

## BAUR Oil tester DTL C

The BAUR DTL Oil tester DTL C 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  $1 \times 10^{-6}$
- Measurement of the specific resistance with both polarities up to 100 TΩm
- Measurement of the relative permittivity  $\epsilon_r$
- 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
- Calibration of the empty cell
- Emptying of the test cell possible without disassembly
- Direct temperature measurement by placing the sensor in the measurement electrodes
- Fully automatic measuring sequences from 12 pre-programmed test standards and 10 user-programmable test sequences
- User interface in 12 languages
- Ergonomic operating unit with oil-proof membrane keyboard, easy-to-read colour LCD display and integrated printer
- PC interface including software for controlling, recording and archiving measurements (option)

## Technical data

Dissipation factor measurement	Range	4 to $1 \times 10^{-6}$
	Resolution	$1 \times 10^{-6}$
Relative permittivity	Range	1 to 30
	Resolution	$1 \times 10^{-2}$
Spec. resistance measurement	Range	2.5 M $\Omega$ m to 100 T $\Omega$ m
	Resolution	$1 \times 10^{-2}$ (complete range)
Temperature measurement	Range	11 to 110 °C
	Resolution	0.1 °C

## General information

Max. power consumption	500 VA
Display	LCD colour display (320x240)
Languages	German, English, French, Spanish, Italian, Portuguese, Dutch, Polish, Russian, Chinese (Cn), Chinese (Tw), Czech
Pre-programmed standards	IEC 60247:2004 Standard, IEC 60247:2004 Routine, VDE 0380-2:2005_01 Standard, VDE 0380-2:2005_01 Routine, BS 5737:1979 Standard, BS 5737:1979 Routine, ASTM D924-08 Standard, ASTM D924-08 Routine, ASTM-D1169:2002 Standard, ASTM-D1169:2002 Routine, IEC 61620:1998-11, JIS C2101:1999
Programmable test sequences	10
Interface	USB 2.0
Printer	Matrix printer, 24 characters, 57 mm standard paper
Ambient temperature	-10 to +45 °C
Storage temperature	-20 to +55 °C
Relative humidity	Non-condensing
Dimensions (W x H x D)	545 x 458 x 384 mm (closed) 545 x 770 x 465 mm (open)
Weight	28 kg
Protection class	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

Content	45 ml
Electric strength in air	2000 V <sub>eff</sub>
Oil viscosity	<150 mm <sup>2</sup> /s at 20 °C

## Standard 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
- Dust cover
- User manual

## Options

- PC interface and BAUR ITS oil testing software, incl. cable
- Transport case
- TE C tester
- KA TD C calibrator