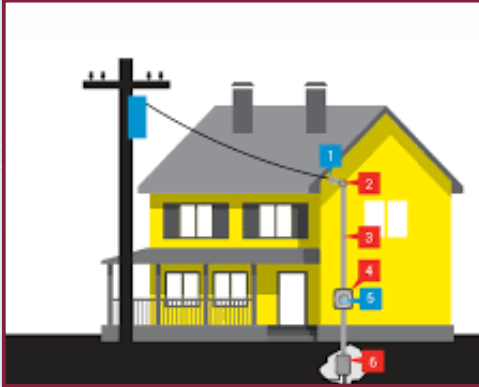


# VOLTCHK

NON CONTACT HIGH VOLTAGE AND INDUCED VOLTAGE DETECTOR

## SINGLE EQUIPMENT FOR ALL VOLTAGE RANGES



**LOW VOLTAGE**  
230V to 11kV



**MEDIUM VOLTAGE**  
11kV to 66kV



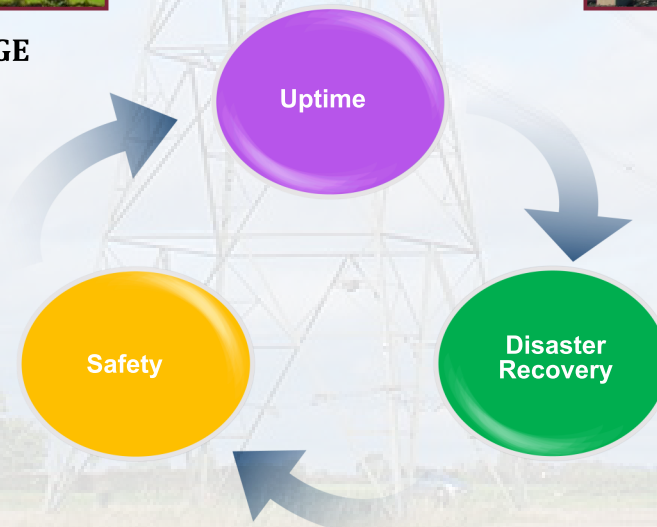
**HIGH VOLTAGE**  
66kV to 132kV



**EXTRA HIGH VOLTAGE**  
132kV to 400kV



**ULTRA HIGH VOLTAGE**  
400kV to 765kV



Version - 03

## MODEL : VOLTCHK T5



## MODEL : VOLTCHK D5



## NON-CONTACT HIGH VOLTAGE DETECTOR

### AC VOLTAGE AND INDUCED VOLTAGE DETECTION

VOLTCHK is a variable non-contact voltage detector, A proximity device which detects the presence of an alternating electric or electromagnetic field. It is used by industry professionals for live or dead voltage determination, of outdoor overhead or underground at URD test points. A proximity device to determine live or dead situations and then as a touch device to verify the source has physically reached the zero AC field. This is the only equipment capable of testing all voltage from AC 230V to 765kV from a distance, beyond arcing zone.

### Key functions

- Detection of Voltage presence on Overhead Power line.
- Detection of Voltage presence in underground cable at URD test point.
- 2 in one function. Can also be used to detect level of induction voltage present in the uncharged line.
- Unique variable AC voltage ranges, detection from beyond arcing zone.
- High Intensity flashing Light & Buzzer Indication
- Sensitivity Adjustment
- Suitable for Indoor & Outdoor Operation
- Automatic Continuous Inbuilt Self Check function
- Universal Sunrise Connector
- Type Tested from CPRI as per IEC Standards.
- Wide Voltage source ranging from 230 V to 765kV AC.
- Continuous self-testing signal to avoid ambiguity.
- Model T5 and D5 are available for Transmission and Distribution respectively.

## APPLICATIONS OF NON CONTACT VOLTAGE DETECTOR

### SUBSTATION

High Voltage Detector is designed to detect live/Induction voltage presence on overhead line (bare conductor), busbars, Isolators & other Electrical apparatus in live switchyard.

The High Voltage Detector Probe having unique capability to warn the user of the presence of high voltage from a safe distance and must be exceptionally sensitive. This equipment is constructed in such a way so as to avoid any danger to the operating personnel during use and under normal conditions.



## POWER LINE

Non-Contact High Voltage Detectors are used in Power Line routine O&M maintenance & safety practices to ascertain the zero-voltage presence on the Overhead line before starting the maintenance works.

Taurus Non-Contact Voltage detector is designed to detect any AC live voltage and electromagnetic/Induced voltage presence on Overhead Transmission Lines from 230V to 765kV level.

Non-Contact Voltage detector comes with a universal Hot stick to be able to connect with ease.

A wide range of voltage selector switch, helps user to confirm the level of the Induced voltage presence after switching off the Line.



TEST USING MODEL T5



TEST USING MODEL D5

## USAGE

The VOLTCHek can be attached to an insulation stick (Hot Stick), This increases range and minimal safe distances that are required for high voltages. To attach a VOLTCHek to an insulation stick, attach to the head of the stick using the sunrise (universal) fitting and secure tightly at the angle required

1. Hold the unit in the hand by the handle below the sunrise fitting.
2. Turn the unit on to the 230volt switch setting (the first switch setting). This will allow for the most sensitive voltage detection.
3. Listen and watch for the Self Testing function which will start automatically.
4. To Verify the tester using outside influences:
  - Place the tester against live power outlet or equivalent above 230 volts AC.
  - Use the VOLTCHek to test the activation of the unit on the 230 volt setting.
5. Hold the top side to the power source under test, a continuous tone will be heard indicating live voltage.
6. If a tone is not heard at this point on the 230V setting move the tester closer to the conductor under test.



## VOLTCHek



VOLTCHek is a safety device designed to Detect any AC voltage and Induced voltage presence on live conductor from 230V to 765kV AC 50Hz overhead Power lines in HV and EHV switch yards, Distribution lines, Transmission Lines and Power plants.

## SPECIFICATIONS

- Current Consumption : Less than 25mA for Max Selection
- Low Battery Voltage : <5V
- Battery Low Indication : Available with Separate LED Indication
- Battery Type : 9V Alkaline
- Visual Indication : LED
- Audible Indication : Buzzer
- Operating Temperature : 0°C ~ 55°C
- Humidity : 95% R.H. @ 40°C
- Storage Temperature : -10°C ~ 50°C
- Insulation Resistance : 500MΩ/kV
- Dielectric Strength : upto 800kV AC, 50Hz
- Type of Sensor : Proximity
- Self Test Function : Automatic & Continuous
- Universal Link : Glass filled Nylon
- Selectable Test Voltage Range : 230V-6.6kV-11kV-25kV-33kV-66kV-132kV-220kV-400kV-765kV (Model: VOLTECHEK T5)
- Selectable Test Voltage Range : 230V-6.6kV-11kV-25kV-33kV-66kV-132kV (Model: VOLTECHEK D5)
- Length of the Link : 95mm
- Length of Insulated Stick : 7m when fully expanded (Model: VOLTECHEK T5) (Telescopic Hot stick)
- Length of Insulated Stick : 5m when fully expanded (Model: VOLTECHEK D5) (Telescopic Hot stick)
- Dimension : 145mm (L) x 105 mm(W)
- Diameter : 65mm
- Weight - Device : 250 gms
- Weight - Telescopic Rod : 3kg for 5m & 5kg for 7m
- IP Rating : IP 54
- Proximity Detection- Induced Voltage : Available with separate voltage selection steps

### CAPABLE OF DETECTING FROM SAFE DISTANCE :

HV Line Voltage	Safe Detection Distance in meters
765 kV	5
400 kV	4
220 kV	2
132 kV	1
66 kV	1
33 kV	0.5
25 kV	0.5
11 kV	0.2
6.6 kV	0.2
230 V	0.05

## HOT STICK SELECTION - OPTIONAL (GROUND OPERABLE WITH TIP LOCK) MAKE : UTILITY SOLUTIONS USA



SIZE		CLOSED LENGTH	NO. OF SECTIONS	WEIGHT
55 FT.	16.8 m	69.5"	12	25 lbs 4 oz
50 FT.	15.2 m	68"	11	20 lbs
45 FT.	13.7 m	66"	10	16 lbs 8 oz
40 FT.	12.2 m	65"	9	13 lbs 8 oz
35 FT.	10.6 m	63"	8	11 lbs
30 FT.	9.1 m	62"	7	8 lbs 14 oz
25 FT.	7.6 m	60"	6	6 lbs 14 oz
20 FT.	6.2 m	58"	5	5 lbs 3 oz
16 FT.	4.9 m	56"	4	4 lbs

## HOT STICK SELECTION - OPTIONAL (GROUND OPERABLE WITH TIP LOCK) MADE IN INDIA



SIZE		RATED UP TO	NO. OF SECTIONS	WEIGHT
23 FT.	7 m	765 kV	4	5 kg
23 FT.	7 m	400 kV	4	5 kg
16 FT.	5 m	66 kV	3	3 kg



Innovative Technologies  
An ISO 9001 : 2015 Company

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