PortaTest | Insulating Oil and Insulating Material Tester

RS232

PC

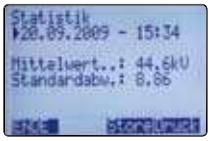
Print

Highlights

- fully automatic insulating oil tester
- test voltages 60KV, 80KV and 100KV
- test of insulating materials
- variable test voltage and variable test voltage rise
- integrated test sequence according to national and international standards
- storage potential for ten user-defined test sequences
- filament formation is avoided by a short switch-off time with current switch-off < 1ms
- average value display and display of single disruptive breakdown values
- magnetic stirrer
- integrated normal paper protocol printer
- different test electrodes
- graphic display with background light
- clear user navigation via four functional buttons
- entry of the sample number and temperature
- PC-software PrintCom to save and print test results

PortaTest testers determine the disruptive breakdown of insulating oils and materials fully automatically. Due to their compact structure, the PortaTest testers can be used on site as well as in laboratories. Owing to their large swiveling protection cover, the test vessel can be comfortably and safely placed on the high-voltage electrodes in the test chamber.

Our oil testers are characterized by high user-friendliness. The operator can select the respective test program by means of the test standard and the tester directly shows which test electrode and which electrode distance is to be selected for this test. A setting gauge facilitates to adjust the distance of the electrodes. The process of the test sequences is performed fully automatically.



Owing to the graphic display the operation is very comfortable. With the four function buttons below the display you can select a test standard, enter data and configure your own test sequences or the tester itself.

When you receive the tester it already includes test sequences that correspond to all current national and international standards and test specifications. In addition, you can define up to ten further test sequences and save them in the tester.

Integrated test processes

- 16 standard test sequences consistent with the international test standards
- 10 freely programmable test sequences
- short test program for a quick status evaluation (5min test period)
- overload test, single disruptive breakdown test
- withstand voltage test (1min - 24h) with programmable rise speed
- step test (1 - 10 steps)

PortaTest testers can label the oil samples automatically with a consecutive number. However, the operator is also able to use his own number identification.

A detailed test protocol is printed on the integrated printer after each test. Besides the used test standard this protocol also includes information regarding date, time, sample number, single disruptive breakdown values as well as an average value and the standard deviation.

If needed the test results can also be transferred from the tester to the PC via our PrintCom software saved or be combined in test protocols. In order to be able to process the data in an optimal way PrinCom saves all data in an Excel® format.

PortaTest standard testers

article number	4018300	4018301	4018302
test voltage	60KV	80KV	100KV
voltage measurement TRMS (true r.m.s. measurement)	●		
voltage rise	0.1…10KV/s		
test standard: IEC 156/95, VDE 370/96, BS 5874/80, UTE C27-221/74, UNE 21309/89, NEN 10156, SEV 3141/69, CEI 10-I/73, ASTM-D 1816/90, ASTM-D 877/90, ASTM-D 149/97 JIS 2101-82, JIS Si 2101/82, JIS C 2123, IS 6855/92, EN 60243-1	●		
standard test sequences	16		
freely programmable test sequences	10		
withstand voltage measurement	●		
step voltage measurement	●		
switch-off time at disruptive breakdown	<1ms		
magnetic stirrer (can be switched on / off) incl. draft angle for stirring staff	●		
matrix printer 40 characters/line	●		
test vessel made of glass (0.4l) with 1 pair electrodes upon request	●		
setting gauge	●		
integrated clock with date and battery buffer	●		
mains voltage supply	230V - 240V | 50Hz - 60 Hz		
special voltage supply 110V | 60Hz	○		
work and storage temperature	0°…50°C | -20°…50°C		
dimensions (w x l x h mm)	580 x 370 x 400		

● standard | ○ option

PortaTest accessories

article number	
4018303	test vessel with 1 pair spherical electrodes (ball electrode) | 0.4 liter
4018305	test vessel with 1 pair cylindrical electrodes (ball electrode) | 0.4 liter
4018306	test vessel with 1 pair cylindrical electrodes (ball electrode) | 0.4 liter