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 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.

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Impulse Generators
Impulse testing systems are designed to generate impulse voltages that simulate lightning strikes and switching surges. The applications are defined by IEC, ANSI/IEEE, and other national standards. Impulse Test Sets are also available as current impulse generators used primarily for surge arrester testing. HV TECHNOLOGIES, Inc. has a long tradition of supplying impulse generators for HV applications as well as impulse test systems for the EMC, avionics, and military industries.

Resonant Test Sets and Conventional AC/DC Test Transformers
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. They can also be applied for on-site testing. In the case of large capacitive loads such as HV cables, we offer the economic solution of frequency-tuned resonant test systems. Conventional AC test transformers are ideal for applications with less power requirements (500 kVA and below). High voltage DC test sets can be used for HVDC cable and pollution testing applications.
Digital Partial Discharge Measuring System and Components
Partial discharge detection according to IEC 60270, as well as various IEEE and other standards.

- PD quality tests on high voltage equipment
- PD diagnosis on insulating materials
- Designed for on-site PD diagnostic tests as well as for manufacturing and research
- PD commissioning tests and maintenance tests on HV equipment
- Can be combined into a rack with AC transformer and controls

Ultrasonic Probe Ultradetect
Acoustic location of partial discharges. Whole substations can be surveyed and analyzed.

Digital Impulse Voltage and Current Measuring Systems by DR. STRAUSS
Remote control operation via fiber optic network from an external PC/laptop computer. Menu-driven control and data visualization program. Measurement and analysis of the impulse waveform of lightning and switching impulse voltages/currents during HV tests (peak value, front-time, time-to-half value, time-to-chopping).

HV TECHNOLOGIES, Inc. partnered with:

[Images of equipment and controls]
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.

**true-sinus® Digital Technology**

true-sinus® 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.

**DC Hipots & Combination AC/DC Testers**

Compact DC voltage test devices

**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.
Transformer Measurement Systems
Current/Voltage Transformers
Solid Insulation Material Testing

Power & Distribution Transformer Test Systems
ONE operation interface for the COMPLETE LAB
These systems are a revolution in the fully automatic testing of power and distribution transformers. A complete new development using state of the art intuitive software, operated over a big touch screen monitor offers unique user comfort. The accuracy of the system is unmatched, especially at low power factor by using EPRO's standard voltage and current transformers.
- Tests done according to the latest IEEE and IEC standards (Losses, Induced overvoltage, Zero sequence impedance, Heat run, Hipot, etc.)
- Possible to integrate additional tests and 3rd party equipment
- Fully automatic test report generation - All tests recorded in ONE integrated test report

Standard Current & Voltage Transformers
Used in transformer test fields, instrument transformer test fields, national metrological institutes, etc.
- 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

Solid Insulation Material Testing
*Tan delta, Capacitance, and Breakdown 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.

Contact HV TECHNOLOGIES, Inc. for additional product information.
Portable Meter Test Systems
Specially designed for testing of meter installations on site. The functionality meets all requirements for comprehensive meter testing.

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.

Stationary & Mobile Instrument Transformer Test Systems
Used for testing of current (CT) and voltage (VT) transformers with utmost accuracy. Systems can be operated manually or automatically.

Measuring Bridges and Electronic Burdens
Can be integrated into existing transformer test systems.

Precision Laboratory Systems
Comparators, reference multimeters, and power calibrating systems achieve excellent accuracy and reliability.

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