SUPPLIER OF HIGH QUALITY TEST EQUIPMENT FROM INDEPENDENT, CREATIVE, CUSTOMER-CENTRIC PARTNERS.

**KNOWLEDGE, TRUST & EXPERTISE**

We are a US-owned and operated business established in 1998 by professionals with decades of industry experience. Our dedicated and skilled staff strives to provide the most accurate and precise test and measurement equipment and support available to our customers through our strategic partnership with industry leading manufacturers. This allows our customers to increase their product's quality, reliability and safety.

**COMMITMENT TO QUALITY**

ISO 9001 certified quality management processes highlight our commitment to quality. Our staff fully embraces the concept of quality through continual improvement. We strive to provide our customers a consistent and rewarding experience from our products and services and continued customer satisfaction is the ultimate goal of our quality management system.

**LOCAL SERVICE, SUPPORT & CALIBRATIONS**

We have built our reputation on providing superior services and assistance to our customers. Our A2LA ISO 17025 accredited calibration laboratory further highlights our commitment to providing the best services available. Our experienced service engineers span the globe, providing repair, calibration, installation and training for all the solutions we provide. Our goal is your satisfaction with every interaction with our company.
HV TECHNOLOGIES, Inc. provides the most complete and broadest range available of High Voltage Test Equipment and Service Solutions for the Utility and Electrical Power Industries. Our quality solutions have you in mind and are not based on a single technology, but are focused on capabilities and functionalities you need. Whether it's for testing the insulating properties of oil, cables, or HV transformers and accessories, HVT brings together resources from design, engineering, technology, and support to make your job easier. The people and partners behind HVT have the most industry experience and knowledge in the HV testing field today!

HV Test Equipment

HV Test Systems

HVT specializes in providing high voltage test systems for the generation of AC, DC, and Impulse Voltage and Current sources to meet your factory, laboratory, and on-site test requirements. Our product innovations and expertise provides your company with a solid return on investment.

Cable Testing Systems

Whether your need is for research, routine, laboratory, or on-site applications, we can provide a cable testing solution for you. Our quality test sets range from very low frequency (VLF) to power frequency and resonant test sets. HVT and its partner, BAUR, feature the most reliable VLF cable testing & diagnostic solution on the market, as well as very efficient and powerful cable fault location equipment.

Measurement Systems

HVT provides accurate and reliable HV measurement systems for test and diagnostic information used to assess the HV insulation of electrical generation, distribution, and transmission apparatus, as well as HV insulating materials and components. Whether it is the measurement and analysis of partial discharge (PD), tan delta, power factor, AC/DC voltage and current impulse signals, or transformer testing and electrical meter testing, we have quality solutions.

Oil Diagnostic Systems

Oil diagnostic systems provided by HVT can alert you to losses in the insulating and cooling properties of oil due to impurities and ageing. Consequences to these losses include damage and failures of equipment and systems, even catastrophic failures resulting in transformer fires. Our test solutions for insulating fluids extend the life of your electrical equipment.
Impulse Testing

Impulse Voltage Generators
Designed to generate impulse voltages simulating lightning strikes and switching surges. Different models are available depending on the maximum charging voltage and required stage energy.

Impulse Current Generators
Generators available for impulse current testing up to 200 kA.

Chopping Gaps
Sphere gaps or multiple chopping gaps can be used to create chopped lightning impulses.

Impulse Voltage Dividers
Used in combination with impulse voltage generators to test HV apparatus. Depending on the type of impulse voltages to measure, damped capacitive and resistive dividers are available.

HiAS 744 Impulse Analyzing System
State-of-the-art impulse analyzing system with 11-bit or 16-bit models boasting the highest measurement accuracy in the market. The optically decoupled front-end solution with rugged fiberoptic cables provides excellent interference immunity and operator safety.

Impulse Generator Control System
HVC 300 is the latest generation control system with a modern interface design for easy visualization and creation of impulse tests. Rugged fiberoptic cables connect to the HV hardware in the test field, protecting operators and equipment in the control room.

Contact HV TECHNOLOGIES, Inc. for additional product information.
PSK Tank Type AC or DC Transformers
Specially designed for long duration tests and testing components requiring stable voltages even if the load changes (heavy corona, wet and pollution tests) or when the test object is inductive. Transformers and bushings can also be designed for outdoor operation.

ACS / PSZ Cylinder Type AC or DC Transformers
Modular design allows for stacking of the transformers to reach very high voltages resulting in minimum space requirements. Increase test voltages in the future by adding further transformer units. Individual test transformers can be connected in series (cascade) to increase the output voltage or in parallel to increase the output current.

RSKF Variable Frequency Resonant Test System
Ideal test system with fixed core, variable frequency reactor for on-site testing of high voltage transmission class cables. The complete system can be housed in a standard 20 ft container and placed on a trailer.
- State-of-the-art frequency converter from 20 - 300 Hz
- Pure sinusoidal waveform at the system output
- Modular operation: series or parallel connection for higher voltage or current requirement
- System noise level ≤ 10 pC for sensitive PD measurements

Contact HV TECHNOLOGIES, Inc. for additional product information.
Transformer Testing

Distribution & Power Transformer Test Systems
Routine testing of transformers is made easy by integrating all tests into one unique system, fulfilling all IEC and IEEE standards.
- Designed for 1-phase and 3-phase testing
- Use of state-of-the-art frequency converters
- Highest measurement accuracy on the market
- Low system noise level allowing sensitive PD measurements
- Powerful operating software with intuitive interface and automated test sequences

TMS 580 Transformer Loss Measuring System
Computer controlled high precision measuring system for automated measurements of load loss, no-load loss, heat run, induced voltage, and zero sequence impedance.

Portable Transformer Test Equipment
- Winding analyzer
- Turns ratio meters
- Power factor / tan delta and capacitance testers
- Sweep frequency response analyzer
- Recovery voltage meter

Instrument Transformer Test Equipment
Highly accurate instrument transformer test systems to precisely measure current/voltage ratio errors, phase displacement, and excitation.

DDX 9121b Digital PD & RIV Detector
Modular design for simultaneous PD and RIV testing with the ability to test all transformer phases simultaneously.

Contact HV TECHNOLOGIES, Inc. for additional product information.
Dielectric Insulation Testing

DDX 9121b Digital PD & RIV Detector & PD Measurement Accessories
The latest detector in the DDX family that fits a wide range of PD detection applications. Equipped with digital filters, the detector allows for shifting of the frequency bandwidth so that measurements can be conducted in the least noisy range. The modular design allows for easy upgrades in the future and for 9 detectors to be operated simultaneously.
- AC & DC measuring modes
- Simultaneous PD & RIV readings
- PD site location on cables
- Internal multiplexer

Various Coupling Capacitors, Measuring Impedances, and PD Calibrators can be offered for a complete PD measurement system.

2823 High Precision Tan Delta / Power Factor Measuring Instrument
Designed for the measurement of very low dielectric losses of high voltage apparatus. The use of optically decoupled connection allows for complete galvanic isolation between test field and control room, guaranteeing the highest safety level for the test personnel. Can be used with existing standard capacitors or with Haefely's line of 3370 NK Standard Capacitors for the precise measurement of capacitance and tan delta.

5478 TOhm Meter
Digital multipurpose insulation resistance tester up to 5 kV, capable of measuring resistances up to 5 TΩ.

Mobile Insulation Diagnosis & Analyzing System
MIDAS 2881 & MIDAS micro 2883
Portable tan delta / power factor and capacitance testers for periodic testing of high voltage insulation systems. Designed to be used in the field or on the factory floor.

Cable Test Termination Systems
Specialized cable terminations for impulse and AC testing of power cables.

Contact HV TECHNOLOGIES, Inc. for additional product information.
Variable Inductance Resonant Test Systems
VI-RTS are applied for the generation of an AC voltage of fixed frequency (50 or 60 Hz) for high voltage routine, type, and development testing of capacitive objects.

Digital Partial Discharge Detectors & Monitoring Systems
Custom made PD detectors and monitoring systems designed for various DUTs and measurement technologies.
- PD quality tests on high voltage equipment according to IEC 60270
- UHF PD detectors and sensors for favorable signal-to-noise ratios
- Custom rack solutions with AC transformer and controls
- Temporary and permanent online PD monitoring of critical system components

Damped AC (DAC) Cable Test Systems
Compact and versatile systems for testing and diagnosis of medium voltage distribution and high voltage transmission class cables. The systems allow for PD measurement with source allocation along the length of cables as well as estimation of loss factor (tan delta).
BAUR is our official partner for cable testing & diagnostics, cable fault location, and insulating oil testing and is a world leader in each of its fields. Their testing and measurement technology prevents damage to distribution networks and power systems, allows for accurate planning of investments for maintenance, and locates cable faults as precisely and quickly as possible.

With over 70 years of experience, BAUR has become world renowned for their patented very low frequency (VLF) voltage generation for on-site cable testing and tan delta and partial discharge diagnostics, precise cable fault location techniques, and insulating oil breakdown testers and dissipation factor testers.

**truesinus® Digital Technology**

truesinus® is a voltage generation technology invented and patented by BAUR for the very low frequency (VLF) high voltage cable test equipment. This unique system with its truly sinusoidal voltage shape (less than 0.5% distortion) allows non-destructive VLF testing and provides a precise basis for highly accurate tan delta and partial discharge measurements.

**Lightweight and Portable VLF Testers with optionally integrated tan delta function**

Generators can be used for conducting tests on cables, cable sheaths, and electrical equipment according to the latest IEEE and IEC standards up to 57 kVrms. Tan delta measurements are a precise and non-destructive method to provide important information on the extent of ageing in cable insulation.

**Portable PD Test & Diagnostics System**

Using partial discharge measurement with source localization, direct allocation of partial discharge activity on cable segments, joints or cable terminations is enabled.

**Online PD Testing**

Detect existing partial discharge sources during normal mains operation in a reliable and cost-efficient manner.

Contact HV TECHNOLOGIES, Inc. for additional product information.
Van-mounted and Portable Cable Fault Location Systems
The Syscompact Series combines high voltage surge generators, or thumpers, with TDR measuring devices to enable a compact and fully integrated cable fault location system. This allows for efficient cable fault pre-location of low-resistive, high-resistive, and intermittent cable faults. All necessary coupling devices are fully integrated into the system to allow all proven pre-location methods.

Cable Sheath Testing and Fault Location System
Full automatic cable sheath fault pre-location based on a measuring bridge principle according to Murray and Glaser.

SIM/MIM Technology
Invented and patented by BAUR as the most reliable and precise cable fault pre-location on the market. Faults are reliably detected with only a single HV pulse, but with several TDR measurements, and are automatically evaluated and saved.

Time Domain Reflectometers (TDR)
Easy tools to quickly determine the length of cable or locate short-circuits or low-resistive faults. TDRs can also be used together with HV thumpers to locate high-resistive or intermittent faults.

Dielectric Oil Testers
Reproducible and repeatable breakdown voltage testing of mineral, silicone, and natural ester insulating oils up to 100 kV. Fully automatic test sequences, including ASTM D1816 and ASTM D877. Portable units include long-lasting batteries for on-site testing.

Cable Fault Pin-pointing Set
All in One Set for pin-pointing cable faults and cable sheath faults.

Dissipation Factor Oil Tester
Unique laboratory device to determine tan delta/power factor, specific resistance, and relative permittivity. Fully automatic test sequences, including ASTM D924 and ASTM D1169.

Contact HV TECHNOLOGIES, Inc. for additional product information.
titron® is a fully automatic, centrally controlled, and intelligent system designed for cable fault location and cable testing & diagnostics. The intuitive and easy concept, supported by the Smart Cable Fault Location Guide, provides the user automatically with all information and logical steps to perform an efficient and safe cable fault location and testing procedure. All functions and hardware are centrally controlled and monitored via the BAUR System Software 4.

The software algorithms of the Smart Cable Fault Location Guide analyze operator input and measured parameters to allow the titron® to provide the best solutions for the user. This results in direct recommendations and guides the user step-by-step throughout the complete fault location process.

Smart Cable Fault Location Guide
Menu-driven and user-oriented interface
- Step-by-step software guided workflow
- Windows based operation system (mouse and keyboard)
- BAUR GeoBase Map with integrated cable and street maps

BAUR Remote App
Direct operation of the titron® via smartphone or tablet for acoustic pin-pointing
- Indication of the pre-located fault position, titron®, and operator
- Efficient fault pin-pointing and ability to monitor and adjust voltage parameters while pin-pointing

Contact HV TECHNOLOGIES, Inc. for additional product information.
Solid Insulation Material Testing

Ideal for routine testing of vacuum pressure impregnated (VPI) and resin-rich (RR) insulation materials, as well as insulation tape-bands and paper insulation used in electrical machines, such as generators and motors, or transformers.

Accuracy up to ± 0.005%
Extremely reliable and long service life with estimated lifetime of 30+ years
No measuring drift or loss in accuracy over the lifetime of the instrument

Stationary Meter Test Systems
Developed for efficient testing of all electrical meter types. All measurements can be performed according to actual standards and the modular system allows for individual and customizable configurations for up to 40 test positions.

Portable Meter Test Systems
Specially designed for testing of meter installations on site. The functionality meets all requirements for comprehensive meter testing.

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HV TECHNOLOGIES, Inc. has built its high reputation over the years by providing superior services and assistance to our customers. Our goal is your satisfaction with every interaction with our company. HVT is able to deploy support services when you need it. Our talented and experienced field staff comes from a deep pool of service engineers that spans the globe, providing HV, EMC, and Software support for installation, training, and repair for all the solutions we provide. Our customers can have their equipment serviced directly from our service facility in Virginia.

installation / commissioning / training
repair
calibration
upgrade / modernization
supplies