

Empowering Energy, Enhancing Safety

**ELECTRICAL TESTING,
MEASURING, SAFETY &
CONDITION MONITORING**

Electrical Safety
High Voltage & Live
Line Working
Equipment
And Tools



Electrical
Safety
Helmet
Mounted
Voltage
Detector



Vacuum
Tester



High Voltage &
High Current
Test Equipment



Earthing Cables
& Clamps



(Electrical Safety, Live Line Working, High Voltage High Current and Condition Monitoring Equipment)

Overview

HVTI is a leading Indian manufacturer specializing in Electrical Testing, Condition Monitoring, Measuring, and Electrical Safety Equipment for Power Plants, Transmission & Distribution Systems, R&D Institutions, and Heavy Industries.

With over three decades of industry expertise, HVTI has become a trusted name in the Indian power sector, delivering reliable and innovative solutions. We design and manufacture a wide range of high-voltage testing and monitoring systems, along with turn-key solutions for setting up electrical laboratories — from concept to commissioning.

Our facility houses a fully equipped in-house High Voltage Test Laboratory, supported by precision test and calibration equipment to ensure the highest standards of quality and reliability.

HVTI is ISO 9001:2015 certified, reflecting our commitment to consistent quality, customer satisfaction, and continual improvement.

Industries We Serve: Power Generation, Transmission & Distribution Utilities ,Steel & Heavy Industries, Railways & Metro Electrification, Research & R&D Institutions, Switchgear & Electrical OEMs, EPC & Infrastructure Contractors, Renewable Energy & EV Infrastructure.

For more information about our factory and testing facilities, please visit www.hvti.in.



CONTENTS

ELECTRICAL SAFETY EQUIPMENT

Insulated Sticks & Operating Rods
 Discharge Rods & Portable Earthing Equipment
 Soft Discharge Rods
 Portable Earthing Equipment
 3 Phase type and 1 Phase Type Grounding Equipment
 Low Voltage Discharge Rods
 Rescue Sticks
 Drop Out Fuse Tool and Operating Rods
 Phasing Out Sticks
 High Voltage Detectors

HIGH VOLTAGE AND HIGH CURRENT TEST SYSTEMS

High Voltage AC Test Kits
 High Voltage DC Testing Kits
 Primary Current Injection Kits
 Secondary Current Injection Kits
 DC Earth Fault Locator
 Vacuum Circuit Breaker Bottle Test Sets

PARTIAL DISCHARGE TESTING EQUIPMENT

AE-150 Partial Discharge pinpointing system for Large Transformers
 XDP-II Portable Partial Discharge Detector
 PD-LT Partial Discharge Detector for Overhead applications
 ULD-40 Ultrasonic Corona & Arcing Detector

SUB-STATION TESTING EQUIPMENT

ART-3D Automatic Transformer Turns Ratio Testers
 CTTx2 & CTTx5 Current Transformer Testers
 WRT-10D Winding Resistance Tester with Demagnetisation
 DOC-3 - Distribution Transformer Tester
 LRM-10 / DRM -10A -High precision digital 10A micro-ohm meters
 SPI-III - True Phase Identification System

INFRARED THERMAL IMAGING CAMERAS

D300 / D600 Handheld Infrared Cameras
 Mt256 / MT384 Mobile Thermal Camera Module
 S1 Smart Thermal Imaging Camera
 G-96 Professional Infrared Camera
 V Series – SF6 Gas Leakage Detection Camera

ONLINE CONDITION MONITORING FOR SWITCHGEARS, TRANSFORMERS & CABLES

PD Annunciator - Online Real-Time PD Alarm System
 Online Continuous Thermal Imaging (APC)
 Real-Time Wireless Temperature Monitoring System

ELECTRICAL TEST BENCHES & MOTOR TEST SYSTEM

Custom Built Test Benches and Solutions

ELECTRONICS DESIGN & DEVELOPMENT

Electronics Equipment Design, Development and Production

Electrical Safety Equipment



Insulated Sticks

- Available in wide range for voltages from 1KV to 765KV in
- Lengths available from 500mm to 9 Meters
- Add on Type and Telescopic Configurations
- Hollow Type as per IEC 61235 and Foam Filled Type as per IEC 60855 available
- Universal Sun Rise Connector available



Insulated Sticks

Triangular Hot sticks

Our Triangular Hot Sticks are designed for superior control, safety, and torque resistance in live-line operations. The unique triangular profile ensures a non-rolling, ergonomic grip, enhancing maneuverability when operating high-voltage equipment. Built from electrically tested fiberglass, they offer exceptional dielectric strength and mechanical durability. Equipped with unidirectional locking heads, they provide secure tool attachment for tasks such as switching, testing, grounding, and installing line hardware.

Key Features:

- Triangular fiberglass profile for enhanced grip, control, and anti-roll safety
- High dielectric insulation, compliant with IEC 60855 and IEC 61235
- Unidirectional or universal head lock for safe tool and accessory engagement
- Compatible with voltage detectors, clamps, clips, hooks, and other operating tools
- Lightweight yet rigid, designed to withstand torsional stress during operation
- Available in custom lengths from 3 m to 15 m, with sectional or telescopic options



Triangular Hotsticks

Discharge Rods and Grounding Equipment

These are used to discharge dead systems and installations having limited fault levels. These are highly efficient for Discharging electrical equipment having high Capacitances like Capacitor Banks and Cables and equipment having high Inductances like Reactors and Transformers. Controlled Discharging is achieved using our special Non Inductive Carbon Discharge Resistances. Discharge Rods are available for voltage ranges from 11KV to 765KV.

The Discharge Rods/ Portable Earthing Equipment offered by us are Type Tested in accordance to Standards IEC 61235, IEC 61230, IEC 60855, IEC 60060, IS 16622, IS 13770, IS 2071

Soft Discharge Rods with Built in Carbon Discharge Resistor HVTI-DR Series

- Available for Voltage Ranges 11KV, 33KV, 66KV & 100KV
- Inbuilt Carbon Discharging Resistor in various ratings
- Direct Discharging and Controlled Discharging Hooks Provided
- Various configuration of Cables from 6mmSQ to 35mmSq available



Soft Discharge Rods for with Removable Discharge Resistor TP-DR Series

- Available for Voltage Ranges 11KV to 765KV
- Removable Carbon Discharging Resistor in various ratings which can be replaced with Copper Hook also for hanging
- Direct Discharging and Controlled Discharging Hooks Provided
- Various configuration of Cables from 10mmSQ to 35mmSq available



Portable Earthing Equipment (Discharge Rod) for High Fault Levels : TP-PEE Series

Portable Earthing Equipment also called as Discharge Rods are safety equipment designed for discharging & grounding of dead equipment. The system is designed for high fault levels from 4.7KA to 40KA per second or higher so that even if during shut downs, when technicians are on the job, by mistake if the supply/feeder is switched ON, the Portable Earthing Equipment saves human life as well as equipment under maintenance. Special Line End & Earth End Clamps along with operating socket and earthing lead are used for this equipment. The Line End Clamps, Earth End Clamps & operating sockets are made of very special aluminium alloys which can withstand high short circuit currents. Portable Earthing Equipment is Type Tested as per IEC 61230 / IEC 61235 / IEC60855. The earthing cables are tested for short circuit ratings as per IEC / IS standards

Insulated sticks are available in lengths from 1 m to 7.75m in Add on Type or Telescopic configurations

Special Flexible Grounding Cables are available from 10mmSq to 95mmSq. Copper or upto 150mmSQ Aluminium, The Earthing Cables are available in Transparent or bright coloured insulation. The Earthing Cables conforms to IEC 61230

Line End Clamps

Line End Clamps are available in various designs and configurations for clamping on different types of ACSR Conductors and Tubular Bus Bars. These are suitable for fault currents upto 40KA/1 sec



Special Earthing Cables

We offer a broad range of special grounding cables. Cables are available from 10mmSQ to 95mmSQ Copper Flexible and from 25mmSQ to 150mmSQ Aluminum flexible. This category of Grounding cables are designed to withstand high fault levels from 4KA to 40KA. Available in Yellog/Green, Transparent and Orange colours. The cables are designed and type tested in accordance to IEC 61230

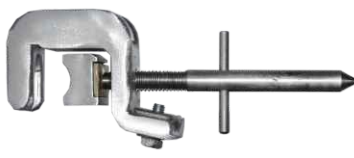


Earth End Clamps

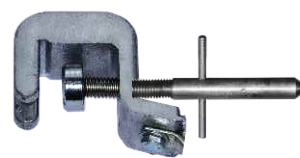
Earth End Clamps are available in various designs and configurations for clamping on Earth Bus Bars, Transmission Tower Structures, Tapered Bars and also for Fixed Ball Points. Suitable for clamping thickness upto 30mm and fault currents upto 40KA/1 sec



EE-30-F
With Spike End



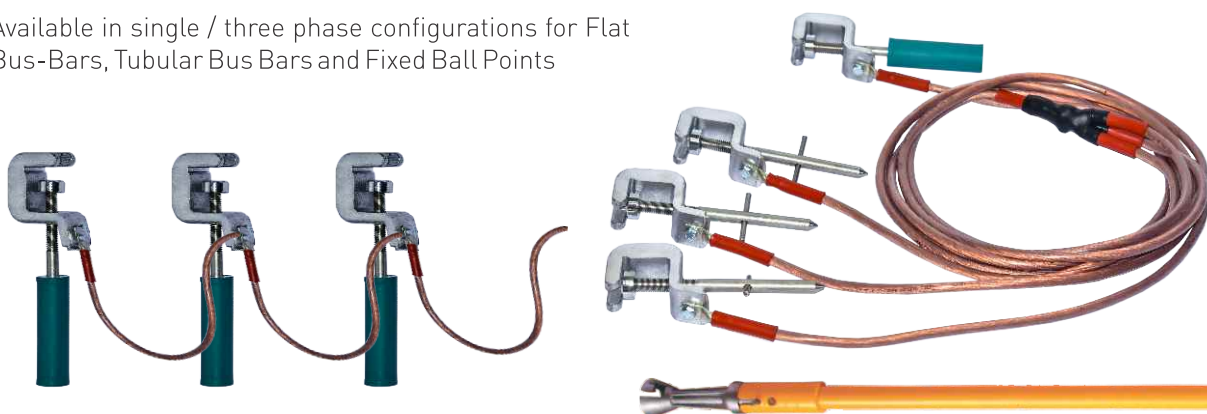
EE-30-R
With Swivel End



EE-30-B
With Ball Point End

Low Voltage Discharge Rods

Available in single / three phase configurations for Flat Bus-Bars, Tubular Bus Bars and Fixed Ball Points



Portable Earthing Equipment (Discharge Rod) – 3 Phase Type with 3 sets of Removable Line End Clamps/Cables

In this configuration clamps are applied from remote just by turning the insulated operating pole and the operator never comes in contact with any conductor, so it is highly safe system. Using the common operating pole, clamps are applied on each phase one by one. On top of Common Operating Pole an operating socket is provided using which one by one the Line End Clamps are applied and removed



Portable Earthing Equipment (Discharge Rod) 1 Phase Type with Line End Clamps / Cables Permanently Fitted on the insulated Stick

In this configuration the Line End Clamp is permanently mounted on the stick and cannot be removed. Therefore for Grounding a 3 Phase system 3 sets of Equipment with individual Clamps and Sticks would be needed



Rescue Sticks

Rescue Sticks also called as Rescue Hooks are used for the retrieval of victims of electric shock, safeguarding the life of the rescuer. These are required in all live line areas as part of Health & Safety risk assessment.

Features

- Rescue Hook Made Of Non-Conductive Insulated Handles of Finest Fiberglass Materials conforming to Insulation Level of 100KV/feet
- Hardened Steel Hook with coating provided in various sizes from 400 to 500mm Dia to grip around the waist of victim for easy retrieval
- Rescue Sticks are available; in Lengths from 1.2 meters to 3 meters
- Provided with Rubber Foot, Safety Stopper and Rubber anti slip grip
- Insulated Sticks Conforming to IEC 61235, IEC 60855, IS 13770



Drop Out (DO) Fuse Operating Rods

The DO (Drop Out) Fuse Operating Rod Consists of F Class Insulated Operating Rod with DO Fuse Gripping attachment. These are used for Operating, Fitting and Retrieval of overhead DO fuses remotely from ground Level.

Features -

- Available in Lengths upto 7.5 M
- Spring Loaded Fuse Catcher, Fuse Operating Lever and Fuse Jaw for Fitting and Retrieval of DO Fuses
- Adjustable Length of Fuse Claw tool to suit various sizes of DO Fuses
- Insulated Sticks Conforming to IEC 61235, IEC 60855, IS 13770

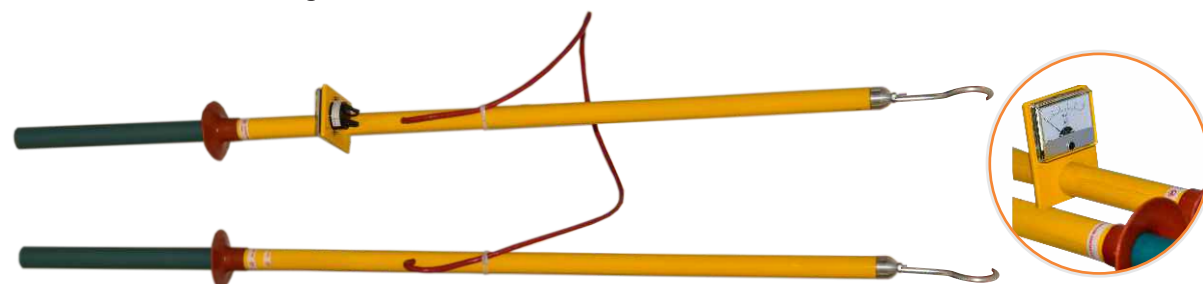


Phasing Out Sticks

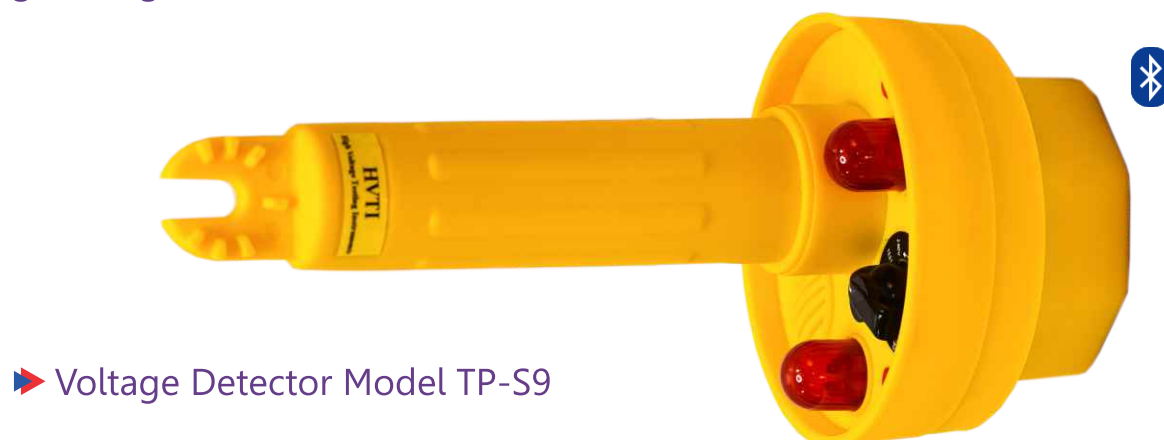
Phasing Out Sticks are used to phase out two sources of supply directly at high tension level without the use of Pts.

TYPE	: Bipole Type Hand Held with KV Meter
RANGE	: 15KV AC & 36KV AC Models (Covering 0 to 15/36KV)
NO. OF POLES	: 2 (Two)
INDICATION	: Direct Voltage read out on the KV meter. (When two sources are in Phase, potential difference is minimum & when two voltage are out of phase, potential difference is maximum)
PROTECTION	: Inbuilt HV Protective Resistors against shorts and grounds
CARRYING CASE	: Padded Nylon or Hard carrying case for storage and transportation.

Insulated Sticks Conforming to IEC 61235, IEC 60855, IS 13770



High Voltage Live Line Detector



▶ Voltage Detector Model TP-S9

HVTI Offers next generation High Voltage Detector TP-S9, one of the most advanced voltage detector. Voltage Detectors are very important and essential Safety Equipment for engineers and Technicians working in Medium Voltage and High Voltage Installations.

This comes handy as one of the most important Equipment for warning personnel working in High Voltage establishments to rule out presence of Voltage/Charge so that possibility of accidents can be minimized.

FEATURES :-

- ▶ High Intensity Light & Sound Indication
- ▶ Operates in Contact as well as Non Contact Modes
- ▶ Sensitivity Control in various steps available in Voltage Ranges from 240V to 765KV
- ▶ Automatic Continuous Inbuilt Self-Test Function and Battery Test Function
- ▶ Directional Voltage sensing capability
- ▶ Uses easily available 1.5V aa size Battery as well as Universal "C" Size R14 Battery
- ▶ Universal Sunrise connector, fits all the Universal Connectors
- ▶ Rugged Construction IP66 Weather proof and Shock and Vibration compliance

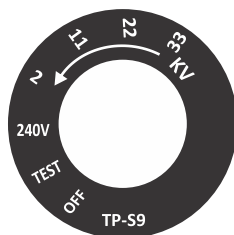
APPLICATIONS :-

- ▶ Safety tool for Engineers and Linesmen while working in Low Voltage/Medium Voltage and Extra High Voltage installations
- ▶ Identifying Live Conductors/Objects
- ▶ Suitable for Indoor & Outdoor Operation applications
- ▶ Checking Induction Level Fault finding in unshielded cables.
- ▶ Tracing live cables above and below ground.
- ▶ Working in Indoor Low Voltage/Medium Voltage Panels
- ▶ Working in High Voltage and Extra High Voltage Sub-Stations, Distribution/Transmission Lines

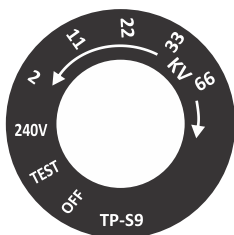
Compliance To Standards:-

- ▶ CE CERTIFIED
- ▶ CISPR 11 (Radiated Emission)
- ▶ IEC 61000 (Electrostatic Discharge Immunity, Magnetic Field Immunity, Pulse Freq. Magnetic Field Immunity)
- ▶ IEC 60028-2-6, IEC 60068-2-27 (Shock and Vibration resistance for mechanical strength)
- ▶ IEC 61243 (Environmental Tests, Leakage Current Test in Dry and Wet Conditions etc.)
- ▶ IEC 60529 (Encapsulation and Protection from Environment IP 66)
- ▶ IEC 61230, IEC 61325, IEC 60855, IEC 60060 (For Conformity of Insulated Sticks)
- ▶  Bluetooth version available which includes advanced features such as remote monitoring, live voltage alerts, GPS tracking, battery and device status management via mobile application or HVTI IoT web platform, offering enhanced safety and supervision for field operations.

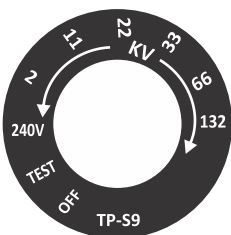
Standard Models



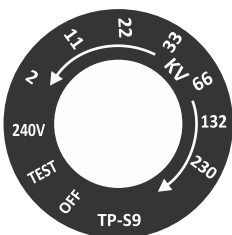
TP-S9-33



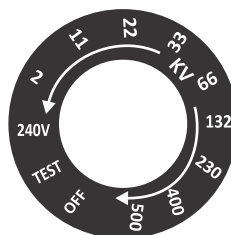
TP-S9-66



TP-S9-132



TP-S9-230



TP-S9-500

**OTHER CUSTOMISED
RANGES ALSO
AVAILABLE**



SPECIFICATIONS:-

Voltage Range :	110V to 765KV AC (check the Ordered Voltage Rating)
Light Source :	6 High Intensity Leds
Led Sound Source :	Piezo Electric Buzzer →95 DB @ 10cm
Operating Temp.:	-10 to +65 Deg C
Humidity :	Upto 95% Non Conensing
Batteries:	3xAA Size Pencil Cell or C Size R14 Batteries
Battery Life:	More Than 250 Hours In Idling Mode
	More Than 70 Hours In Indicating Mode
Weight :	(with Batteries) ←0.45kg
Dimensions	L= 26x12x12 cm
Accessories :	Supplied With Carrying Case Batteries

CERTIFICATIONS:-

Safety :	Detector: IEC 61243-1, Sticks: IEC 61235, IEC 60855, IS 2071
CE Certification	CISPR11: 2015+A1: 2016+A2: 2019
	IEC61000-4-2:2008, IEC61000-4-3:2020, IEC4-8:2009
Encapsulation :	IP66 Certified (IEC 60529)
Shock and Vibration :	Vibration 2.5g IEC 60068-2-6, Shock 15g IEC 60068-2-27

Accessories For Voltage Detector



Battery Chamber
S9BC



Sunrise Connector
S9SNC



Sunrise Connector
Screw S9SW



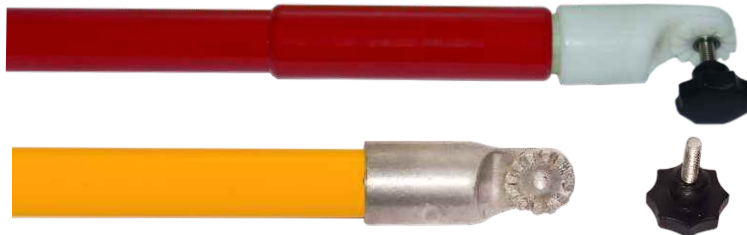
Carrying Case
S9CC



Battery - 3xR14
or 3xAA Pencil Cell



Battery Converter



Universal Sunrise Stick, Nylon Connector or Aluminium Connector



Connector For
Operating
Socket



HOT STICK OPERATION



HAND OPERATION



HVTI-HMD – Helmet Mounted Voltage Detector

- Compact & Lightweight: Under 80g for comfortable, hands-free use
- Voltage Detection Range: From 240V to 66kV+ for LT and HT networks
- Alerts: Dual LED visual warning + high-decibel buzzer
- Ready-Status Indicator: Confirms operational health and battery status
- Long Battery Life: 150+ hours of continuous operation
- USB-C Fast Charging: Quick and convenient power-up
- Rugged Build: IP66-rated for outdoor and harsh environments
- Mounting Options: Compatible with helmets, wristbands, or harnesses
- Ideal For: Power transmission, distribution, and substation personnel



High Voltage and High Current Testing Systems

High Voltage AC Testing Kits

HV Testing Kits are used for testing of Motors, Generators, Switchgears, Cables, Transformers and other electrical equipment. These are used for testing & commissioning of HV electrical equipment. High Voltage AC Testing Kits are available in ratings from 25KV to 300KV AC in various mA and KVA Ratings

Features :

- The kits are available with Automated as well as Manual Control Panels and Control Desks.
- Automated Controls have microprocessor based controls with touch screen interface and various programmable parameters.



Resin Cast Dry Type Test Transformers available in ratings from 25KV to 150KV. The transformers are highly compact and suitable for field testing requirements.

Oil Filled Test Transformers available in ratings of 50, 70, 100, 150, 200 & 300KV. The transformers are highly compact and have option of tertiary metering winding. Suitable for Laboratory or field use. These are also available in PD Free designs.



High Voltage DC Testing Kits

HV Testing Kits are used for testing of Cables, Switchgears, Generators, Transformers and other electrical equipment. These are used for testing & commissioning of HV electrical equipment. High Voltage DC Testing Kits are available in ratings from 15KV to 300KV DC in various mA and KVA Ratings.

Conventional HV DC Testing kit with Transformer – Rectifier Design are available in ratings from 15KV to 200KV and 10 to 200mA

Ultra Light Compact HV DC Testing kit with SMPS based Design are available in ratings of 60KV to 300KV with current ratings of 5mA



Model TP-605D (60KV, 5mA)

Model TP-1205D (120KV, 5mA)

Primary Current Injection Testing Sets

Primary current injection kits are used to test and commission Circuit Breakers, Bus Bars, CTs, Relays, MCCs, PCCs etc. These are also used for high current injection and simultaneously measuring voltage drops and hot spots in bus-bar joints, circuit Breaker Contacts etc.

Primary Current Injection Test Sets are available in current ratings from 500A to 10000A and in short time duty as well as continuous operation duty.



Controls are available in Automated as well as Manual versions. The automated controls also have features like CT ratio measurement etc.

Light weight portable kits of 1000A and 2000A with full load operation time of 3 minutes also available for field testing.



Secondary Current Injection Testing Sets

The Secondary Injection Test Sets are used to test static, attracted armature, induction type, thermal & directional relays & CTs etc. These are available in standard ratings from 30A to 200A. AC and DC Voltage outputs are also available as options. High resolution timer of 0.1mS and NO/NC relay interface are also provided for testing relays etc.



DC Earth Fault Locator

A precision tool for detecting ground faults in live DC battery systems without shutdown. Using a Pulser and Receiver, it injects a test signal to trace fault paths accurately, including high-resistance faults up to 100 k Ω (optional 400 k Ω). Ideal for substations, power station and industrial applications, it enables rapid fault location, minimizing downtime and improving system reliability.

Key Features:

- Locates resistive & non-resistive faults in live DC networks
- Pulser + Detector system for accurate fault tracing
- Compatible with DC systems up to 300V AC/DC
- Detects resistance faults up to 100 k Ω / 400 k Ω (optional)
- Supplied with probes, leads, indicator lamp & rugged carry case



Vacuum Circuit Breaker Bottle Test Sets

These compact testing kits are highly suitable to test integrity of VCB Bottles and Interrupters. The kits are microprocessor controlled which precisely analyses the Vacuum Bottles. These are available in standard ratings of 60KV and 80KV to test Vacuum Bottles upto 11KV and 33KV respectively.

Features :-

- Voltage Ranges Available 0-60KV & 0-80KV
- Fully Automatic Operation / Customisable Test Parameters
- 4.2" Touch Screen Display for Control and Parameters Display
- Lightweight & Portable $\leftarrow$ 13Kg with rugged strolley type design
- Conforms to IEC 61326, IEC60068-2-14, IEC60068-2-38, IEC60068-2-64, CISPR-11



Partial Discharge Testing Equipment

AE-150 Partial Discharge pinpointing system for Large Transformers

- Measures and Pin-points PD Location
- Live working on charged transformer
- Simultaneous processing of PD and 4 acoustic signals for de-noising
- Phase Sync for PrPD and Wireless communication with laptop
- UHF and HFCT sensors available for Electrical PD referencing
- High end algorithms for ease of use



XDP-II Portable Partial Discharge Detector

- Efficient PD Detector and Analyser for Transformers, CT, PT, Switchgear, Cable, LA etc.
- Portable easy to use system with high end capabilities
- Universal Equipment adopts various sensors like Capacitive Spatula ,HFCT, TEV, Acoustic Contact and Acoustic Airborn, Switchgear Sensor, Differential Sensor etc.
- Online and Offline Testing Capabilities
- Waveform capture and software for detailed analysis

PD-LT

Partial Discharge Detector for Overhead Applications

Applications :

- PD Detection in Cable Heads, Lightning Arrestors, Insulators, Bushings etc.
- Easy and safe use with Hot Stick
- High sensitivity capacitive sensor with wireless measurement readings
- Compact, lightweight and battery powered for maximum flexibility



PD-LTTM
Measurement module



PD-LTTM
Display module

ULD-40TM Ultrasonic Corona & Arcing Detector

- Ultrasonic detector for corona and arcing detection for predictive maintenance in electric utilities
- Built in acoustic sensor, Additional Parabolic Sensor with laser pointer and Contact type Acoustic sensor for Metal Clad Switchgears
- Suitable for Indoor Applications as well as Outdoor use
- Suitable for Electrical Inspections, General Mechanical Inspections and Pressurised vessel inspections



Sub-Station Testing Equipment

ART-3D Automatic Transformer Turns Ratio Testers

- One of the most versatile and accurate ratiometer in market
- Testing transformers in accordance to IEEE C57.12.90&IEC 60076 standards
- Test Voltage from 1V to 275V and ratio ranges upto 50000
- Tests secondary and tertiary windings in a single sequence, on all taps
- Real 3 phase test voltage output
- Manual and automatic tap changer control
- Touch screen display, works with gloves
- Easy data transfer, report creation & remote control from a computer
- Suitable for transformers upto 800KV



CTTx2 & CTTx5 Current Transformer Testers

- Various parameters of the CT like CT Saturation/Excitation, Knee Point (as per ANSI10/50 IEC 60044, IEEE 30, IEEE 45), Ratio, Polarity, Phase Angle and Burden are tested in a short time. All CT™ nameplate and equipment details are stored with the test result file.
- Built-in thermal Printer.
- Manual mode is available for trouble shooting and special diagnostic testing.
- Burden mode makes it possible to analyze the secondary circuit connected to the CT.
- Easy setup of test plans are created on the instrument.
- Automatic test report creation.

WRT-10D Winding Resistance Tester with Demagnetisation

- High performance winding resistance tester for power transformers and large motor applications.
- High Accuracy 0.1% of reading
- High resolution with 4 ½ inch display, 0.1 μΩ
- Large, Color LCD display Full QWERTY keyboard for easy data entry
- Large internal memory
- Reporting software automatically generates a finished report from PC
- Built-in thermal Printer Remote
- Tap Changer circuit Stabilized reading indicator Protection against over voltage transients
- Timed mode for logging heat run testing



DOC-3 - Distribution Transformer tester



- The NDB-DOC 3™ is a test instrument designed for distribution networks transformers from 5kVA to 3MVA
- Detects primary transformer short-circuit, open circuit, & secondary short circuits Visual and audible warning
- Designed to be operated without disconnecting the transformer's secondary windings from their loads.
- Powerful tool to check distribution transformers in quick and easy way

LRM-10 / DRM-10A -High precision digital 10A micro-ohmmeters

- Potable Ohmmeters for various applications of contact resistance measurement like in Circuit Breakers, Tap Changers, Cable/Bus-Bars, Earth Bond etc.
- Extremely accurate and repeatable readings
- Lightweight and portable micro-ohmmeter designed to measure very low resistances from 0.01 $\mu\Omega$ to 200 Ω .
- Most accurate in its category.
- Much lighter and handier than other equipment in its category
- Shock resistant, it is suitable for all types of applications: work site or laboratory
- The LCD display is equipped with a backlight to allow work in any conditions



SPI-III – True Phase Identification System

- Wide Voltage Range: Identifies phases from 40V to 1,200 kV.
- Contact & Non-Contact Phasing: Safe for all voltage environments.
- GPS Precision: Accurate phase ID over long distances.
- Preset Mode: One-touch setup with pre-configured settings.
- IP67 Rugged Design: Waterproof, lightweight, field-ready kit.
- Customizable Display: Editable phasors, labels, and orientation.
- Wireless Communication: Supports Wi-Fi/3G/LTE data transfer.
- Extended Battery Life: Up to 30 hours of field operation.



Infrared Thermal Imaging Cameras

D300 / D600 Handheld Infrared Cameras

- High-resolution IR detectors: 384×288 (D300) and 640×480 (D600)
- Thermal sensitivity down to $\leq 0.04^{\circ}\text{C}$ (D300) and $\leq 0.03^{\circ}\text{C}$ (D600)
- Wide temperature measurement span (approx. -20°C to $+600^{\circ}\text{C}$)
- Multiple imaging modes including IR, digital, Duo-Vision / Duo-Vision Plus
- Auto-focus via laser ranging and motorized lens for clarity and ease of use
- 3.5" capacitive touch display, image/video recording, and intuitive user interface
- Rugged design with IP54 protection for field use



Mt256 / MT384 Mobile Thermal Camera Module

- Compact infrared module with 256×192 or 384×288 resolution
- High-sensitivity VOx detector with 12 μm pixel pitch
- Temperature range: -20°C to $+550^{\circ}\text{C}$ | Accuracy: $\pm 2^{\circ}\text{C}$ or $\pm 2\%$
- Smartphone compatible: plugs directly into Android devices via Type-C port
- Supports spot, area, and ROI temperature analysis
- Digital output via Ethernet / SDK for easy integration in UAVs, robotics, and process monitoring



S1 Smart Thermal Imaging Camera

- Smartphone-based thermal camera with plug-and-play Type-C connectivity
- High-resolution IR imaging for precise hotspot detection in electrical systems
- Dual thermal/visual modes with adjustable palettes and emissivity control
- Real-time temperature measurement with spot and area tracking
- Compact, pocket-sized design for quick field inspections
- App-based image/video capture and instant reporting from mobile



AC Series Acoustic Camera

- Advanced acoustic imaging system for pinpointing air, gas, and vacuum leaks using sound visualization
- Equipped with a high-sensitivity microphone array to detect ultrasound and audible frequencies in real time
- Displays live sound maps over visual imagery for fast fault localization
- Ideal for leak detection, partial discharge identification, mechanical fault analysis
- Portable, user-friendly device with touch display, recording, and onboard analytics
- Suitable for industrial maintenance, power plants, compressed air systems, and predictive maintenance programs



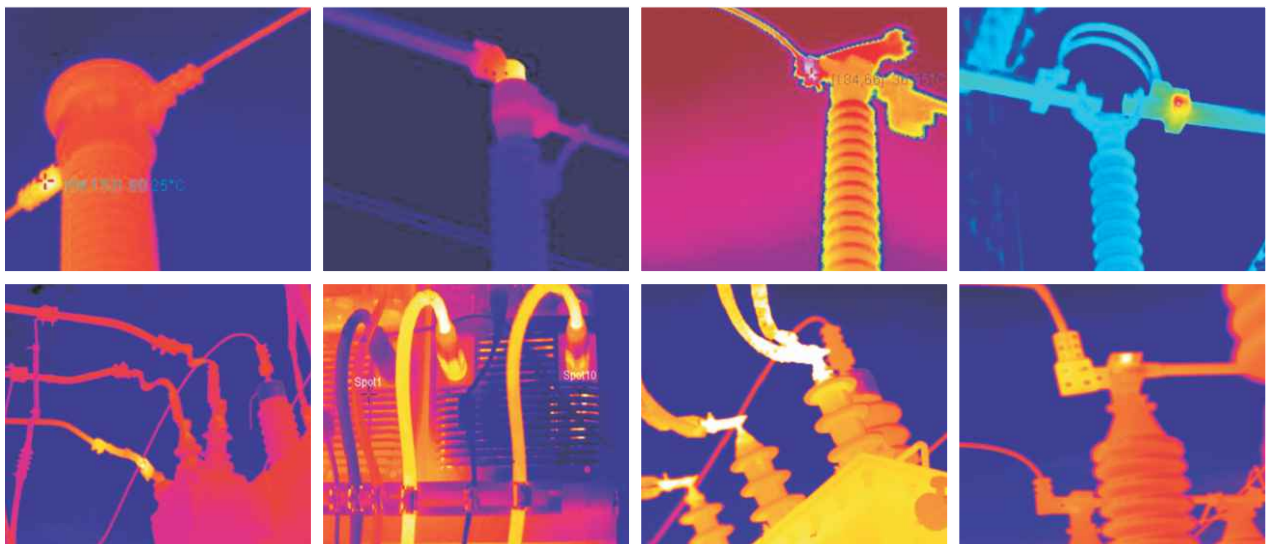
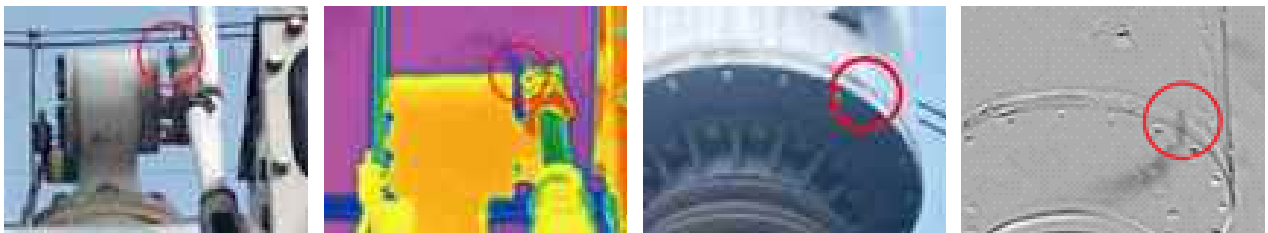
G-96 Professional Infrared Camera

- High resolution 640X480 detector
- 5 inch detachable LCD with remote control
- Measurement Range -20°C to +600°C, up to +2000°C (Optional)
- Thermal video recording
- Motorised Lens with Auto Focus
- Detachable LCD Screen with Remote Control
- Measurement tools and advanced analysis



V Series – SF6 Gas Leakage Detection Camera

- Capable of Detecting Gas Leakages of very small magnitude
- Gas detection and accurate temperature measurement
- Extremely high thermal sensitivity
- Highly useful for SF6 breakers and Gas Insulated Switchgears
- Highly efficient and capable to detect SF6 gas leakages in minimum time



Online Condition Monitoring for Switchgears, Transformers & Cables

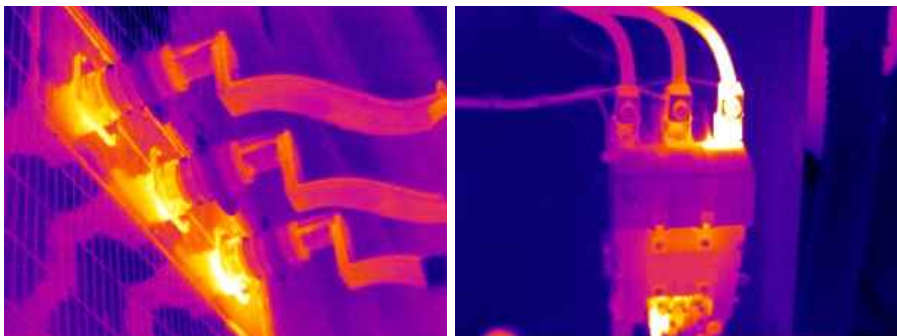
PD Annunciator - Online Real-Time PD Alarm System

- 24/7 Monitoring: Continuous PD detection in switchgear, RMUs, and transformers.
- Early Fault Detection: Prevents insulation failure and unexpected outages.
- Multi-Sensor Capability: TEV, ultrasonic, and HFCT sensors for full coverage.
- SCADA Integration: Modbus RTU communication for easy system connection.
- Remote Access: Live PD data and alarms via secure web interface.
- Noise Rejection: Filters interference for precise, reliable readings.
- Scalable Design: Upto 247 PDA Daisy-chain setup for multi-panel monitoring.
- Live Installation: Mounts on energized equipment without shutdown.



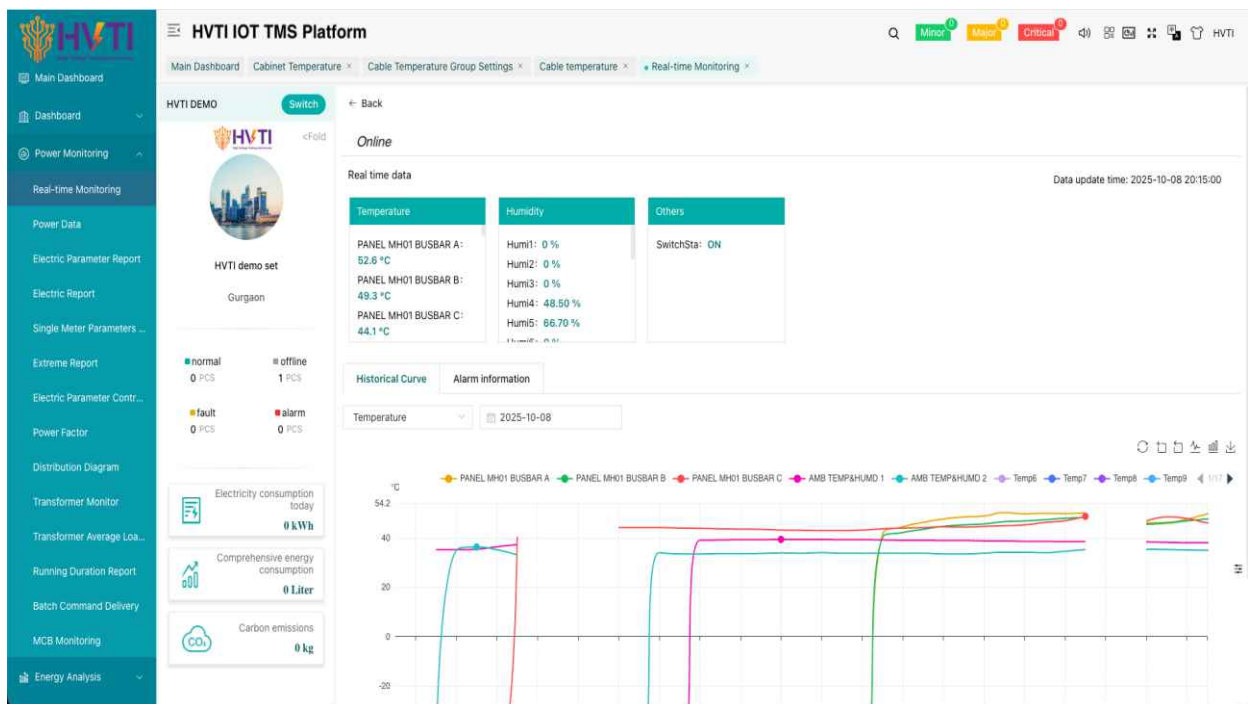
Online Continuous Thermal Imaging (APC)

- 24/7 Thermal Monitoring: Compact core for continuous industrial temperature tracking.
- High Sensitivity IR Sensor: 256×192 detector with $\leq 0.06^\circ\text{C}$ accuracy, -40°C to $+150^\circ\text{C}$ range.
- Dual Imaging: Integrated 1080p visual camera for clear fault verification.
- Wide Field Coverage: Captures large areas for comprehensive inspection.
- Ethernet Integration: Easy connection with control and automation systems.
- Smart Alarms & Analytics: Built-in temperature alerts for predictive maintenance.
- Rugged IP66 Design: Built for harsh sites like switchgears and transformers.



Real-Time Wireless Temperature Monitoring System

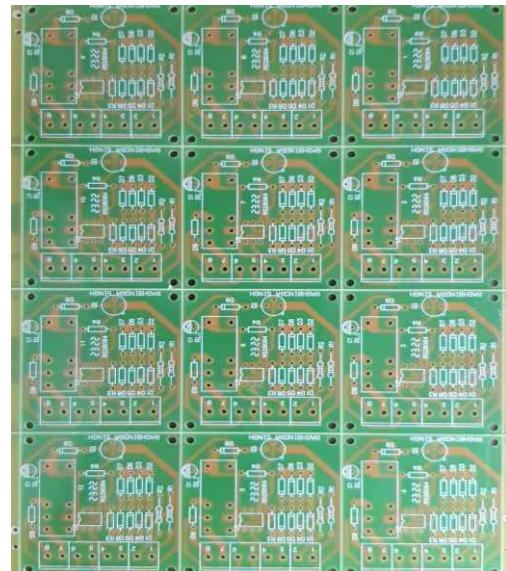
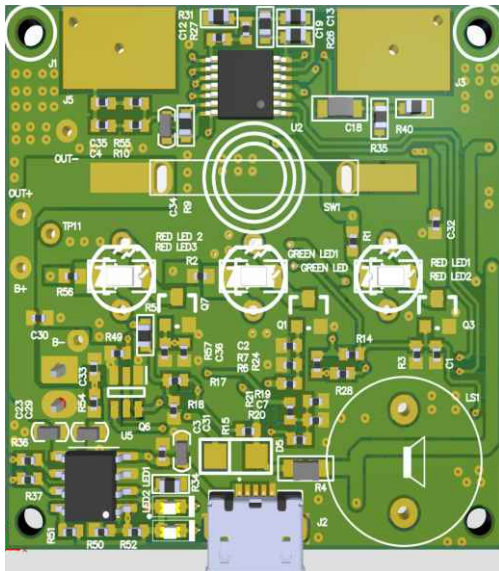
- Multi-Point Monitoring: Supports up to 230 wireless sensors for comprehensive coverage.
- High Accuracy: Measures temperature with $\pm 1^{\circ}\text{C}$ precision and humidity with $\pm 3\%\text{RH}$.
- Long Wireless Range: Stable communication up to 100m in open areas.
- Real-Time Display: HMI shows live temperature data and graphical trends.
- Smart Alarms: Visual & audible alerts for abnormal temperature rise.
- Data Logging: Stores up to 100 days of history, exportable via USB.
- CT Powered: No external power supply required, ensuring easy installation.
- Cloud Connectivity: Compatible with optional HVTI IoT Cloud Platform for remote access, alerts, and detailed analytics via mobile or PC.



Design, Development & Production of Electronics Assemblies, PCBs, Firmware and Software

HVTI team has vast experience in design and development of Electronics products & assemblies for measuring and control technology from concept, prototyping, final product development to production. Advanced softwares are used for the design & development. Capability is available for design of single layer PCB to 8 layers in PTH and SMT types.

We have been able to achieve a number of projects in close collaboration with our customers and supplied custom-made products or OEM-solutions in a timely and cost-effective manner.



Notes...

[illegible]

For detailed specifications please contact us...

Upgrading of equipment is a continuous process due to which the specifications may change...



DC Earth
Fault
Locator
DC-FL



Partial Discharge
And Condition
Monitoring
Test Equipment



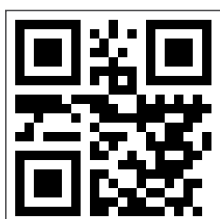
Transformer
Testing



Thermal
Imaging
Cameras



Test Bench



Website: <https://hvti.in/>



Linkedin: [hvti-private-limited](https://www.linkedin.com/company/hvti-private-limited)