

BAUR Oil tester DTA 100 C

The powerful BAUR oil tester DTA 100 C automatically measures the electrical breakdown strength of insulating liquids fully.



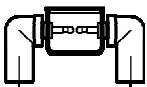
Features

- Power laboratory test device for problem-free continuous operation
- Test voltages of 0 to 100 kV_{eff}
- Repeatable breakdown measurements in mineral, silicone and plant oils
- Functional design for high efficiency, user-friendliness and safety in case of minimum space requirement
- User interface in 12 languages
- Reliable measurement results due to shortest switch-off time (<10 µs)
- Clear breakdown detection with RBM technology and a new measurement principle directly in the HV part
- Automatic self-test with HV output voltage test
- Fully automatic measuring sequences from 19 pre-programmed test standards and 10 user-programmable test sequences
- Built-in measurement of the temperature of the insulating liquid
- Illuminated test vessel
- Ergonomic operating unit with oil-proof membrane keyboard, easy to read LCD colour display and integrated printer
- Measurements without air inlet due to high quality test vessels (compatible with DTA 100 E test vessels)
- Precise setting of the electrode gap
- EMC shield for prevention of damage to EDP systems
- PC interface including software for controlling, recording and archiving measurements (option)

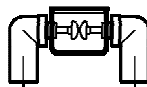
Technical data

Power supply	85 V to 264 V (47 Hz to 63 Hz)	Interface	USB 2.0
Power consumption	max. 70 VA	Printer	Matrix printer, 24 characters, 57 mm plain paper
Output voltage	0 to 100 kV _{eff} symmetrical	Ambient temperature	-10 to +55 °C
For insulating liquids with tan δ values	< 4.5 or specific resistance ρ > 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)	545 x 458 x 380 mm (closed) 545 x 770 x 461 mm (open)
Voltage monitoring	Real breakdown monitoring	Weight without options	39 kg
Internal temperature recording of the oil sample	0 to 99 °C	Protection class	IP 32
Temperature resolution	1 °C	Display	LCD colour display (320x240)
Accuracy	0 to 100 kV ± 1 kV	Programmable test sequences	10
Resolution	0.1 kV	Designed and manufactured according to the following standards	IEC 61010-1, EN 61010-1, VDE 0411 Part 1
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

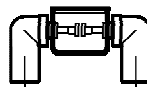
Test vessels (for selection)



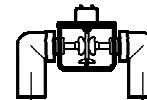
Test vessel 0.4 l in acc. with IEC 60 156 Fig. I with cover



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

- DTA 100 C oil tester
- Test vessel (1 unit / as chosen)
- Magnetic oil stirrer
- Lifting stick for magnetic stirrer
- Setting gauge
- Mains connection cable
- User Manual

Options

- PC interface and BAUR ITS oil testing software, incl. cable
- Transport case
- Dust cover
- Setting gauges 1/2/2.5/2.54/4/5 mm
- Ring nut wrench for disassembling the test vessel
- KA DPA/DTA C calibrator