



## Features

- ✓ Contact / Non-contact type Detectors.
- ✓ Type tested at CPRI/ERDA
- ✓ Available in FRP Telescopic Rod.
- ✓ Colour Code models for different voltage levels.
- ✓ Indicates presence of High Voltage by Audio
- ✓ Annunciations as well as Visual Indications.
- ✓ Bright high intensity red LED's provide clear visual Bullet even in unfavourable daylight conditions.
- ✓ A Buzzer produces a loud beep which is audible even in noisy backgrounds.
- ✓ Supplied as a complete kit with HV Detector, Telescopic Fibre Glass Insulation stick and ergonomically designed sturdy carry bag.
- ✓ Self test button to test battery and proper functioning of HV detector.
- ✓ Powered by a single 9V battery type (6F22), easily replaceable on field.

# HV 50, 132, 220 & 440 kV

## High Voltage Detector

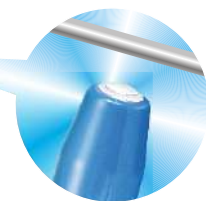
The Motwane HV Detector series provide an exceptional combination of user comfort and safety in one electrical safety device. The optimum LED layout, integrated audible signals and innovative self-test features form the basic elements on all voltage detection equipment types. HV Detector series are designed in contact type and non-contact type. The HV detectors are used to check for the absence or presence of voltage on medium and high voltage switchgear, transformers or overhead lines – electrical safety is imperative in all areas of power transmission and distribution at all voltage levels including MV, HV and EHV up to 440kV. It is available in FRP Telescopic Rod/FRP sectional hot stick. 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 before carry any operations. HV Detector series is easy to use, hence jobs get done more quickly and safely. Reliably detecting high voltage on distribution and transmission voltage power lines is critical jobs performed by electric utility linemen.



## Applications

Useful for Utility, Industrial, Railway and for Mine Safety applications like following.

- Non-contact detection of live voltages.
- Check and detect live high voltage cables.
- Trace live wires
- Detect residual or induced voltages.



Non Contact Type Probe.



LEDs for Visual Indication  
Universal Link

**Technical Details**
**High Voltage Detector**
**Technical Specification**

Model	HV-50	HV-50P	HV-132	HV-132	HV-220	HV-440
<b>Voltage Range</b>	3kV - 50kV	240V - 36kV	11kV - 132kV	66kV - 132kV	33kV - 220kV	66kV - 440kV
<b>Type</b>	Non Contact	Non Contact	Non Contact	Contact	Non Contact	Non Contact
<b>Sensing Distance</b>	1mtr - 3mtr - 5mtr	1mtr - 3mtr - 5mtr	1mtr - 3mtr - 5mtr	1mtr - 3mtr - 5mtr	1mtr - 3mtr - 5mtr	1mtr - 3mtr - 5mtr

**Power Specifications**

<b>Current Consumption</b>	30mA maximum
<b>Battery Low</b>	7.2 V Nominal
<b>Battery</b>	9V / Battery type 6F22 or equivalent
<b>Visual Indication</b>	High Bright Red LED's flashing
<b>Audible Indication</b>	Buzzer beeps Loudly

**Electrical Specifications**

<b>Insulation Resistance</b>	Greater Than 100MΩ by 1000V @ HV Detector
<b>Dielectric Strength</b>	220KV AC, 50Hz of complete assembly

**Environmental Specifications**

<b>Operating Temperature</b>	5°C to 50°C
<b>Humidity</b>	<85% RH non-condensing
<b>Storage Temperature</b>	10°C to 60°C <85% RH non-condensing

**Universal Link**

<b>Material</b>	Glass Filled Nylon
<b>Length</b>	95mm Approx

**Insulated Stick**

<b>Material</b>	Fibre Glass (Sturdy & Rugged)
<b>Length</b>	Telescopic Extendable length.

**Physical Specifications**

<b>Length</b>	250mm Approx.
<b>Diameter</b>	108mm Approx
<b>Weight</b>	510 gm Approx

**Accessories Standard**

■ High voltage detector	: 01 No.
■ Universal Link	: 01 No.
■ Instruction Manual	: 01 No.
■ Rod Assembly	: 01 No.
■ Test & Calibration Certificate	: 01 No.

**Accessories optional**

■ Telescopic Rod Assy With Carrying Case, 1.23mtr
■ Telescopic Rod Assy With Carrying Case 3mtr Long
■ Telescopic Rod Assy WITH Carrying Case 5.5Mtr
■ Hot Stick with Carrying case length 4 meter
<b>** Note:</b> Accessories (Any one rod with device as per customer requirement)

**ORDERING INFORMATION**

Product	Order Code
<b>HV-50</b>	<b>109130010</b>
<b>HV-50P</b>	<b>109135010</b>
<b>HV-132</b>	<b>109131010</b>
<b>HV-132 - Contact</b>	<b>109142010</b>
<b>HV-220</b>	<b>109132010</b>
<b>HV-440</b>	<b>109133010</b>
<b>with Standard Accessories</b>	

**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 includes continuous improvement of its product. 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°C ± 5°C & 55% RH ± 10%.