



## Insulating oil testing

THE ULTRA-LIGHT INSULATING OIL TESTER OF THE BA - BREAKDOWN ANALYZER SERIES FOR DIELECTRIC TESTING OF MODERN INSULATION LIQUIDS.



## BA Family

The test result enables plant operators to evaluate the condition of the insulating oil, allowing them to assess on the need for substitution of the oil. Various predefined and fully automatic test sequences meet all relevant international standards, thus the models of the BA series fulfill all legal requirements of the mandatory transformer oil test.

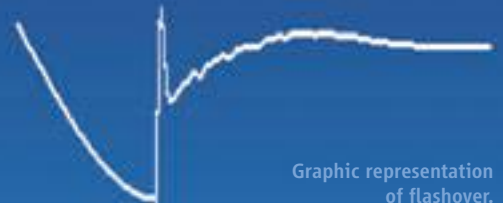
	BA60	BA75	BA80	BA100
Output Voltage (rms sym.)	up to 60 kV	up to 75 kV	up to 80 kV	up to 100 kV
Voltage rise rate	0,5 ... 10 kV/s			
Power supply	85 V ... 264 V (47 Hz ... 63 Hz) and 12 V external supply			
Internal rechargeable battery	○	●	●	●
Switch-off time on flashover	< 5 μs			
Measurement of oil temperature	0 ... 100 °C			
Display	2.8" colour (ultra bright)			
Selectable programs (extract)	IEC 60156/95, ASTM1816-04-1, ASTM1816-04-2, ASTM877-02A, ASTM877-02B, AS1767.2.1, BS EN60156, NEN 10 156, VDE370-5/96, ÖVE EN 60156, UNE EN60156, single measurement, other standards possible			
Customer-specific programs	unlimited			
PC Software "BA Control Center"	included			
Printer / Bluetooth / USB Memory Stick	○ / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●
Dimensions L / H / B (mm)	430 / 280 / 250	430 / 280 / 250	430 / 280 / 250	521 / 343 / 300
Weight (kg)	19	22 incl. battery	22 incl. battery	32 incl. battery



## Ultra fast switch-off time and clear detection of breakdown

15.3 kV

The use of modern mineral or silicon oils, as well as new ester-fluids generates new challenges for oil testing. An ultra fast switch-off time ( $<5\mu\text{s}$ ) is essential, for reliable, trustworthy and repeatability of any series of tests performed. Moreover, the direct measurement of the output voltage and the oscillographic display of the arc event present a precise and reliable analysis of the breakdown.



### Lockable electrode spacing

The adjustment of electrode spacing can be locked quickly, easily and safely to eliminate the possibility of electrodes moving while handling or testing.



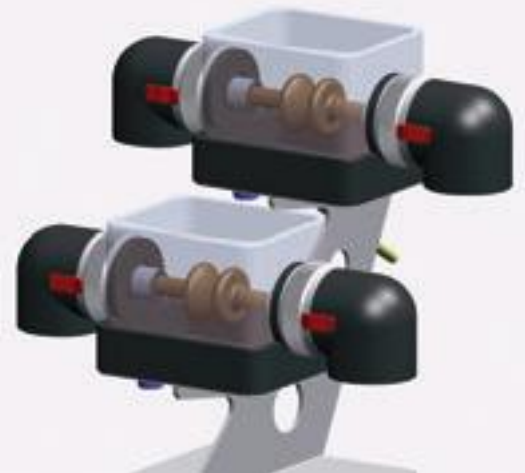
### Very bright and high-contrast colour display

An extra bright and high contrast display allows easy readability even under tricky ambient light conditions or in outdoor situations.



## Comprehensive accessories (partly optional)

- Test vessels with incorporated oil drain and hose terminal for easy draining of test liquid (oil)
- Test vessel bracket for easy drain of test liquid
- Various options of test vessel material (glass, plastic), form and size
- Calibrator accessories available
- Carrying bag, transport box, dust covers, etc...



Test vessel bracket with hose terminal for oil drain



## Highest level of RFI/EMC shielding and rugged design

A metal case ensures best possible shielding of interfering electromagnetic fields and constitutes a verified protection for your IT assets. This rugged housing also permits tough in field usage.



## Low weight and very compact design

The BA Breakdown Analyzer models are the lightest and smallest oil testers of their ratings available.



**BA75 11A001**  
 Sample: Transformer A 15  
 Test: Single Test





**BA75 11A001**  
 Sample: Transformer B 15  
 Test: IEC 60156:1995




**BA75 11B041**  
 Status: Ready!




**BA80 11A125**  
 Status: Ready!




BA Control Center V1.15  
 Tuesday, 19 04 2011 22:44:41

Sample Number	Test Sequence	Date/Time Start	Device
Station 0323	Single Test	2011-04-19 22:44	BA75 11B041
Station 0424	Single Test	2011-04-19 22:44	BA80 11A125
Transformer A 15	Single Test	2011-04-19 22:44	BA75 11A001
Transformer B 15	IEC 60156:1995	2011-04-19 22:45	BA75 11B041
Station 0323	Single Test	2011-04-19 22:44	BA75 11B041
Station 0424	Single Test	2011-04-19 22:44	BA80 11A125
Transformer A 15	Single Test	2011-04-19 22:44	BA75 11A001
Transformer B 15	IEC 60156:1995	2011-04-19 22:45	BA75 11B041
Transformer A 15	Single Test	2011-04-19 22:44	BA75 11A001
Transformer B 15	IEC 60156:1995	2011-04-19 22:45	BA75 11B041



Bluetooth and USB-connection



Print-out of test results



### PC Software "BA Control Center"

- Manage up to 4 BA's from your PC simultaneously
- Start the test sequence remotely from your PC
- Create user defined test sequences and implement them via Bluetooth or USB
- Test reports can be loaded to the PC also via Bluetooth or USB (PDF, XML or Text files)
- Printout also from external printer (via PC)



### Comprehensive test reports

- Print-out (BA75, BA80 and BA100)
- PDF-file
- Text and XML-file
- Measurement of oil temperature