

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



**MV,HV,EHV CIRCUIT BREAKER Testing** for Timing & Travel, Micro-ohms for contacts (“Ductor”) and bus joints. Now with dynamic resistance and First trip ability. CB Coil testing and CB power for commissioning



**LIGHTWEIGHT** Portable micro-ohmmeters, TRUE DC, Lightweight cables, 100A to 800A versions. RMO-200G most popular in US. Both Sides Grounded safety feature! New 300A version for US standard **Ground Grid integrity** test.



Test CB's when no DC available. Power Supply for CB Coil Testing for low DC Volt operability and CB commissioning. POB40AD. SAT40A also Measures coil resistance and interfaces with CAT software for flexible situation testing.



**New RMO-H22** low cost (<\$6K) handheld micro-ohmmeter. Up to 200 AMPS TRUE DC, ripple free current. Battery powered. Uses hi-energy Li-Po technology, weighs 2 lbs. Leads up to 33ft.

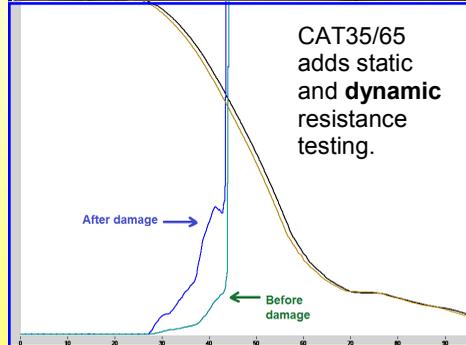
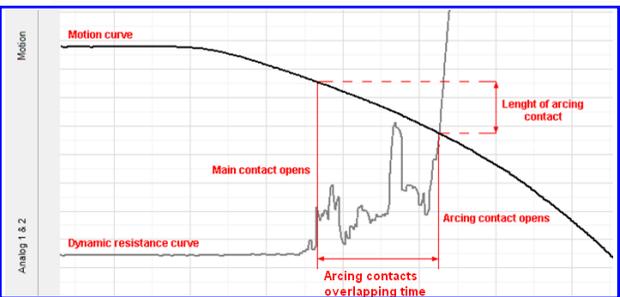


CAT series of low cost **Breaker timing/motion analyzers**. 3, 6 or 12 timing ch. Many models under \$12K.

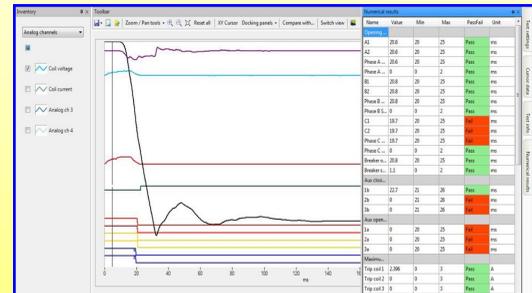
CAT hi-performance series add **DRM** ability and higher channel count. **Both Sides Grounded** test option. Built-in 200A Micro-ohmmeter on some models. Pre-insertion resistor (PIR) measure and graph.

**Free PC software and free upgrades.**

DV Power advances portable test for CB's. **CAT-H** handheld 3ph CB timer w coil control built-in, **off-line test**. **CAT-P** model adds First Trip **on-line test**. Both lightweight with clear useful displays and archiving PC software. DV-Win.



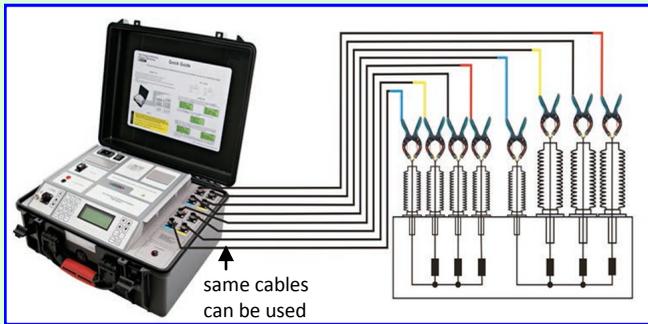
CAT35/65 adds static and dynamic resistance testing.



Sample of full timing/motion capture with pass/fail limits. Save as pdf, .xlsx, or .docx

**All DV Power products carry a 3 year warranty and are serviced in Florida**

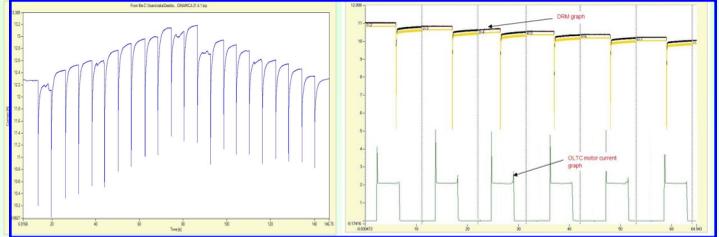
# POWER TRANSFORMER DIAGNOSTIC EQUIPMENT



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. New **auto-tap-step** feature! 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. TRT400 has 1, 8, 40, 100, 250, 430 VAC ranges for CT thru to largest power transformers. **Auto-tap-step** control/measure thru OLTC taps lets PC do the work.



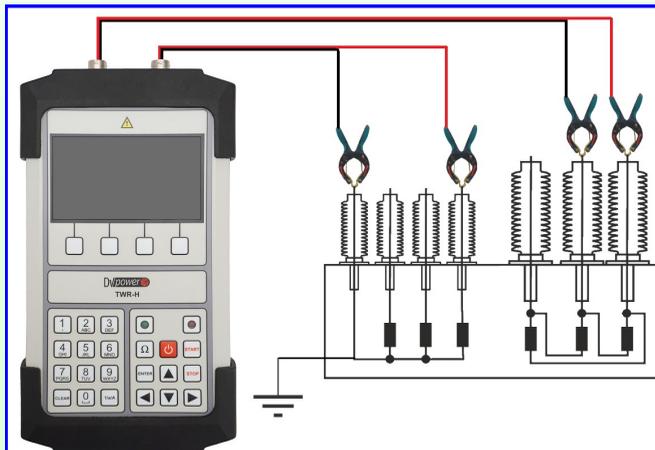
TRT500 w 10" display, 500VAC



TWA500 w 10" display, no PC req'd



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 (**LTC-DRM**) **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 and new auto-tap-step for easy OLTC test.



(**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.



**new TWR-H** combo WRT and TRT 1ph. Shown to left connected to 3 ph dry DYN1 transformer. Unique handheld instrument for 2021. Measures turns ratio, winding resistance of a single phase then does demagnetization. TRT up to 40VAC. WRT with 10A for LV side and 2A for HV side,



## SF6 gas quality Testing



RH 973-SF6 analyzer or 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 and custom **fittings kits** available for testing or filling. **Supported 100% by RH in Arizona**

**Adapter kits**  
for RH and others



## 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 **736A** for **maximum** Sf6 cart performance up to 500KV use. Modern graphic HMI and flexible on-board storage and trailers.



## FRA500 Test set



Wide bandwidth (0.1Hz to 25 MHz) and >150 db dynamic range vs others in the market. Gives graphic 'fingerprint' of mechanical aspect of transformer to detect issues during shipment or other vibration. No PC required in the field. **Unique ability** to accept and compare/overlay other supplier's **SFRA** files. Correlates to C57.149-2012 std. Fast sweep 20 seconds (20Hz-2MHz).



## TRANSFORMER OIL DE-GASSING & DRYING



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

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



Wide range of std and custom transformer insulating **oil de-gassing & drying** systems. Uses high vacuum process to reduce water to less than 10ppm. Also modern **regen** systems get oil to better than virgin oil.

# 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. Flooded, VRLA or NiCad applications.

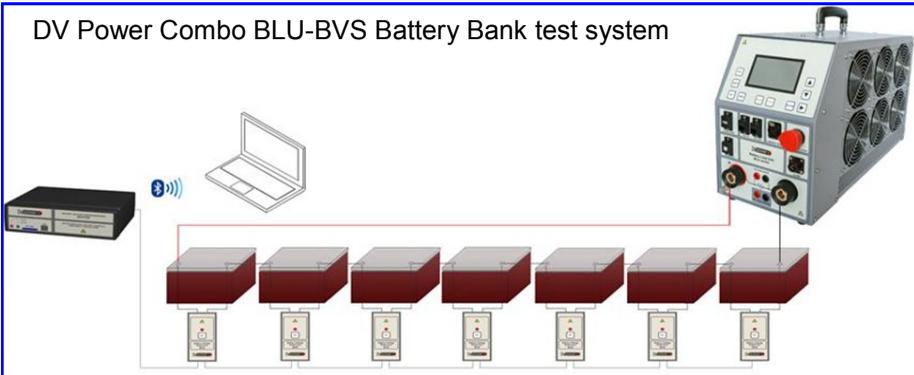


DV Power DC loads BLU and BLU-T series 0.9 -500 VDC, over 28KW input on some models. Settable limits for low volt level, A-H accumulated or time expiry. Graph report. <32 lbs. aka 'capacity test'

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..



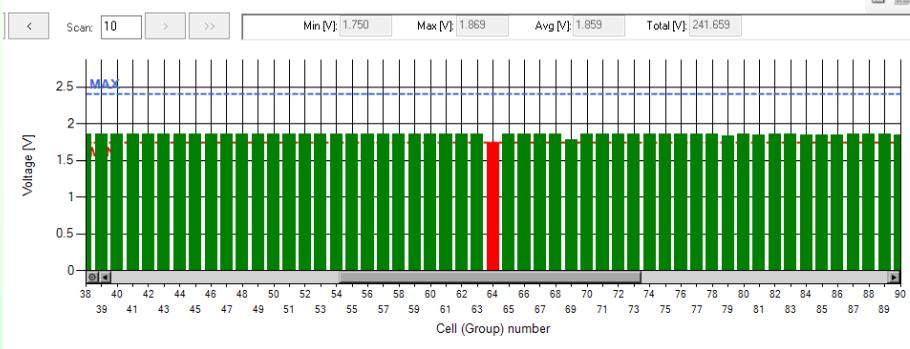
DV Power's BVR-20 for manual cell by cell testing, Use as routine bank **voltage test** or alongside BLU during capacity test to identify the weak cells,



IBAR Ohmic tester to satisfy NERC tests with AC resistance test method. < \$2500. Light-weight and PC software.



BVS **cell by cell scanner** system can be used with DV Power BLU loads or as stand alone monitor or with other suppliers loads. New firmware permits proper analysis of even NiCad energy dissipation. **New quad** cell modules reduce cost by over 35% and reduce cabling.



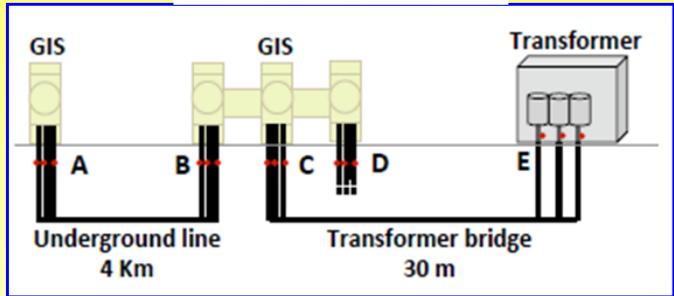
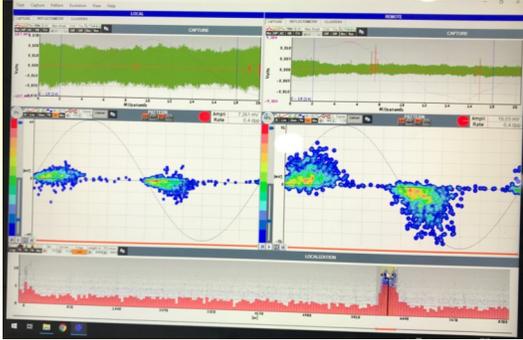
**Advanced BLU C series** of electronic DC loads. Large 7" display, option to drain battery down to 0V prior to recycling. 'No crouch' form factor. Integral cell by cell scanner control, no PC required. Models up to 800VDC and 42KW. Under 46Lbs.



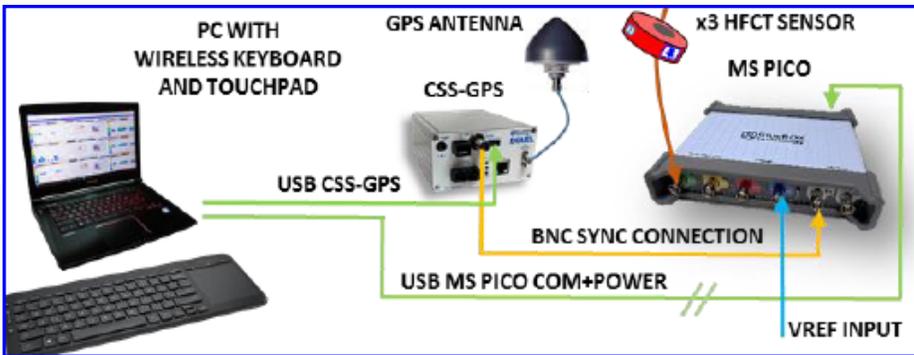
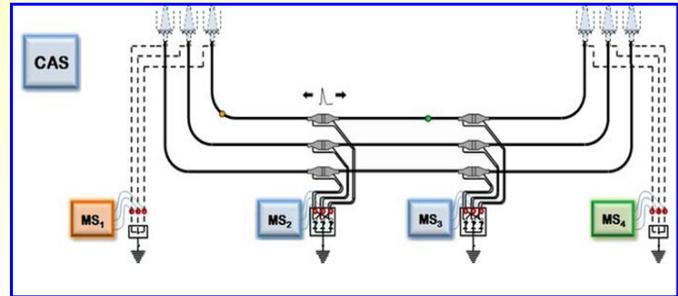
# SUBSTATION INSPECTION and PARTIAL DISCHARGE

## DIAEL

Effective **PD monitoring and test key**, is the patented noise reduction software by **DIAEL**. 3D clustering simplifies PRPD analysis from 3 different sensor types at the same time permit accurate verification of PD in transformers, vs false alarms and chasing noise. HF (HFCT)-UHF(TEV)-UHF(antenna) sensors by **DIAEL**. Automatic PD mapping does fault location within HV underground cables, with HF sensors and GPS. Systems available for temporary test, short term monitoring, long term monitoring and on line analysis.

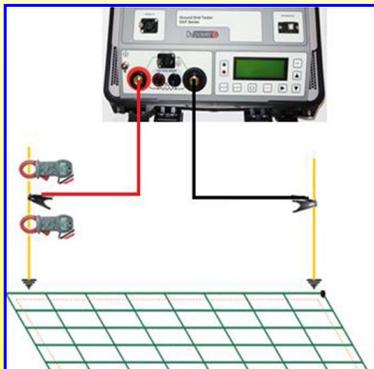


Cable and joint test for PD



DIAEL's MS-Plus system for **long term monitoring** (rack mount, permanent monitor system also available) for PD in HV cables, GIS and bushings.

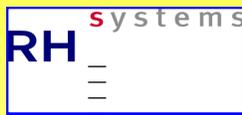
**DIAEL's Pico** model is useful for PD location in HV **underground cables** as a spot test or short term monitor. One test setup as above at either end of up to a 5 mile long cable can locate PD quite accurately. Base Config. < \$15K.



Test **substation ground grid integrity** with this specially modified 300AMP micro-ohmmeter. **DV Power** model GGT500 was developed in conjunction with a USA utility to provide portable, rugged test set to follow this accepted effective procedure. Finds defective grid points due to corrosion, vibration, bad cable welds, loose clamps or poor apparatus ground connection leads.



New **DIS-H Disconnect switch motor analyzer**. Measures motor voltage, current, power consumption and operating time. Graphical and numerical results.



## Exciting TEST Products for the US Power Industry

# DIAEL



# ALTANOVA

Advanced testing and monitoring solutions

OUR STORY: ProgUSA LLC 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. Since **2005**



# ALTANOVA

Advanced testing and monitoring solutions

**Power Factor, Tan Delta Test set** 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 light-weight (85 lbs, 1 box solution).



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 of drive, for electro-mech relays.



## CT/PT Tester

New iCT1 from ISA-Altanova. Measuring turns ratio, polarity, phase angle, saturation, burden, resistance tests plus demagnetizes CT. Fully automatic mode to cycle through all 5 taps of a CT and show ratio and saturation points. **High accuracy** adequate for verifying up to 0.1 metering CT's. Data extraction via USB, Memory stick or WiFi. Rugged. With 7" display. Free PC software for control, and report gen.

**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 or web-based inter-active training and in other cases it is a regional seminar style. [www.progusa.net](http://www.progusa.net) with offices in Orlando (HQ and Service Center), Los Angeles, Dallas, Atlanta, Washington, Chicago & Pittsburgh.

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