

DIELECTRIMETER

DEFINITION

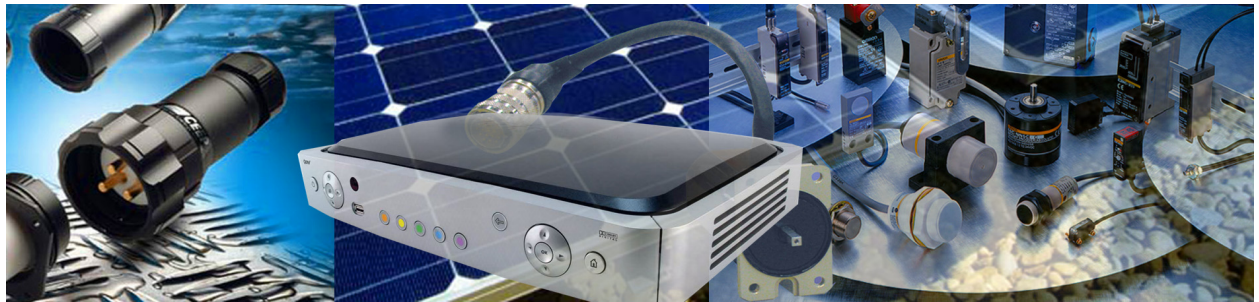
A DIELECTRIMETER IS A COMBINATION OF 2 EQUIPMENTS DEDICATED FOR 2 FUNCTIONS

- a megohmmeter, made to measure insulation resistance, high resistances
- a hipot tester to make a high voltage test (also called dielectric strength test, hipot test, hi-pot test, breakdown test or flash test)

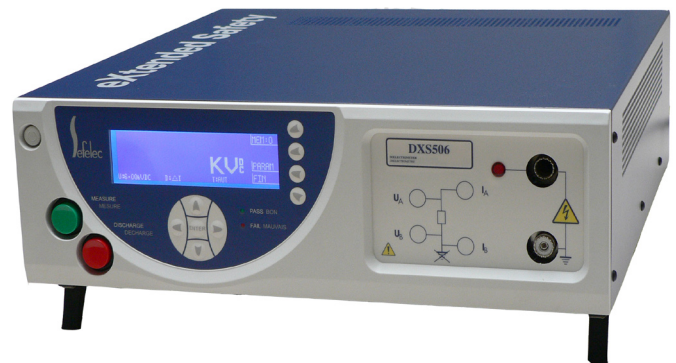
The dielectrimer can do automatically and successively those 2 above tests, as hipot then megohm, megohm then hipot, or megohm then hipot then megohm again. This last test is the ideal one, which ensures that the high voltage test has not been damaging anything on the device under test.

APPLICATION

MANUFACTURER, LABORATORY, HIGH SPEED PRODUCTION, MAINTENANCE, IN ORDER TO COMPLY WITH THE LOW VOLTAGE DIRECTIVE



- ▶ cable manufacturer (measures made on reel, on cable samples, ... > shielding against wires)
- ▶ transformers
- ▶ components (capacitors, resistances, sensors, ...)
- ▶ aeronautic, aerospace sub assemblies (satelites panels, ...)
- ▶ connectors, switches, activators, ...
- ▶ test laboratories
- ▶ car industry (splices, electric engines, pumps, ...)
- ▶ satellite receivers, decoders, television receivers, ...
- ▶ solar panels (test in between current output and the frame)



SPECIFICATION OVERVIEW

FROM LABORATORY TO PRODUCTION TESTING, OUR RANGE COVERS THE FOLLOWING SPECIFICATIONS

- ▶ resistance measurement up to 2 TΩ
- ▶ insulation test with DC Voltage from 1V up to 1000 VDC (1V steps)
- ▶ hipot test with our "delta I" exclusive detection type for non destructive testing, up to 5 kVAC, 6 kVDC
- ▶ 1 single output connexion for 2 tests done in automatic testing
- ▶ possible destructive hipot testing (for investigation and laboratory use) and hipot at operating temperature
- ▶ GPIB, RS232, Ethernet, 0-10V, PLC available
- ▶ SXS Pro software for quality purposes, traceability and professional reporting

SELECTOR GUIDE

From the below board select the right product according to your application

Sefelec dielectrimeter range	AC Dielectric strength test (hipot test)	DC Dielectric strength test (hipot test)	AC/DC Dielectric strength test current (hipot test)	Megohmmeter Resistance	Megohmmeter Voltage	Interface	Software (in option)
PREMIER 2725A	5kV	No	40mA AC	up to 2GΩ	50/100/500/1000VDC	RS232 in option	No
PREMIER 2735A	5kV	6kV	40mA AC 10mA DC	up to 2GΩ	50/100/500/1000VDC	RS232 in option	No
DXS50	5kV	No	10mA AC	50kΩ-200 GΩ 2TΩ in option	10...500VDC (1V steps) 1000VDC in option	RS232 included GPIB, PLC, Ethernet in option	SXS Pro
DXS56	5kV	6kV	10mA AC 4mA DC	50kΩ-200 GΩ 2TΩ in option	10...500VDC (1V steps) 1000VDC in option	RS232 included GPIB, PLC, Ethernet in option	SXS Pro
DXS500	5kV	No	110mA AC	50kΩ-200 GΩ 2TΩ in option	10...500VDC (1V steps) 1000VDC in option	RS232 included GPIB, PLC, Ethernet in option	SXS Pro
DXS506	5kV	6kV	110mA AC 40mA DC	50kΩ-200 GΩ 2TΩ in option	10...500VDC (1V steps) 1000V in option	RS232 included GPIB, PLC, Ethernet in option	SXS Pro
MPC47M	6kV	6kV	5mA AC 5mA DC	500kΩ-2TΩ	45/100/250/500VDC	GPIB (MPC47P), PLC in option	No

For product detailed datasheet, options and accessory details, or for more technical information about insulation resistance & high voltage test, go to our website
All our equipment are delivered with data measurement, calibration certificate, CE mark certificate and user manual

SEFELEC ADDED VALUES

- ▶ 2 functions in 1 single tester
- ▶ delta I detection for breakdown predictive mode (for anticipating problem, on a production)
- ▶ automatic testing + ethernet communication for production use
- ▶ a wide range of professional accessories in order to fit most of our customer needs

For more information on Sefelec products, applications or services, please contact your local Sefelec office.

The complete list is available at :

http://www.sefelec.com/carte_en.html



Specifications subject to change without notice
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