

D200

Automatic Oil
Tan Delta Tester

Automatic Oil Tan Delta Tester **D200** is designed for automatic measurement of Tan delta ($\text{tg}\delta$), relative permittivity (ϵ_r), specific resistance (ρ) of the transformer oil and other liquid electrical insulating materials



FEATURES AND BENEFITS

- Automatic performance of a full series of measurements in accordance with IEC 60247
- Monoblock design
- High accuracy of measurements
- Small volume of oil to perform the test
- Design of test cell is three-electrode flat type
- Convenient cell design for quick disassembly and thorough cleaning
- High test productivity due to special algorithm of test cell heating and active cooling
- High accuracy of oil temperature measurement
- Control of the measurement process using the LCD touchscreen display

- Saving test results in the Tester archive
- Transferring the archive from the Tester's memory to a PC using a standard USB flash drive
- Small dimensions and weight

APPLICATIONS

D200 is used by:

- electrotechnical laboratories monitoring the characteristics of transformer oil and other liquid dielectrics
- in production workshops, stationary and mobile laboratories

TECHNICAL SPECIFICATIONS

	Range	Accuracy
Measured values		
Tan delta (tgδ)	0,0001 ... 1,0	± (0,003·tgδ+0,0002)
Relative permittivity (εr)	1...15	± 3 %
Specific resistance (ρ)	107 ... 1012 Ω·m	± 3 %
	1012 ... 1013 Ω·m	± 10 %
Settable values		
Test AC voltage	2000 V	± 2,5 %
Test voltage frequency	50 Hz	± 0,1 Hz
Test DC voltage	500 V	± 2,5 %
Test oil temperature	70 ... 90 °C	± 1 °C
Measurement time		
Oil sample test time, including heating to 90 °C and measurement,		25 minuts
Oil sample test time, including heating to 90 °C, measurement and cooling down to 50°C, no more then		40 minuts

Power supply	
Rated voltage	~220/230 V
Rated frequency	50 or 60 Hz
Power consumption	no more than 200 V·A
Working conditions	
Temperature	10 ... 40 °C
Relative air humidity	up to 80 % at 25 °C without condensation




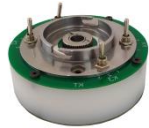
Conformity to standards	
Electrical safety	EN 61010-1
Elecromagnetic compatibility	EN 61326-1

Overall dimensions (W×H×D)	400 × 110 × 300 mm
Weight	no more then 12 kg

Test cell parameters	
Design of test cell	three-electrode flat type
Test cell volume	(18 ± 1) sm ³
Material: Cell body Cell insulation	Stainless steel type 12X18H10T Teflon type Φ4
Electrode spacing	(2 ± 0,1) mm

Guaranteed service life	24 months from the day of sale
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ORDERING INFORMATION

No	Item Name (Qty)	Part no.	
Basic package			
1	D200 Automatic Oil Tan Delta Tester	D200.100	
2	Power Cord	10 A EU (CEE 7/XVII-C13)	
3	Test Cell (2 pcs.)	D200.200	
4	Operating manual	D200 OM	
5	Passport	D200 P	
6	Transport box	D200.900	
Additional order			
7	Verification methodology	D200 VM	
8	Calibration Cell	T400.000.000.000	

OLTEST LLC

Development and production
of measurement devices

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