

Exciting TEST Products for the US Power Industry , from.....

"Power Industry Test Specialists"

PROG USA LLC

MV&HV CIRCUIT BREAKER Testing for Timing & Travel, Micro-ohms for contacts ("Ductor"), & CB Coil testing and CB power for commissioning



LIGHTWEIGHT Portable micro-ohmmeters, TRUE DC, Lightweight cables, 100A to 800A versions. 200A most popular in US. RMO-200G



Power Supply for CB Coil Testing for low Volt operability and CB commissioning. Measures coil resistance. SAT40A, POB40AD.



RMO200H low cost (<\$6K) handheld **micro-ohmmeter**. Up to 220 AMPS TRUE DC, ripple free current. Battery powered. Uses super capacitor technology and weighs 2 lbs.



CAT series of low cost Breaker timing/motion analyzers. 3, 6 or 12 timing ch. Many models under \$12K. Now with DRM ability and higher channel count. Both Sides Grounded test option. Built-in 200A Micro-ohmmeter on some models.



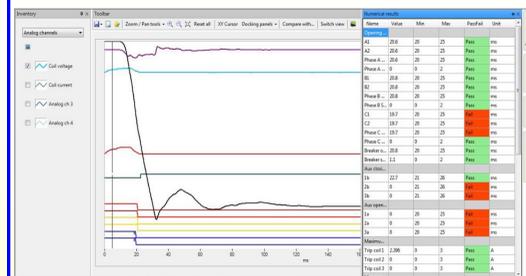
<< New CAT-P model does **first trip** testing plus..off-line. Lightweight and handheld.

Free PC software and free upgrades.

SF6 gas quality Testing



RH 973-SF6 for SF6 purity and **ultra-accurate** dewpoint (moisture content) via chilled mirror technology, plus SO2 plus convenient **recovery and pumpback of test sample**. Minimizes user frustration getting stable, repeatable readings which can save the sf6 gas owner big money. AC or batt. Universal fittings kits available.



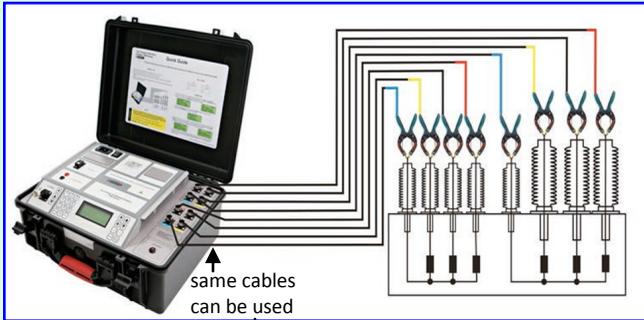
SF6 gas recovery, filling and drying



Enervac's GRU-7 and -8 are SF6 gas carts for recovery rates of 28 kg (62 lb.) 17cu.m. / hr & 40cu.m. / hr and are suitable for vacuum recovery, filling and drying of gas for up to **115KV and above** breakers. Particle removal filters included. Model 732A for highest Sf6 cart performance up to 500KV use.



POWER TRANSFORMER DIAGNOSTIC EQUIPMENT

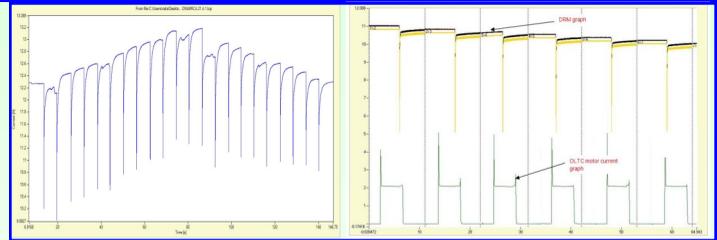


DV Power's Newest Diagnostic tester (**TWA-40D**) for 3 phase fast **winding resistance** test, inter-active graphic **dynamic OLTC test** (aka **LTC-DRM**) and **Auto-DeMag** function. TRUE 3 phase source for convenient and simultaneous H and L side testing, an industry first!!! Same leads can be used for TRT63A for true 3 phase TTR measurements on same transformer.

Lower cost model **TWA-25A** available as best six phase Winding Resistance Tester in US market. One climb for connection to all six phases. Effective, safe De-Mag included.



TRANSFORMER TTR for **true 3 phase** turns ratio testing. Fully automatic, measures turns ratio, phase shift, excitation current and **auto-detects vector groups** to verify nameplate vs windings. Three phase generate and three phase measure. PC software incl. Displays accurate phase readings, other TTR's cannot. Same cable set as TWA-40D for convenient 3 phase testing. TRT63A has 1, 8, 40, 100, 250 VAC ranges for CT thru to largest power transformers.



(DEM-60C) Stand-alone 3 phase Auto-automatic One -Touch **De-Magnetizer** for any size Power Transformers. SAFE. SIMPLE. Auto-step-down method ensures full de-mag.



Transformer Winding Resistance Tester (RMO-60TD) up to 60A and 60V of drive for fast testing of even largest power transformers, in combo Transformer Tester. 60TD includes effective single phase **dynamic graphic timing and resistance of OLTC's and regulators** and built-in **Tap Changer** control. PC software for control, diagnostics and report gen. Includes safe **Auto-DeMag** feature plus std auto-discharge !!

TRANSFORMER OIL DE-GASSING & DRYING



EHV Vacuum Oil Purifier System

Wide range of std and custom **transformer insulating oil** de-gassing, drying and unique regeneration systems. Uses high vacuum process to reduce water to less than 10ppm, soluble air to less than 0.25% and particulates to sub-micron levels. Fuller's earth filters are optional for removal of other contaminants.

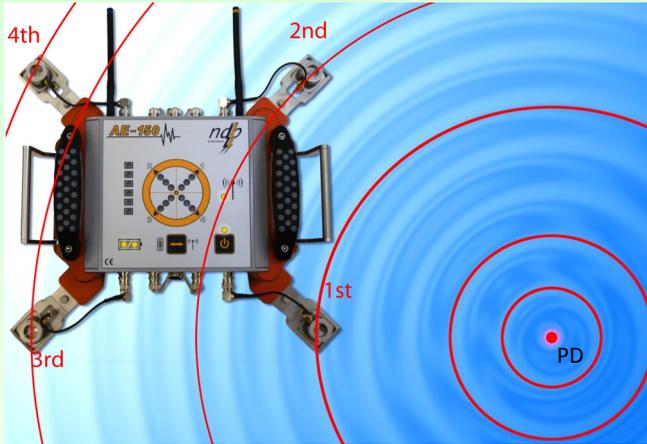


E575R Regeneration System

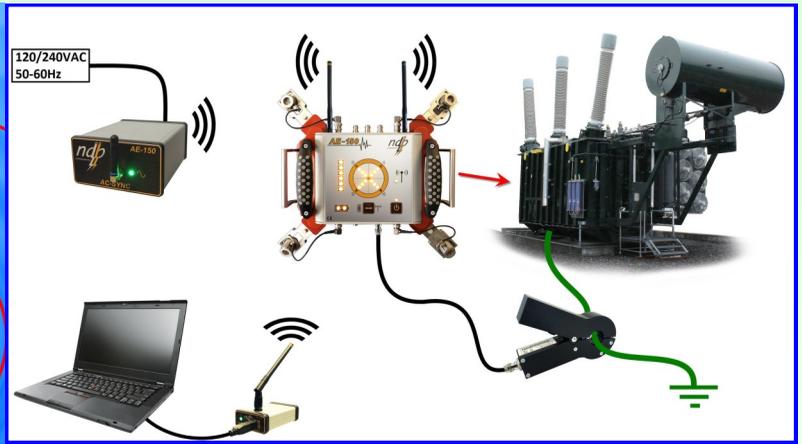


POWER TRANSFORMER DIAGNOSTIC EQUIPMENT

Partial Discharge location within any size power transformers is now easier with AE-150 survey system from ndb Technologies. It is mounted on live transformer tank using its powerful magnet that hold 4 acoustic sensors. Acquired data from multiple views is sent to Mirador-Tx software where all advanced positioning functions are implemented.



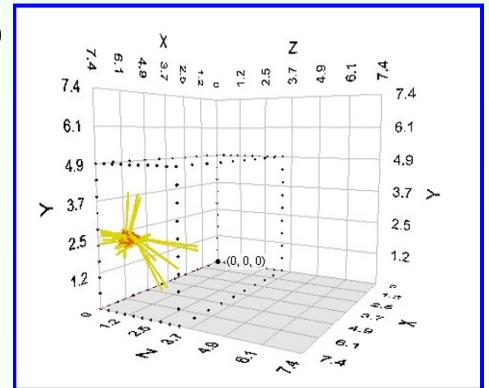
Acoustic detection theory using signals time of flight



AE-150 detection and system components

SFRA5000 Test set

Wide bandwidth (5Hz to 45 MHz) vs others in market and 10X better accuracy (0.02db). Gives graphic 'fingerprint' of mechanical aspect of transformer to detect issues during shipment or other vibration. No PC required in field.



Graphical PD location image report using smart data interpretation by vectors.

TRANSFORMER OIL DE-GASSING & DRYING



Enervac model EHV4000 (1050 GPH) oil purification processor in a dual axle cargo trailer.



Model TFS2 on-line OLTC filter to reduce carbon and metallic particles, and water. Reduces LTC maintenance.



Mini-dehydrator / degas up to 60 GPH. Priced under \$16K.



Exciting TEST Products for the US Power Industry !

BATTERY BANK Testing

TEST those substation battery banks. Simple voltage and /or resistance scan, to impedance test with load-test competency, to full discharge testing with auto-scanning. BE ready for NERC and ensure that last line of defense, "DC" for control, is still intact.



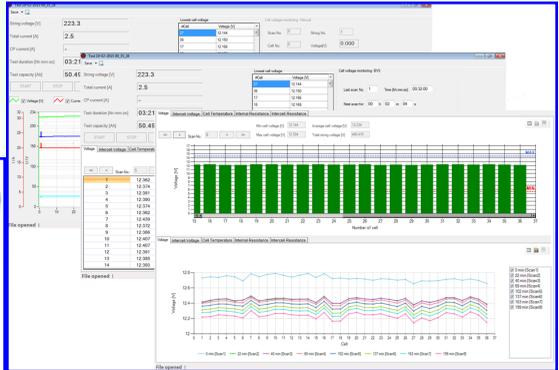
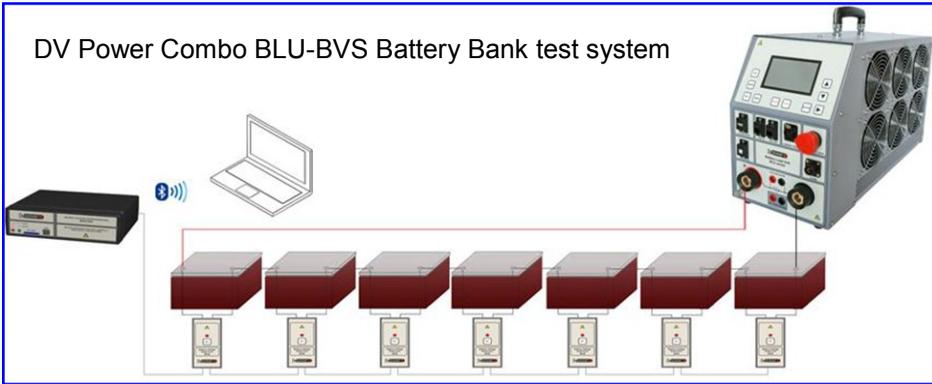
DV Power BLU 200 series, DC load with 10-480 VDC, over 20KW input. Settable limits for low volt level, A-H accumulated or time expiry. Graph report. <32lbs.



BAC25, DC Battery Charger to augment the permanent battery charger to speed up bank recharge times and reduce wait time to full back-up energy..



DV Power's BVR-20 for manual cell by cell testing, Use as routine bank voltage test or alongside BLU during capacity test to identify the weak cells,



BTM-Pico cell by cell scanner system. Reduced cost, fiber IR interconnection, noise immune, good isolation, PC software. Cell Voltage, bank current and resistance. Also for permanent battery bank monitoring. By Polytronics Engineering.



Sonel's 5KV and 10KV insulation resistance testers to 20 Tohm. Rugged instrument with TFT display. Accurate as others and well priced.



Misc. SUBSTATION Test

isa New from ISA Power Factor Test set

Model TDX5000, Affordable power factor (tan delta, capacitance), dissipation factor and excitation current test. 12KV, fully automatic. 15-500 Hz output. Local control with large graphic display. Test & Data Management Software for analysis, test automation and report. Compact and lightweight (85 lbs, one box solution).

Exciting TEST Products for the US Power Industry

PARTIAL DISCHARGE Test and Monitoring



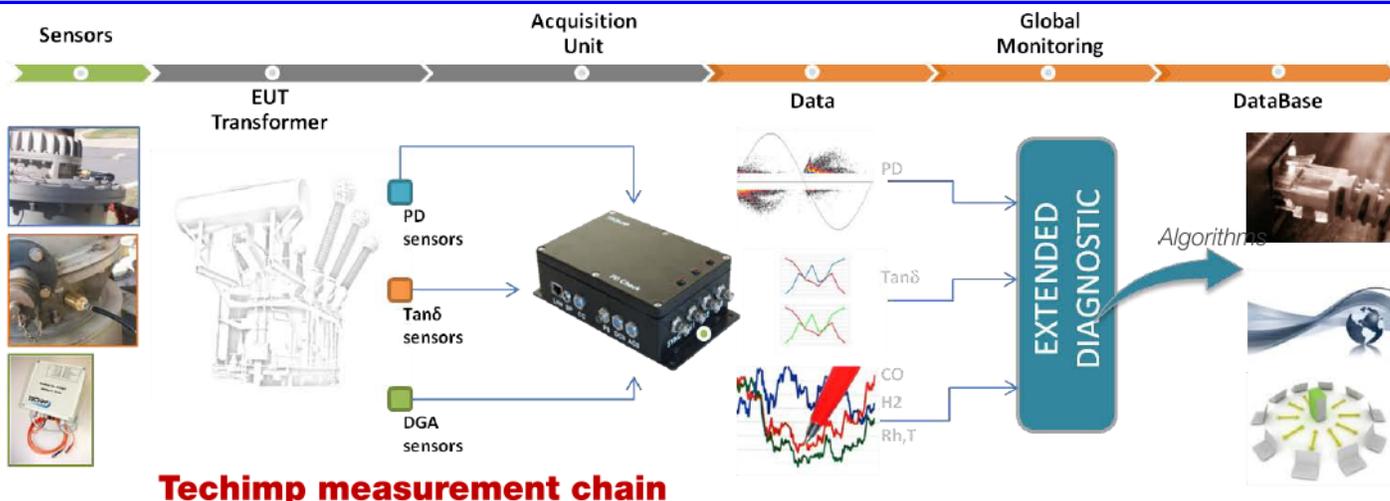
IPEC's model SGS and SGS Blu Portable PD identifiers have the superior ability to screen out noise and **only display PD** signals. Uses TEV and ultrasonic (aka acoustic) measurement technology. Competitively priced at under \$12K. Ideal for quick verification of PD presence in switchgear as a safety tool, as well. IPEC's product focus is for the **4.16KV to 35KV** switchgear applications.



PD testing is the action of detecting aging signals before failure of power equipment. This technology is used extensively in the world and ProgUSA brings new tools to the USA market !



Techimp offers a complete measurement chain for **on-line condition assessment** of **power transformers** in substations including sensors and sub-systems and high level reporting to management, for Partial Discharge, Tan Delta (Capacitive current) and Dissolved Gas Analysis (Hydrogen, Carbon Monoxide and moisture). Newest generation of DGA with unique sensing membrane. Patented Tan Delta allows trigger threshold for problem.



Techimp measurement chain



Affordable SF6 gas detection camera coming soon!

Portable IR technology.

Misc. SUBSTATION Test

Sonel's UV-260 UV camera for detecting corona emissions. Useable in daylight. Overlays on visible target image with auto-focus.



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Thermal Imager

Thermal Imaging Camera from Sonel . 3.5" display. High brightness display in high ambient light or outdoors. SD memory card, micro USB and Wi-Fi for data transmission. -20 deg C to 350 deg C. 4 hour Li-Ion battery. 160 x 120px thermal res. Digital zoom. Budget friendly.

Exciting TEST Products for the US Power Industry

"Power Industry Test Specialists"

ProgUSA LLC

OUR STORY: ProgUSA is a unique American company providing premium diagnostic Test equipment for many application areas within the US electric power industry. ProgUSA provides a sales, support and service network across the entire USA for select high quality manufacturers originating outside USA. We focus on tools that are more advanced on diagnostic technology and have excellent value, and continuously offer education on such diagnostics.

Protective System Test



DRTS 34/64/66 [multi-phase RE-LAY testers](#). Front panel control, more power, Free software, free and easy updates, free multiple software copies! **ENOSERV** software compatibility. Up to 6V and 6I channels in one box.



CTMP-2M Field ready Multi-tap CT Tester.

Ratio, polarity, saturation, burden, secondary injection, & phase angle and amplitude for load tests. Made in USA. < \$10K



CT Testers



CT and PT testers (T2000) for phase, turns ratio, excitation curve. CT test using Current method for improved competency, **AND** popular Voltage method available from ISA test, up to 4000Amp source with boosters. Also typical US 'Voltage method' portable CT error tester from **Red Phase**.

OVERHEAD LINE FAULT LOCATOR

(TFS2100) The most accurate overhead transmission and distribution **LINE FAULT LOCATOR**. Accuracy: ± 150 yd typical regardless of the line length. Using Travelling Wave technology ! Easy to install. Non-intrusive. Differentiates between lightning and ground faults. Up to 4 x 3ph lines in one 2U rack space on each end of line(s).



Protective **RELAY** Tester for single or dual phase tests, under \$10K. (T1000P)The relay technician's toolbox, multiple outputs and complex timing measurements. Variable phase and variable frequency. Up to 200A

SERVICE: ProgUSA realizes that US customers want to be sure that there is

USA based service available for their instruments. ProgUSA has a basic service shop in our Orlando office and a nearby full service repair and NIST calibration shop. In the rare case that the test set needs to be returned to the factory, ProgUSA handles all export & import papers to simplify ownership for the test set owner.

TRAINING: Certain test sets use can be optimized if the end-user gets proper training. ProgUSA has specialists on hand to offer such training for the more complicated diagnostic equipment. In some cases it is an on-customer-site session and in other cases it is a regional seminar style. www.progusa.net with offices in Orlando (HQ and Service Center), Los Angeles, Chicago, Dallas and Hartford.