

Since 50 years, we manufacture devices for production and laboratory testing

DEFINITION

A DIELECTRIMETER IS A COMBINATION OF 2 DEVICES 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 dielectrimeter 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 VOLATGE DIRECTIVE

- cable manufacturer (measurement made on reel, on cable samples, ... shielding against wires)
- transformers
- components (capacitors, resistors, sensors,...)
- aviation, 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)
- wind turbines

SPECIFICATION OVERVIEW

FROM LABORATORY TO PRODUCTION TESTING, OUR RANGE COVERSTHE FOLLOWING SPECIFICATIONS

- resistance measurement up to 2 Ω
- insulation test with DC Voltage from 10 V up to 1000 V (1 V steps)
- hipot test with our "delta I" exclusive detection type for non destructive testing, up to 5 kV AC, 6 kV DC
- 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, 0-10 V, PLC available

• get our latest software platform for quality purposes, traceability and professional reporting



Technical specifications

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
DXS50	100 V to 5 kV	No	10 mA AC	50 k Ω -200 G Ω 2T Ω in option	10...500 V DC (1 V steps) 1000 V DC in option	RS232 included GPIB, PLC, Ethernet in option	Yes in option
DXS56	100 V to 5 kV	100 V to 6 kV	10 mA AC 4 mA DC	50 k Ω -200 G Ω 2T Ω in option	10...500 V DC (1 V steps) 1000 V DC in option	RS232 included GPIB, PLC, Ethernet in option	Yes in option
DXS500	100 V to 5 kV	No	110 mA AC	50 k Ω -200 G Ω 2T Ω in option	10...500 V DC (1 V steps) 1000 V DC in option	RS232 included GPIB, PLC, Ethernet in option	Yes in option
DXS506	100 V to 5 kV	100 V to 6 kV	110 mA AC 50 mA DC	50 k Ω -200 G Ω 2T Ω in option	10...500 V DC (1 V steps) 1000 V DC in option	RS232 included GPIB, PLC, Ethernet in option	Yes in option
PREMIER 2803	100 V to 5 kV	100 V to 6 kV	40 mA AC 10 mA DC	up to 9.5 G Ω	1000 V DC	RS232, USB, signal I/O included	No

For product datasheet, options and accessory details, or for more technical information, go to our website www.sefelec.com

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