range



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**NOTES** 1.The Instrument is accompanied with Test & calibration sheet. 2.Test Facilities 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 alteration from illustration or specifications without notice. 4.Stated accuracies are valid from 1/10th of range to FS. 5.Accuracy Specified for temperature range of 25 C ± 5 C& 55%RH ±10%.



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