

# 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  $1 \times 10^{-6}$
- 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
- 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 <sup>-6</sup> | 1x10 <sup>-6</sup>                  |
| Relative permittivity          | 1...30                 | 1x10 <sup>-2</sup>                  |
| Resistance measurement         | 2.5 MΩm...100 TΩm      | 1x10 <sup>-2</sup> (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)<br>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 <sub>eff</sub>            |
| Oil viscosity            | <150 mm <sup>2</sup> /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