

BAUR Oil tester

DTL C

The BAUR DTL Oil tester is used for measuring the dissipation factor, the specific resistance and the relative permittivity of insulating liquids.



Features

- Dissipation factor measurement from 4.0 to 1×10^{-6}
- Measurement of the specific resistance with both polarities up to 100 TΩm
- Measurement of the relative permittivity ϵ_r
- Highly precise induction heating of the cell with accurate temperature control
- Functional design for high efficiency, user-friendliness and safety in case of minimum space requirement
- Test cell with safety ring, three electrodes and quartz glass rings
- Test cell according to IEC 60247 Fig. 3
- Automatic calibration of the empty cell for quick test sequences
- Emptying of the test cell possible without disassembly
- Direct temperature measurement by placing the sensor in the measurement electrodes
- Fully automatic measuring sequences from 8 pre-programmed test standards and 10 user-programmable test sequences
- User interface in 13 languages
- Ergonomic operating unit with oil-proof membrane keyboard, easy to read LCD colour display and integrated printer
- PC interface including software for controlling, recording and archiving measurements (option)

Technical data

	Range	Resolution
Dissipation factor measurement	4...1x10 ⁻⁶	1x10 ⁻⁶
Relative permittivity	1...30	1x10 ⁻²
Resistance measurement	2.5 MΩm...100 TΩm	1x10 ² (complete range)
Temperature measurement	11...110 °C	0.1 °C

General

Power consumption	500 VA
Display	Colour LCD, resolution 320x240
Languages	German, English, French, Spanish, Italian, Portuguese, Dutch, Polish, Russian, Chinese, Czech
Selectable programs	IEC-60247-2004, VDE-0380-Teil2-1996, ASTM-D924-03, AS-1767.1-1999, BS-148-1998, JIS-C2101-1999, ASTM-D1169-02, IEC-61620
Customer-specific programs	10
Interface	USB-2.0
Printer	Matrix printer, 24 characters, 57 mm Normal paper
Ambient temperature	-10...45 °C
Storage temperature	-20...+55 °C
Relative humidity	Non condensing
Dimensions	545 x 458 x 384 mm (closed) 545 x 770 x 465 mm (open)
Weight	28 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

Test cell IEC 60247 Fig. 3

Heating time	16 min. from 25 to 90 °C
Content	45 ml
Electric strength in air	2000 V _{eff}
Oil viscosity	<150 mm ² /s at 20 °C

Delivery includes

- DTL C Oil tester
- Hose for emptying the test cell
- Test cell IEC-60247-Fig.3 with transport case

- Temperature sensor
- Mains connection cable
- User manual

Options

- PC interface and BAUR testing software ITS 1.0 incl. Cable
- Transport case
- Dust cover