

BAUR Oil tester DPA 75 C

The portable BAUR oil tester DPA 75 C fully automatically measures the electrical breakdown strength of insulating liquids.



Features

- Compact, portable and robust device for use onsite
- Test voltages from 0 to 75 kV_{eff}
- Repeatable breakdown measurements on mineral, silicone and plant oils
- Reliable measurement results thanks to the short switch-off time (<10 μs)
- Self-sufficient operation using the integrated battery or alternatively via mains
- User interface in 12 languages
- Highly efficient, functional, user-friendly, safety based design in a compact case for optimal mobility
- Direct HV breakdown detection using RBM technology and a new measurement principle
- Fully automatic measuring sequences, incorporating 19 pre-programmed test standards and 10 user-programmable test sequences
- Built-in temperature measurement of the insulating liquid
- Ergonomic operating unit with oil-proof membrane keyboard, easy to read LCD colour display and integrated printer
- EMC shield to prevent damage to EDP systems
- The high quality test vessel allows measurements without the influence of atmospheric air (compatible with DPA 75 vessels)
- Precise setting of the electrode gap
- Transport protection for test vessel
- PC interface including software for controlling, recording and archiving measurements (option)

Technical data

Power supply	85 V to 264 V (47 Hz to 63 Hz)	Programmable test sequences	10
Power consumption	Max. 60 VA	Interface	USB 2.0
Internal rechargeable battery	2 x 6 V / 6.5 Ah - approx. 8 h self-supporting operation	Printer	Matrix printer, 24 characters, 57 mm plain paper
Output voltage	0 ... 75 kV _{eff} symmetrical	Ambient temperature	-10 to +55 °C
For insulating liquids with tan δ values	< 4.5 or specific resistance $\rho > 30$ MΩm	Storage temperature	-20 to +60 °C
Voltage slew rate	0.5 to 10 kV/s	Relative humidity	Non-condensing
Switch-off time	< 10 µs	Dimensions (W x H x D)	476 x 372 x 340 mm (closed) 476 x 635 x 420 mm (open)
Voltage monitoring	Real breakdown monitoring	Weight without options	29 kg
Internal temperature recording of the oil sample	0 to 99 °C	Protection class	IP 32
Temperature resolution	1 °C	Designed and manufactured according to the following standards	IEC 61010-1, EN 61010-1, VDE 0411 Part 1
Accuracy	0 ... 75 kV ± 1 kV	Display	LCD colour display (320x240)
Resolution	0.1 kV		
Pre-programmed standards	ASTM D 1816-04 1 mm, ASTM D 1816-04 2 mm, ASTM D 1816/97, ASTM D 877 / 2002 PA, ASTM D 877 / 2002 PB, BS EN 60156, CEI EN 60156, CSSR RVHP / 1985, IEC 60156 / 1995-05, IRAM 2341 / 1972, JIS C2101 / 1999, PN 77 / E-04408, SEV EN 60156, UNE EN 60156, NF EN 60156, SABS EN 60156, VDE 0370 Part 5 / 96, AS1767.2.1, single measurement	Languages	German, English, French, Spanish, Italian, Portuguese, Dutch, Polish, Russian, Chinese (Cn), Chinese (Tw), Czech

Test vessels (for selection)



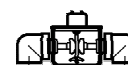
Test vessel 0.4 l in acc. with IEC 60 156 Fig. I with cover



Test vessel 0.4 l in acc. with IEC 60 156 Fig. II with cover



Test vessel 0.4 l in acc. with ASTM D 877 with cover



Test vessel 0.4 l in acc. with ASTM D 1816-04 with cover

Standard delivery includes

- Oil tester DPA 75 C incl. Printer and battery
- Test vessel (1 unit / as chosen)
- Magnetic oil stirrer
- Lifting stick for magnetic stirrer
- Setting gauge
- Mains connection cable
- User Manual
- Shoulder strap

Options

- PC interface and BAUR Oil testing software ITS incl. cable
- Robust, completely sealed cover bag (operation in bag possible)
- Setting gauges 1/2/2.5/2.54/4/5 mm
- Ring nut wrench for disassembling the test vessel
- KA DPA/DTA C calibrator