



General Catalogue

CABLE TESTING & DIAGNOSTICS
TRANSFORMER OIL TESTING

b2
electronics



Innovation in High Voltage

b2 electronics offers a wide range of VLF test sets with maximum output voltages from 29 kV up to 200 kV. All our VLF test sets provide a pure sinusoidal output voltage and high modularity, thus they are the ideal voltage source for our PD and TD diagnostics equipment. Transformer oil testers with voltages up to 100 kV complete our product portfolio.

With partners in more than 80 countries, we are always close to our customers. From our first interaction to delivery and beyond, we share our knowledge and attach great importance to a trustful partnership.

OUR PRODUCT PORTFOLIO

VLF CABLE TESTING, DIAGNOSTICS & TRANSFORMER OIL TESTING



VLF CABLE TESTING

VLF cable testing with 0.01 Hz to 0.1 Hz is a standardized and state-of-the-art method to determine the condition of cables in medium- and high voltage networks. Compared to DC testing, it prevents damage to the insulation of aged extruded cables which can cause premature loss and is suitable for various insulations, e.g. XLPE, PILC, PE, EPR.

Due to the negative side effects of DC hipot testing, VLF AC waveform testing of MV and HV cables during tests for installation, acceptance or maintenance is nowadays recommended by most of the cable testing standards, including IEEE 400.2, IEC 60502-2, DIN VDE 0276-620 and 0276-621, CENELEC HD 620 S2 and HD 621 S1.



INSULATION OIL TESTING

Ultra-light breakdown analyzers from b2 electronics are straightforward to operate and ideally suited for both laboratory and on-site transformer insulation oil testing, performing a fully automated oil breakdown test.

In order to fit the needs of all our clients, we offer a wide range of reliable transformer oil testers, with test voltages up to 100 kV (sine wave). Breakdown Analyzer test sets from b2 electronics include predefined and fully automatic test sequences which are in compliance with all relevant international standards.



VLF CABLE DIAGNOSTICS

Conducting diagnostics on MV and HV cables enables early detection of vulnerabilities and prevents potential breakdowns during operation. Partial Discharge (PD) diagnostics allows a precise analysis of cables, joints and terminations. By finding the exact PD location, detected damages can be fixed before they result in a cable failure. This leads to massive improvement in the network stability and reduction of repair costs.

Tan Delta (TD) diagnostics is a proven, simple and reliable test method for evaluating the overall dielectric condition of cables and other electrical systems. As water trees in aged polymeric cables (e.g. XLPE) do not generate PD by themselves, they can be determined conducting a TD test only.



b2 SOFTWARE SOLUTIONS

For each of our product series, b2 electronics provides tailor-made powerful software solutions which feature flexible and fast data acquisition, customized test sequences and extensive reporting capabilities. Additionally, they are offering remote control of b2 devices to further increase the safety and usability for specific applications.

b2 ControlCenter is a versatile software solution for HVA test sets. b2 Suite is a software for testing, diagnostics and report management. BA ControlCenter evaluates fast and accurately condition of transformer insulation oils. To stay up to date, all b2 software solutions are maintained regularly.



HVA VLF CABLE TEST SETS



UNLIMITED OPERATING TIME

HVA test sets are designed for continuous operation without any thermal limitations.



DRY SYSTEM (UP TO 120kV)

HVA test sets are constructed with non-arcing contacts and are completely oil-free. This eliminates routine servicing and makes the test sets almost maintenance-free.



COMPACT AND PORTABLE

Our HVA test sets are designed for maximum portability, resulting in widely applicable devices for any type of on-site use.



TRUE MODULARITY

All our HVA test sets can be easily extended to a complete diagnostics system by adding our PD, TD or PDTD series products at a later point of time. This keeps the initial investment low.

HVA VLF CABLE TEST SETS

The HVA series consists of truly compact and portable VLF test sets which determine the condition of MV and HV cables at frequencies from 0.01 Hz to 0.1 Hz. They all perform VLF (sine- & square wave) withstand testing, DC testing, as well as sheath testing with sheath fault location mode (additional sheath fault locator needed).

b2's VLF test sets provide cable testing in ranges of maximum output voltages from 24 kV_{rms} / 34 kV_{peak} to 141 kV_{rms} / 200 kV_{peak} with weights starting at only 20 kg / 44 lbs.

EXTRA POWER VLF CABLE TEST SETS

These are HVA series members with an output current up to 120 mA, extending greatly the load possibilities and testable length of a cable.

YOUR BENEFITS

- Pure sinusoidal output voltage (load-independent) over the entire power range
- Easily exchangeable HV test lead
- Breakdown voltage and load detection
- Integrated 12 kV backfeed protection (at 50 / 60 Hz)
- Real time oscilloscope view of the output voltage on the HVA display
- Programmable test sequences with a tailor-made software tool



HVA34



HVA68-2





smartVLF® CABLE TEST SETS



BLUETOOTH® & USB 2.0

Any smartVLF® test set can be easily connected to b2 ControlCenter or b2 Suite software via Bluetooth®. This allows live monitoring of measurements. A USB 2.0 interface secures simple upload and download of data or test sequences.



IP67

A watertight and very rugged case with a protection class of IP67 makes additional transport boxes obsolete.



MONITORED WITHSTAND TEST

The TD versions of our smartVLF® test sets combine cable testing and TD diagnostics as per IEEE 400.2 guide.



TROLLEY VERSIONS

HVA34-1, HVA34TD-1, HVA45 and HVA45TD test sets come with an integrated trolley mounted to the housing for even easier handling.

smartVLF® CABLE TEST SETS

Our ultra-light and powerful smartVLF® test sets determine the condition of medium voltage cables at frequencies from 0.01 Hz to 0.1 Hz. They all perform VLF withstand testing, DC testing, as well as sheath testing with sheath fault location mode (additional sheath fault locator needed).

These VLF test sets provide cable testing in ranges of maximum output voltages from 21 kV_{rms} / 29 kV_{peak} to 34.6 kV_{rms} / 49 kV_{peak} at weights as low as 14 kg / 31 lbs. to 39 kg / 86 lbs.

INTEGRATED TD FUNCTIONALITY

In order to meet international test guides (e.g. IEEE 400.2) smartVLF® test sets can be ordered with an optional integrated Tan Delta diagnostics unit, allowing Monitored Withstand Tests. Additionally, all systems can be operated in combination with our external PD and PDTD diagnostic systems.

YOUR BENEFITS

- TD measurements with an accuracy of $\pm 0.1 E-3$
- Pure sinusoidal output voltage (load-independent) over the entire power range
- Continuous and unlimited operation without any thermal limitations
- Easily exchangeable HV test lead
- Oil-free design eliminates routine servicing and makes the HVA test sets almost maintenance-free
- Safety: Dual Discharge Device (DDD) and integrated 12 kV backfeed protection (at 50 / 60 Hz)
- Programmable test sequences with a tailor-made software tool



HVA28TD

HVA45TD



HVA SERIES
smartVLF® TEST SETS

HVA28
SH5001
HVA28TD*
SH5002



HVA34-1
SH5007
HVA34TD-1*
SH5008



HVA45
SH5010
HVA45TD*
SH5011



+ 4 kV Option**
Output voltage
(VLF sinusoidal)
34.6 kV_{rms}
49 kV_{peak}

EXTRA POWER VLF TEST SETS

HVA30-7
SH5005



HVA40-5
SH5009



HVA54-3
SH5012



HVA68-2
SH5016



Output voltage							
- VLF sinusoidal	0 ... 21 kV _{rms} / 0 ... 29 kV _{peak}	0 ... 24 kV _{rms} / 0 ... 34 kV _{peak}	0 ... 32.3 kV _{rms} / 0 ... 45 kV _{peak}	0 ... 24 kV _{rms} / 0 ... 34 kV _{peak}	0 ... 32 kV _{rms} / 0 ... 45 kV _{peak}	0 ... 38 kV _{rms} / 0 ... 54 kV _{peak}	0 ... 48 kV _{rms} / 0 ... 68 kV _{peak}
- DC	-28 kV ... 28 kV	-34 kV ... 34 kV	-45 kV ... 45 kV	-34 kV ... 34 kV	-45 kV ... 45 kV	-54 kV ... 54 kV	-65 kV ... 65 kV
- VLF square wave	0 ... 28 kV	0 ... 34 kV	0 ... 45 kV	0 ... 34 kV	0 ... 45 kV	0 ... 54 kV	0 ... 60 kV
Output current (max.)	17 mA	45 mA	45 mA	120 mA	120 mA	120 mA	88 mA
Output load	0.5 µF @ 0.1 Hz @ 21 kV _{rms} 0.9 µF @ 0.1 Hz @ 16 kV _{rms}	1.5 µF @ 0.1 Hz @ 24 kV _{rms} 2.2 µF @ 0.1 Hz @ 20 kV _{rms}	0.9 µF @ 0.1 Hz @ 32 kV _{rms} 0.8 µF @ 0.1 Hz @ 34 kV _{rms}	6.0 µF @ 0.1 Hz @ 24 kV _{rms} 7.2 µF @ 0.1 Hz @ 20 kV _{rms}	3.8 µF @ 0.1 Hz @ 32 kV _{rms} 5.0 µF @ 0.1 Hz @ 27 kV _{rms}	2.7 µF @ 0.1 Hz @ 38 kV _{rms} 3.6 µF @ 0.1 Hz @ 33 kV _{rms}	1.7 µF @ 0.1 Hz @ 48 kV _{rms} 2.1 µF @ 0.1 Hz @ 43 kV _{rms}
Max. load capacitance ¹	10 µF	10 µF	10 µF	15 µF	15 µF	10 µF	10 µF
Weight	14 kg / 31 lbs.	39 kg / 86 lbs.	39 kg / 86 lbs.	57 kg / 125.6 lbs.	57 kg / 125.6 lbs.	57 kg / 125.6 lbs.	57 kg / 125.6 lbs.

VLF TEST SETS

HVA34
SH5006



HVA60
SH5014



HVA90
SH5017



HVA94
SH5018



HVA120
SH5019



HVA200
SH5020



Output voltage						
- VLF sinusoidal	0 ... 24 kV _{rms} / 0 ... 34 kV _{peak}	0 ... 44 kV _{rms} / 0 ... 62 kV _{peak}	0 ... 64 kV _{rms} / 0 ... 90 kV _{peak}	0 ... 66 kV _{rms} / 0 ... 94 kV _{peak}	0 ... 85 kV _{rms} / 0 ... 120 kV _{peak}	0 ... 141 kV _{rms} / 0 ... 200 kV _{peak}
- DC	-34 kV ... 34 kV	-60 kV ... 60 kV	-90 kV ... 90 kV	-90 kV ... 90 kV	-100 kV ... 100 kV	-200 kV ... 200 kV
- VLF square wave	0 ... 34 kV	0 ... 60 kV	0 ... 90 kV	0 ... 90 kV	0 ... 100 kV	0 ... 200 kV
Output current (max.)	32 mA	44 mA	57 mA	57 mA	80 mA	140 mA
Output load	0.8 µF @ 0.1 Hz @ 24 kV _{rms} 1.2 µF @ 0.1 Hz @ 20 kV _{rms}	1.0 µF @ 0.1 Hz @ 44 kV _{rms} 1.4 µF @ 0.1 Hz @ 33 kV _{rms}	1.0 µF @ 0.1 Hz @ 64 kV _{rms} 1.5 µF @ 0.1 Hz @ 43 kV _{rms}	0.9 µF @ 0.1 Hz @ 66 kV _{rms} 1.4 µF @ 0.1 Hz @ 43 kV _{rms}	0.5 µF @ 0.1 Hz @ 85 kV _{rms} 2.0 µF @ 0.1 Hz @ 43 kV _{rms}	0.6 µF @ 0.1 Hz @ 141 kV _{rms} 0.8 µF @ 0.1 Hz @ 120 kV _{rms} 1.0 µF @ 0.1 Hz @ 110 kV _{rms}
Max. load capacitance ¹	12 µF	10 µF	10 µF	10 µF	5 µF	10 µF
Weight	20 kg / 44 lbs.	57 kg / 125.6 lbs.	127 kg / 280 lbs.	128 kg / 282.2 lbs.	198 kg / 436.5 lbs.	ca. 950 kg / 2094 lbs.

* with integrated Tan Delta diagnostics | ** default: the HVA45TD is supplied with an output voltage of 45 kV_{peak}, 32.3 kV_{rms}. The option + 4 kV must be ordered additionally. | ¹ at lower frequency and voltage



b2 ControlCenter



CUSTOMIZED TEST SEQUENCES

Individual test sequences can be created with the help of the sequence editor and uploaded to an HVA test set.



EASY REPORTING

Reports can be easily generated and managed. b2 CC offers many measurement and graph options, as well as several formats for individual data processing and customized reporting of test results.



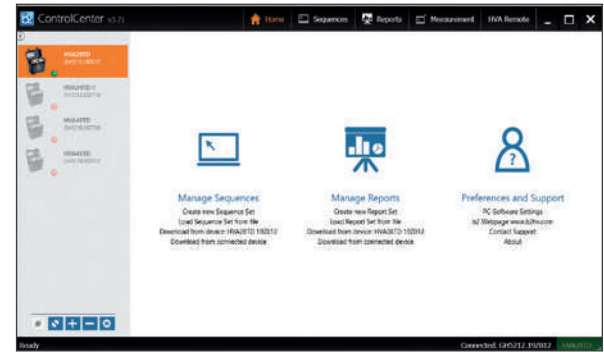
MONITORED WITHSTAND TEST

The b2 CC allows to visualize Monitored Withstand Tests by displaying live data of simultaneously ongoing VLF withstand tests and TD diagnostics, as per IEEE 400.2.



HVA REMOTE (OPTIONAL)

Remote control via PC further increases the safety and usability of our HVA test sets.



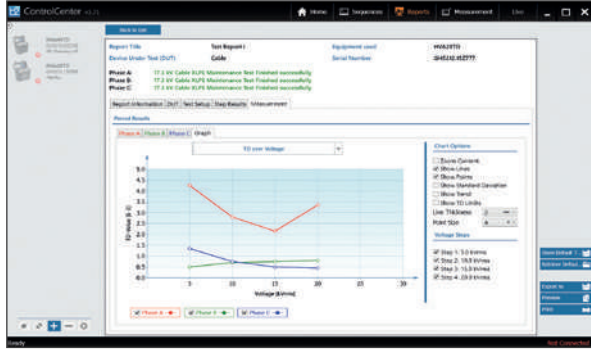
User interface



Report management



MWT - TD limits setting



Tan Delta diagnostics

POWERFUL SOFTWARE SOLUTION FOR HVA TEST SETS

b2 ControlCenter (b2 CC) is designed for all HVA test sets from b2 electronics. It features flexible and fast data acquisition, customized test sequences and extensive reporting capabilities. For HVA test sets with an internal TD diagnostics unit, b2 CC serves as a comprehensive diagnostics platform providing an even wider range of options, such as defining, executing and viewing the Monitored Withstand Test (MWT).

YOUR BENEFITS

- Connect devices via Bluetooth® or serial connection (depending on the device being used)
- Manage customized or pre-programmed sequences and upload them to the test set
- Get real-time measurement data from the connected test set and create reports directly on your computer
- Extensive reporting capabilities



HVA200 VLF CABLE TEST SYSTEM



PARTIAL DISCHARGE AND TAN DELTA DIAGNOSTICS
HVA200 can be extended to a complete cable diagnostics system at any time.



UNLIMITED OPERATING TIME
HVA test sets are designed for continuous operation without any thermal limitations.



FLEXIBLE POSITIONING
The HVA200 test system can be arranged in a space-saving V-type configuration. The angle between DC towers can be changed from 60° to 180°.



DUAL DISCHARGE DEVICE (DDD)
An additional electro-mechanical discharge device acts as a backup to the electronic discharge device and doubles the operational safety of this HVA test system.

200kV PURE SINUSOIDAL VLF HIPOT TEST SYSTEM

VLF output voltages of up to 200 kV_{peak} allow performing voltage withstand tests on assets with test voltages as high as 141 kV_{rms} / 200 kV_{peak}. Our HVA200 system is far more compact and lightweight than any other withstand testing solution providing this voltage level. The test system can be upgraded with an optional PDTD device extending its capabilities with PD and TD diagnostics for comprehensive condition assessment of high voltage and medium voltage cables.



YOUR BENEFITS

- Pure sinusoidal output voltage (load-independent) over the entire power range
- Easily exchangeable HV test lead
- Breakdown voltage and load detection
- Programmable test sequences with a tailor-made software tool





HVA200 MOBILE-READY VERSION



TRAILER VERSION

Mounted on a compact and easily towable trailer, HVA200 can be moved to testing spots with limited access, such as small substations or urban surroundings.

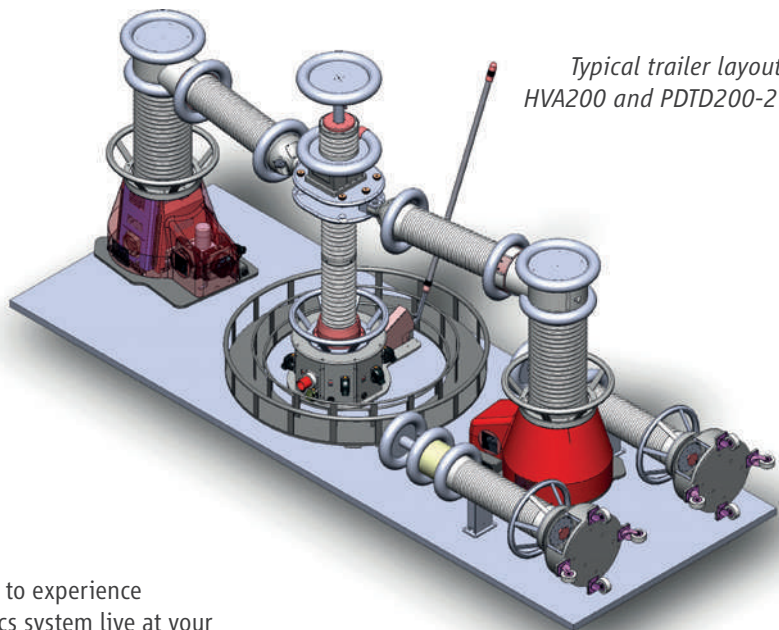


TRUCK VERSION

The HVA200 test system is perfectly prepared for installation on a flatbed truck. Due to its light weight, even lighter truck models with less maximum vehicle payload can be chosen as a basis.

SET UP YOUR MOBILE VLF TEST SYSTEM

The HVA200 is the ideal device for setting up your mobile VLF cable test system. It can be ordered ready for mounting on a trailer or a truck provided by the customer. The combination of an HVA200 with a vehicle results in a cost and personnel saving cable test system paired with fast set-up time and compact dimensions. These attributes make it a true alternative to resonant test sets in terms of size and investment needs.



Typical trailer layout with HVA200 and PDTD200-2 unit.

HVA200 ON TOUR

b2 electronics offers you a unique possibility to experience the HVA200 – 200 kV VLF test and diagnostics system live at your site. Apply on our website or via sales@b2hv.com for a measurement (VLF test, PD and TD) on your cable and get to know the versatility of the HVA200 system. The b2 team will demonstrate the setup, all functions, perform a real measurement and discuss the measurement results with you.





PARTIAL DISCHARGE & TAN DELTA DIAGNOSTICS

PARTIAL DISCHARGE (PD) DIAGNOSTICS

b2 electronics offers the widest range of portable and modular PD measurement solutions on the market, with maximum output voltages as high as 141 kV_{rms}.

Additionally, our PDTD devices are capable of measuring PD and TD simultaneously. This saves time and prevents pre-conditioning of the cable, since PD and TD are tested simultaneously and not one after the other.

TAN DELTA (TD) DIAGNOSTICS

b2 electronics offers different TD diagnostics solutions. Our smart VLF® test sets with a built-in TD functionality underline the portability of the HVA test sets as the smallest VLF high voltage generators on the market.

We also offer external TD and PDTD devices which enable updating any HVA test set with a TD diagnostics unit.



PDTD90-2



TD30



Outdoor case

YOUR BENEFITS

- Tailor-made VLF, PD and TD test system from a single source
- Easy handling and simple wiring
- PD measurement setup according to IEC 60270
- Locate and define possible PD faults in your DUT (see details at b2 Suite)
- Guard – leakage current correction for TD diagnostics available



COMPACT & PORTABLE

Our TD and PD systems are designed for maximum portability and on-site use. This makes them utilizable for versatile applications, e.g. off-shore.



TRUE MODULARITY

All our HVA test sets can be easily extended to a complete diagnostics system by adding our PD, TD or PDTD series products at a later point of time. This keeps the initial investment low.



AUTOMATIC MODE

With the b2 Suite software, you get manual and incremental test modes with self-explanatory menus, as well as a fully automatic measurement mode reducing operational efforts.



SIMULTANEOUS PD & TD MEASUREMENT

Included (or extendable) diagnostics units allow parallel measurement of PD and TD, resulting in significant time savings for the measurement and prevents additional conditioning of the cable.



Corona shields



TD SERIES

TD30
SH5021



TD60-MC
SH5023



TD90-MC
SH5025



TD120-MC
SH5026



Voltage				
- sine wave	1 - 24 kV _{rms}	1 - 44 kV _{rms}	1 - 64 kV _{rms}	1 - 85 kV _{rms}
- frequency	0.1 Hz, 0.01 - 0.09 Hz	0.1 Hz, 0.01 - 0.09 Hz	0.1 Hz, 0.01 - 0.09 Hz	0.1 Hz, 0.01 - 0.09 Hz
Voltage measurement				
- resolution / accuracy	0.1 kV _{rms} / 1 % of reading	0.1 kV _{rms} / 1 % of reading	0.1 kV _{rms} / 1 % of reading	0.1 kV _{rms} / 1 % of reading
Current measurement				
- resolution / accuracy	1 μA _{rms} / 1 % of reading	1 μA _{rms} / 1 % of reading	1 μA _{rms} / 1 % of reading	1 μA _{rms} / 1 % of reading
Tan Delta				
- resolution / accuracy	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴



PD SERIES

PD30-E
SH5027



PD60-2
SH5030
PDTD60-2*
SH5031



PD90-2
SH5032
PDTD90-2*
SH5033



PD120-2
SH5035
PDTD120-2*
SH5034



PDTD200-2*
SH5037



Voltage					
- sine wave	34 kV, 24 kV _{rms}	62 kV, 44 kV _{rms}	90 kV, 64 kV _{rms}	120 kV, 85 kV _{rms}	200 kV, 141 kV _{rms}
Capacitance					
Coupling capacitor	~ 1.8 nF	~ 1 nF	~ 1 nF	~ 1 nF	~ 0.75 nF
Velocity range (v/2)	10 - 150 m/μs	10 - 150 m/μs	10 - 150 m/μs	10 - 150 m/μs	10 - 150 m/μs
PD background level	< 10 pC	< 10 pC	< 10 pC	< 10 pC	< 10 pC
Sample rate up to	250 MS/s	250 MS/s	250 MS/s	250 MS/s	250 MS/s
Bandwidth	100 MHz analog filter	100 MHz analog filter	100 MHz analog filter	100 MHz analog filter	100 MHz analog filter
Tan Delta*					
(resolution / accuracy)		1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴	1 x 10 ⁻⁵ / ± 1 x 10 ⁻⁴

* with integrated Tan Delta diagnostics



b2 Suite



SIMULTANEOUS PD & TD MEASUREMENT

The parallel measurement of PD and TD results in significant time savings. In addition, it prevents pre-conditioning of the cable.



RELIABLE DETECTION OF PD ACTIVITIES

In order to locate PD precisely, the b2 Suite algorithms separate PD events from noise signals.



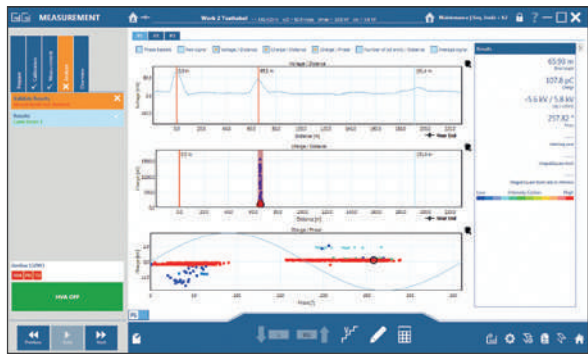
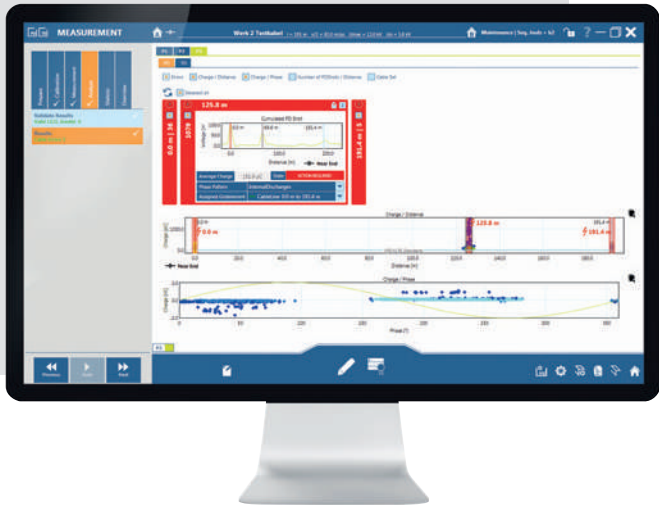
MONITORED WITHSTAND TEST

In combination with TD devices (and PD devices), the b2 Suite provides an additional comprehensive assessment (acc. IEEE 400.2) of your cable system, live.

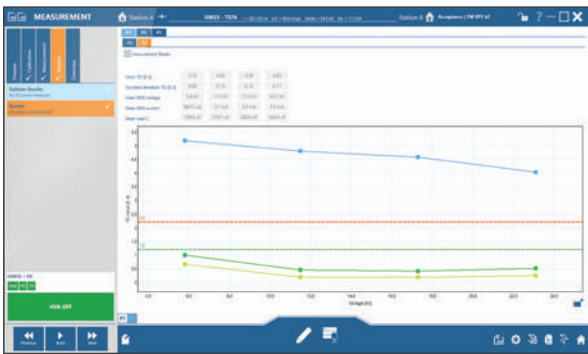


EASY AND INDIVIDUAL REPORTING

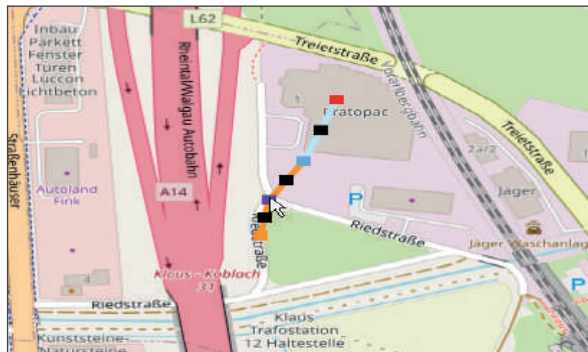
b2 Suite allows both simple and fast as well as individual and comprehensive reporting. Measurement data and additional files are included with the click of a button, allowing completion of measurements including reporting in only 15 minutes.



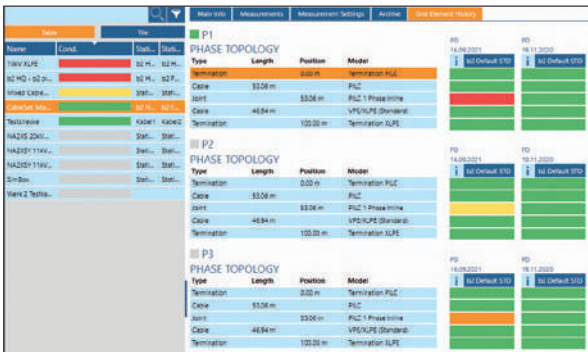
Phase-resolved PD pattern



TD over voltage chart



Direct mapping of cable trace (b2 Suite v2.0 or higher)



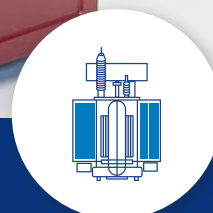
Trend of the selected grid element over all taken PD measurements

SOFTWARE SOLUTION FOR TESTING, DIAGNOSTICS & REPORTING

b2 Suite is an all-in-one computer software. A guided diagnostics process leads the operator through the entire cable testing process that includes VLF testing, PD and TD diagnostics, measurement data analysis and reporting, in real time. At the same time, it ensures the analysis and evaluation of the measured data in a comprehensive and easy-reading way. A fast comparison with past measurements in order to perform reproducible measurements is also available.

YOUR BENEFITS

- Automatic and manual operation modes for VLF testing, PD and TD diagnostics
- Visualization of PD events over the total cable length
- Powerful and comprehensive database
- Definition or recommendation of measuring parameters based on IEEE 400.2, CENELEC HD 620 S2:2010



BA TRANSFORMER OIL TESTERS



ULTRA-FAST SWITCH-OFF TIME

Modern mineral or silicon oils as well as new ester oils make oil testing increasingly challenging. An ultra-fast switch-off time ($<5 \mu s$) ensures reliable and reproducible test results.



AUTOMATIC TESTING ACCORDING TO STANDARDS

For reliable and comparable oil testing results BA test sets come with a set of predefined test sequences. This set complies with all relevant international and national oil testing standards.



RUGGED DESIGN WITH RELIABLE RFI/EMC SHIELDING

A metal housing ensures best possible RFI/EMC shielding. The rugged design also permits usage in tough environments.



COMPACT AND PORTABLE

BA models are the lightest and the smallest oil testers of their ratings available on the market.

BA SERIES

Ultra-light Breakdown Analyzers (BA) from b2 electronics are straightforward to operate and ideally suited for both laboratory and on-site transformer insulation oil testing, performing a fully automated oil breakdown test. In order to fit the needs of all our clients, we offer a wide range of reliable transformer oil testers, with test voltages up to 100 kV (sine wave).

BA test sets from b2 electronics include predefined and fully automatic test sequences, which are in compliance with all relevant international standards.



Transport case (optional)

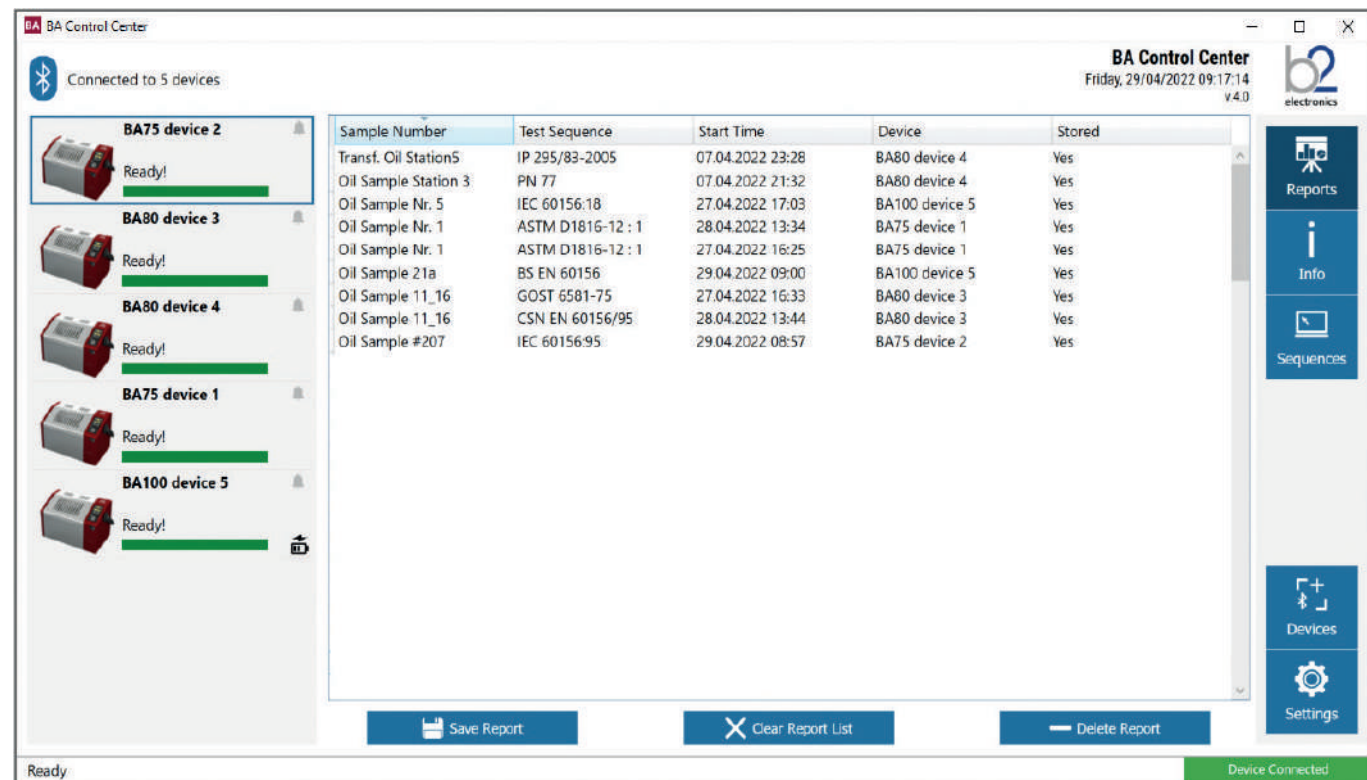


BA100

YOUR BENEFITS

- Portable test set - ideal for both laboratory and on-site testing
- Suitable for mineral oils, ester, natural, synthetic and silicon fluids
- Automatically generated test reports provided via BA ControlCenter software
- Integrated battery for operation at locations where no mains supply is available
- Automatic test sequences based on relevant international standards (including IEC 60156:2018, ASTM D1816-12, ASTM D877M-13 A/B, etc.)
- Integrated printer for immediate creation of measurement reports
- Test vessels with lockable electrode spacing eliminate the possibility of electrode movement during handling or testing



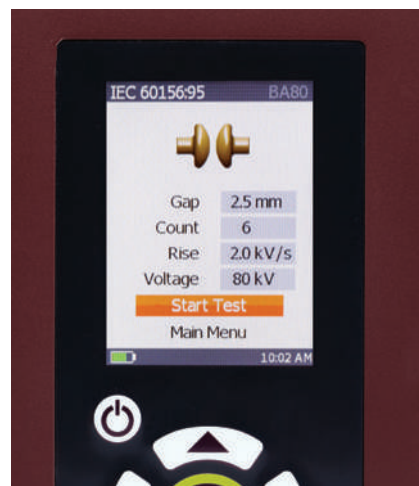


BA ControlCenter SOFTWARE

- Simultaneously manage up to 5 BA test sets
- Start test sequences remotely from your PC
- Create individual test sequences and upload them to the test set via Bluetooth® or USB flash drive
- Load test reports to the PC via Bluetooth® or USB flash drive (as PDF, XML, TXT, ...)



Transfer results via Bluetooth® or USB flash drive



Very bright and high-contrast color display



Print results

BA SERIES

BA75 SB5001



BA80 SB5003



Output voltage	up to 75 kV _{rms}	up to 80 kV _{rms}
Voltage rise rate	0.5 - 10 kV/s	0.5 - 10 kV/s
Switch-off time on flashover	< 5 μs	< 5 μs
Measurement of oil temperature	0 - 100 °C	0 - 100 °C
Printer / Bluetooth® / USB flash drive	● / ● / ●	● / ● / ●
Weight (incl. battery)	22 kg / 48.5 lbs.	22 kg / 48.5 lbs.

BA100 SB5004



Output voltage	up to 100 kV _{rms}
Voltage rise rate	0.5 - 10 kV/s
Switch-off time on flashover	< 5 μs
Measurement of oil temperature	0 - 100 °C
Printer / Bluetooth® / USB flash drive	● / ● / ●
Weight (incl. battery)	32 kg / 70.5 lbs.

Available test vessels

- Test vessel acc. to ASTM D1816 incl. stirrer, VDE electrode and gauge
- Test vessel acc. to IEC 60156 incl. sphere electrode and gauge
- Test vessel acc. to IEC 60156 incl. mushroom electrode and gauge
- Test vessel acc. to ASTM D877 incl. disc electrode and gauge



Founded in 2001, b2 electronics is an internationally acting company with the goal to innovate high voltage cable testing. With our solutions we help to prevent damage to electrical energy networks in a safe, fast and cost-efficient way. Customers in more than 120 countries put their trust in us and our systems.

b2 electronics - the right choice!

We are engineers who innovate with passion and a sense of responsibility. Our extensive product portfolio is patent proofed and makes us the market leader for compact and lightweight energy cable test and diagnostics equipment. Our solutions are fully researched, developed and manufactured in-house in Austria.



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