

BAUR Oil tester

DTA 100 C

The powerful BAUR oil tester DPA 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 13 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 18 pre-programmed test standards and 10 user-programmable test sequences
- Built-in measurement of the temperature of the insulating liquid
- Illuminated test cell
- 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

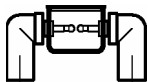
Power supply	85 V ... 264 V (47 Hz ... 63 Hz)
Power consumption	max. 70 VA
Output voltage	0 ... 100 kV _{eff} symmetrical
For insulating liquids with tan δ values	< 4.5 or specific resistance ρ > 30 MΩm
Voltage slew rate	0.5...10 kV/s
Switch-off time	< 10 μs
Voltage control	Real Breakdown Monitoring
Internal measurement of the oil sample temperature	0 ... 99 °C
Temperature resolution	1 °C
Display	LCD colour display (320x240)
Accuracy	0 ... 100 kV ± 1 kV
Resolution	0.1 kV
Languages	German, English, French, Spanish, Italian, Portuguese (Br), Portuguese (Pt) Dutch, Polish, Russian, Chinese (Cn), Chinese (Tw), Czech
Pre-programmed standards	ASTM D 1816-04 1 mm, ASTM D 1816-04 2 mm, ASTM D 877 / 87 PA, ASTM D 877 / 87 PB, BS EN 60156, CEI EN 60156, CSSR RVHP / 85, IEC 60156 / 1995-05, IRAM 2341 / 72, JIS C2101 / 78, PN 77 / E-04408, PA SEV EN 60156, UNE EN 60156, NF EN 60156, SABS EN 60156, VDE 0370 Part 5 / 96, AS1767.2.1, Individual measurement
Customer-specific programs	10
Interface	USB 2.0
Printer	Matrix printer, 24 characters, 57 mm Normal paper
Ambient temperature	-10 ... 55 °C
Storage temperature	-20 .. +60 °C
Relative humidity	Non condensing
Dimensions (W x H x D)	545 x 458 x 380 mm (closed) 545 x 770 x 461 mm (open)
Weight without options	39 kg
Degree of protection	IP 32
Designed and manufactured in acc. with the following standards	IEC 61010-1, EN 61010-1, VDE 0411 Part 1

Delivery includes

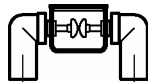
- Oil tester DTA
- One test vessel
- Magnetic oil stirrer
- Lifting stick for magnetic stirrer
- A setting gauge
- Mains connection cable
- User manual

Test vessels

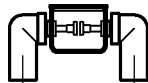
- Test vessel 0.4 l in acc. with IEC 60 156 Fig. I with cover



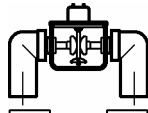
- Test vessel 0.4 l in acc. with IEC 60 156 Fig. II with cover



- 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



Options

- PC interface and BAUR testing software ITS 1.0 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