

PORTATEST A-3

The Portable Oiltester



Introduction

The PORTATEST A-3 is an automatic Breakdown Voltage Analyzer for mineral, silicon and ester oils. It's powerful HV-Source is additionally allowing testing of solid insulating materials like silicon plates, shrink tube etc. It has been designed for laboratory and field use.

The PORTATEST is very easy and straight forward in use.

Common national and international testing standards are stored in the memory and may be recalled via menu.

In addition up to 10 user programmable test sequences can be programmed and stored. Even complex step and hold tests are easily programmable.

After each test a test report can be printed via the built-in thermal printer. In addition to the standard used for the test, the print-out contains date, time, sample number, individual breakdown values, mean value and standard deviation.

The last 20 test reports can be stored in the tester for later recall and printout.

Test results can be transmitted to an external computer via the built-in RS232C or Bluetooth interface using the optionally available PrintCom7 Windows software.

Features

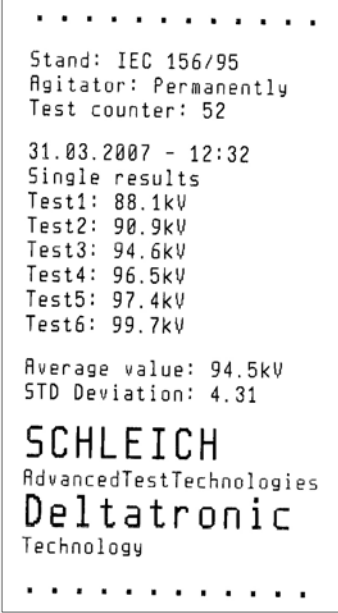
- Fully automatic Oil tester for laboratory and field use
- Suitable for testing **liquid and solid** insulation materials
- Testing voltage up to 100kV
- Pre-programmed for common national and international testing standards
- Up to ten free programmable user testing sequences
- Short switch off time < 1ms avoiding carbonisation of the sample
- Indication of individual breakdown values, average value and standard deviation
- Graphic-Display with backlight
- Clear operator guiding via four soft keys F1...F4
- Multi language menu, language selected via Setup menu
- PC-data storage via Bluetooth and serial interface RS232
- Glass test vessel with lid and magnetic stirrer
- Different electrodes available (mushroom, sphere or disc)
- Electrode spacing adjustable
- Integrated printer
- Steel metal housing for max. shielding

**precise . . .
save . . .
User friendly ->**

PORTATEST

Technical Data

Model PORTATEST Article-No.	80A-3 4018445	100A-3 4018444
Testing voltage:	80 kV rms	100 kV rms
Weight approx.	39 kg	
Dimensions (WxHxD):	503 (+70 carrying handles) x 450 x 390 mm	
Mains supply voltage:	110, 230, 240 V / 50 or 60 Hz - selectable via voltage selector	
Power consumption	Max. 900 VA	
Voltage measurement:	True RMS measurement, Resolution 0.1 kV, Accuracy ± 1 kV	
Temperature measurement:	0-99°C, Resolution 0.1°C, Accuracy ± 1 °C (optional temperature sensor required)	
Switch-off current/time	3.5 mA / <1ms	
Breakdown monitoring	Detecting insulating liquids with insulation resistance below 30 MOhms	
Voltage withstand tests:	Rate of rise, hold voltage and hold time selectable in 5 steps	
Rate of rise	0.1 ... 5 kV/s programmable, in automatic mode selected by testing standard	
Testing standards: selectable via menu	IIEC 60156/18 IEC 60156/18 Annex 1 VDE 0370/96 BS 5874/80 UTE C 27-221/74 UNE 21309/89 NEN 10156 SEV 3141/69 CEI 10-1/73 ASTM D1816/90 ASTM D877/90 JIS C 2101/99 JIS C 2101/99 Silicon EN 60243-1 ASTM D 149 JIS C 2110-1 additionally 10 User testing sequences freely programmable	
Display:	LCD Graphic display with backlight	
Printer:	Built in Thermal - Printer, 24 Characters/line	
Stirrer:	Magnetic stirrer, PTFE-bar	
Sample No.:	Successive Number or entered by operator before starting the test	
Date and time:	Built in clock with calendar function	
Interface:	Bluetooth® and Serial Interface RS 232C on the front panel	
Max. temperature:	Operation 0 to 50°C, storing -20° to +50° C	
Humidity:	Non-condensing	



Standard accessories

- Oil test vessel glass 0.4 lit complete with Electrodes requested.
- Mains connecting cable.
- PTFE stirrer bar, 2 pcs.
- Gap gauge 2.0 and 2.5 mm.
- Lift-off stick for stirrer bar.
- Spare paper roll for printer, 2 pcs.
- Operating manual.

Optional accessories

- Spare paper rolls, 10 rolls for thermal printer
- Spare electrodes mushroom (VDE), Sphere 12.5 mm or Disc 1" according to ASTM D877
- Temperature sensor PT100 for sample temperature
- PrintCOM 7 Software

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DELTATRONIC Technology GmbH
 Tobelgasse 1
 A-6850 Dornbirn / Austria
 Tel +43 5572 29005
 Fax +43 5572 29005-99
 eMail sales@deltatronic.com
 Web www.deltatronic.com

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