

M1501 series, the most famous solution for cable manufacturers

DEFINITION

A MEGOHMMETER IS A HIGH RESISTANCE METER DEDICATED TO MEASURE AN OHMIC VALUE UNDER A DIRECT VOLTAGE OF GREAT STABILITY.



• to measure a high value resistance, techniques for measuring a low value current are used. A constant voltage source (DC Voltage) is applied to the resistance to be measured and the resulting current is read on a highly sensitive ammeter circuit that can display the resistance value (in M Ω , G Ω , T Ω)

A megohmmeter is also called a high resistance tester, a teraohmmeter, a megger, a high insulation tester

APPLICATION

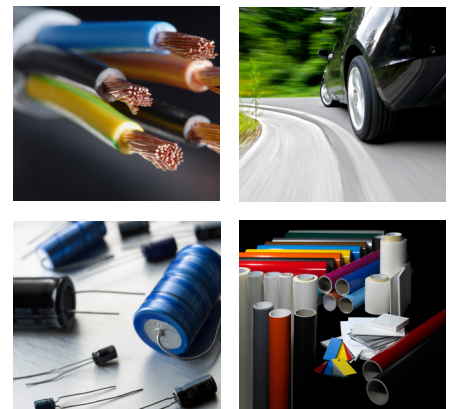
MANUFACTURER, LABORATORY, HIGH SPEED PRODUCTION, MAINTENANCE.

- cable manufacturer (measurement made on reel, on 1m cable samples, ... shielding against wires)
- transformers, coils, electrical motors
- components (capacitors, resistors, ...)
- aeronautic, aerospace sub assemblies (satellites panels, ...)
- connectors, switches
- test laboratories (insulated materials such as paper, ceramic, plastics, ...)
- car industry (splices, cable samples in salty water, ...)
- printed circuit boards

SPECIFICATION OVERVIEW

FROM PORTATIVE TO DESKTOP SOLUTIONS, FROM HAND USE TO REMOTE CONTROLLED USE, OUR RANGE COVER THEM ALL.

- resistance measurement up to 2000 T Ω
- DC Voltage from 1 V up to 1500 V DC (1 V steps), in option up to 70 kV DC
- picoammeter function from 0.1 pA
- GPIB, RS232, 0-10 V, PLC available
- high accuracy down to 0.2 %
- surface and resistance measurement according to DIN53482, VDE0303, IEC93 with our SRE24 probe



Technical specifications

Selector guide

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

Sefelec Megohmmeter range	Resistance range	DC voltage	Resistance Accuracy	Pico-ammeter	Interface	Software	Portative
M1501P	100 Ω - 2000TΩ	1 - 1500 (1 V steps) option up to 70 kV DC	0.2 %	0.01 pA-20 mA	GPIB included, PLC, 0-10 V in option	yes in option	No
M1501M	100 Ω -2000TΩ	1-1500 (1 V steps) option up to 70 kV DC	0.2 %	0.01 pA-20 mA	RS232, PLC, 0-10 V in option	yes in option	No
M1501U	5 kΩ - 20TΩ	10 - 1500 (10 V steps)	0.2 %	50 pA-20 mA	No	No	No
MXS1000	50 kΩ - 200 GΩ 2TΩ in option	20-1000 (1 V steps)	±(1.5 % + 1u)	No	RS232 included, GPIB, PLC, Ethernet in option	yes in option	No
MXS500	50 kΩ - 200 GΩ 2TΩ in option	10-500 (1 V steps)	±(1.5 % + 1u)	No	RS232 included GPIB, PLC, Ethernet in option	yes in option	No
CA6547	30 kΩ - 10TΩ	500, 1000, 2500, 5000	5 %	No	RS232	No	Yes
CA6545	30 kΩ - 10TΩ	500, 1000, 2500, 5000	5 %	No	No	No	Yes
CA6543	2 kΩ - 2TΩ	50, 100, 250, 500, 1000	5 %	No	RS232	No	Yes
CA6541	2 kΩ - 2TΩ	50, 100, 250, 500, 1000	5 %	No	No	No	Yes

REMA Series

we also manufacture a wide range of high value standard resistors from 1 MΩ to 100TΩ

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

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