

DPA 75 C

BAUR oil breakdown voltage tester



The standard in oil testing

- Fully automatic testing of the breakdown strength in compliance with international and national standards
- Suitable for mineral or silicone oils and ester liquids
- Reliable, reproducible measurement results using the latest measurement technology
- Designed for mobile use on site as well as for daily continuous operation in laboratories

The DPA 75 C oil breakdown voltage tester automatically tests the electrical breakdown strength of insulating liquids. Test sequences can be accomplished easily and fully automatically in compliance with all international and national standards. With reliable, informative test results it is possible to determine the exact condition of the insulating material and initiate any necessary measures, e.g. preparation of transformer oil.

The high precision of the BAUR oil breakdown voltage testers is based on a tried and tested and very accurate test voltage measurement principle performed directly on the HV unit of the device, as well as the permanent monitoring of the voltage slew (RBM). The especially short switch-off time after a breakdown counteracts the contamination of the oil sample, thus ensuring reliable reproducibility of the measurement results.

The DPA 75 C is designed especially for mobile use and for daily continuous operation in laboratories. The robust and sophisticated design guarantees safe and failure-free operation for several hundred thousands of oil sample measurements.

Features

- Test voltages up to 75 kV_{rms}
- Reliable, reproducible measurement results across multiple measurements thanks to short switch-off time < 10 μs
- Clear breakdown detection by means of very precise measurement principle performed directly in the HV unit and RBM technology
- Fully automatic test sequences for 19 common test standards around the globe and spot tests
- Easy creation of user-specific test sequences
- Built-in sensor for measuring the temperature of the insulating liquid
- Precise adjustment of standard electrode distances
- Automatic self-test with HV output voltage test each time you start
- EMC screen for preventing damage to electronic devices nearby
- Comprehensive safety concept, incl. high voltage shutdown through hood contacts
- User interface available in 14 languages
- Ergonomic operating unit with oil-proof membrane keypad, easy to read LC colour display and integrated printer
- Operation by:
 - Mains voltage
 - External power supply via 12 V connection especially for automobile battery
 - Integrated rechargeable battery
- Automatic reading of measurement results and creation of measurement logs in PDF format or as text file with BAUR oil tester data management software ITS Lite*
 - Management of measurement results for multiple oil testers possible
 - Customised layout of measurement logs

*Free download at www.baur.eu

Technical data

General		Insulating oil testing	
Input voltage	90 – 264 V (50/60 Hz) or DC 12 V	Output voltage	0 - 75 kV _{rms} symmetrical
Power consumption	Max. 70 VA	Voltage slew rate	0.5 – 10 kV/s
Rechargeable battery	Lead-acid battery, 2 x 6 V / 6.5 Ah	Switch-off time	< 10 µs
Battery life	Approx. 8 hours (self-sufficient operation)	Voltage slew monitoring	Real Breakdown Monitoring (RBM)
Display	Colour LCD (approx. 3.5"), screen resolution 320 x 240 pixels	Accuracy	0 – 75 kV ±1 kV
Data interface	<ul style="list-style-type: none"> ▪ USB 2.0 (type B plug) ▪ BAUR Report Manager external USB interface (type A plug) 	Resolution	0.1 kV
Printer	Matrix printer, 24 characters, 57 mm plain paper	Internal temperature recording of the oil sample	0 – 99°C
Ambient temperature (operational)	-10°C to +55°C	Temperature resolution	1°C
Storage temperature	-20°C to +60°C	Test standards	ASTM D1816:2012 1 mm, ASTM D1816:2012 2 mm, ASTM D1816/97, ASTM D877/D877M:2013 PA, ASTM D877/D877M:2013 PB, BS EN 60156, CEI EN 60156, CSSR RVHP:1985, IEC 60156:2018, IEC 60156:2018 Annex A, IRAM 2341:1972, JIS C2101:1999, PN 77/E-04408, SEV EN 60156, UNE EN 60156, NF EN 60156, SABS EN 60156, VDE 0370-5:1996, AS 1767.2.1
Humidity	Non-condensing	User-specific test sequences	10
Dimensions (W x H x D)	476 x 372 x 340 mm (closed) 476 x 635 x 420 mm (open)		
Weight	Approx. 29 kg		
Degree of protection	IP32		
Safety and EMC	CE compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), Environmental testing EN 60068-2-ff		
Software available in	English, Chinese (CN), Chinese (TW), Czech, Dutch, French, German, Italian, Korean, Polish, Portuguese, Russian, Spanish, Turkish		

Standard delivery

- DPA 75 C oil breakdown voltage tester
incl. integrated rechargeable battery and plain paper printer
- 1 x glass test vessel (test standard as selected)
- Magnetic stirrer
- Lifting stick for magnetic stirrer
- Setting gauge
- Carrying strap
- Mains supply cord
- User manual

Available glass test vessels 0.4 litres with cover



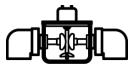
Test vessel acc. to IEC 60156 Fig. I



Test vessel acc. to IEC 60156 Fig. II



Test vessel acc. to ASTM D877



Test vessel acc. to ASTM D1816

Options

- Protective bag
- Transport case
- Magnetic stirrer
- Lifting stick for magnetic stirrer
- Setting gauge 1 mm acc. to ASTM D1816
- Setting gauge 2 mm acc. to ASTM D1816
- Setting gauge 2.5 mm acc. to IEC 60156
- Setting gauge 2.54 mm acc. to ASTM D877
- Setting gauge 4 mm acc. to BS EN 60156
- Setting gauge 5 mm acc. to SEV EN 60156
- Face pin wrench for disassembling the test vessel
- Paper roll for printer, 57 mm width, Ø 30 mm
- Ink ribbon (blue) for printer
- Glass test vessels 0.4 litres acc. to IEC 60156 Fig. I or Fig. II, ASTM D1816 or ASTM D877
- Pair of electrodes acc. to IEC 60156 Fig. I or Fig. II or ASTM D877
- BAUR Report Manager – External USB interface for measurement data management

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