

PDTech Dielectric Response Analyzer (DRA-3)



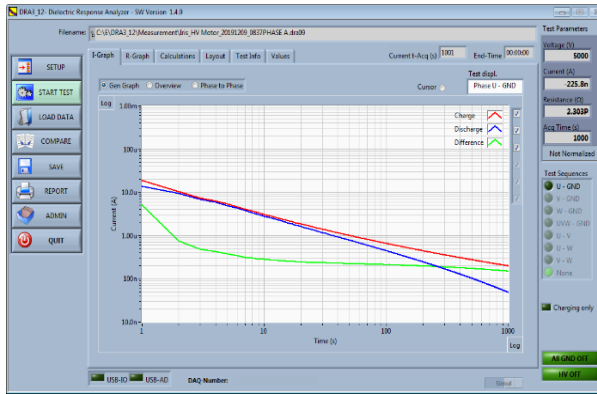
FOR OFF-LINE INSULATION DIAGNOSIS OF GENERATOR AND MOTOR WINDINGS

The dielectric response analyzer is used for off-line insulation diagnosis for generators and motors and is also applicable to transformers. It measures the charging and discharging currents (also called polarization and depolarization currents or PDC) of the winding of stator or rotor insulation. The resulting measurement provides information on the condition of machine insulation, such as, cleanliness, ageing, resin decomposition and resin cure.

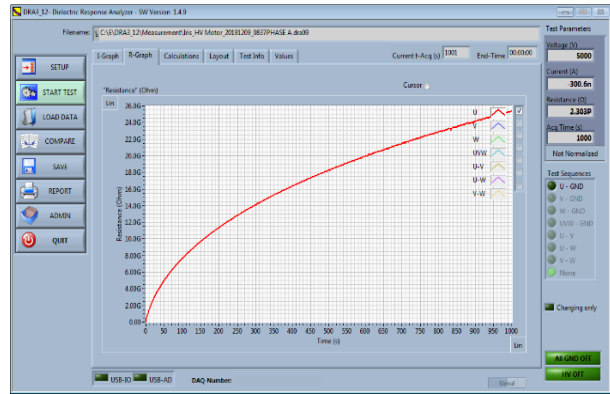
The PDTECH DRA-3 System allows you to connect all three phases and the ground at one time. The phases are measured sequentially step by step, without any interaction from test personnel. The measurement steps are automatically controlled and stored by a computer connected to the instrument.

The PDTECH DRA-3 System also allows the possibility to measure all three phases together to ground, each phase separately and between the phases.

Once data is stored, it can be analyzed by the evaluation program in order to get a complete report of the measurement including standard parameters such as insulation resistance, polarization index, etc. PDTECH DRA-3 provides Insulation Resistance Profiling (IRP) and automatic temperature correction as described in IEEE 43.



Polarization-Depolarization Currents Comparison



Insulation Resistance Profiling

SPECIFICATIONS	
Input Voltage	Universal 90 to 240 VAC
High Voltage Output	Integrated floated DC high voltage source, up to 10 kV, preset voltages 0.5, 1, 2.5, 5 and 10 kV
Shunt for Current Measurement	100 kOhm
Current Measurement Range	1 mA to 0.1 nA, resolution 1 pA
DRA-3 Dimensions	50 x 38 x 20.3 cm (20" x 15" x 8")
DRA-3 Weight	11.34 kg (25 lb)
Carrying Case Dimensions	71 x 69 x 41 cm (28" x 27" x 16")
Carrying Case Weight	31.3 kg (69 lb)

SOFTWARE	
Data Acquisition	Fully automatic for measurement: separate phase to ground, all phases together, and between phase analysis
Evaluation	Automatic calculation of parameters as polarization index, insulation resistance, absorption index, etc
Comparison	Included software for comparison of up to 4 different measurements
Data Report	Automatic report generation in Microsoft Excel 2000 and above

KIT CONTENTS:

- DRA3 instrument
- Transit Case
- Power Cable
- 4 HV Cables
- 3 Red Alligator Clips
- 1 Black Alligator Clip
- A 5 m USB Cable
- Operating Manual
- Software Kit CD

ORDER — HVDR: DRA 3 Dielectric Response Analyzer, charging/ discharging current measurement, up to 10 kV

GET IN TOUCH

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