

1-800-GRAINGER (472-4643)



Milliohm Meters and Micro-Ohm Meters

Measure resistance of motor coils, circuit breaker contacts, transformers, and printed circuit board layouts. Test leads have Kelvin clip connectors.

AEMC—5GTJ1 has a polarity reversal switch for bidirectional testing and features overload and input fuse protection. Stores up to 99 test results. DataView software included.

Seaward Cropico—4-terminal measurement with automatic or manual current range selection and open circuit lead warning LED. 39N142 measures temp. from -50° to 800°C, with automatic temperature compensation.

Extech 1XU20—High-resolution instrument provides 7 resistance ranges, with automatic zero and built-in comparator for Hi/Lo/Go resistance testing or selection.

Extech 4PC52 and 5ZR91—Precision testers feature manual zero display adjust and over-range indication.

Extech 1XU18—Overtemperature/overvoltage protection, plus invalid test indicators and auto-hold.

Megger 4WXR6—Power limited ranges, high power outputs, and 10A duty cycle ranges, with high noise immunity and up to 600V protection between terminals.

Megger 1APD9 and 1APE1—Low-resistance testers average forward and reverse readings and provide manual current selection or automatic testing of contact resistance and bonds. 1APE1 features selectable high/low test limits and stores up to 700 time-stamped tests to download via RS-232 interface.



Resistance Range	Resolution	Accuracy	Output Current	Display	Power Source	Safety Rating	NIST	Mfr. Model	Item No.
AEMC									
4 milliohm to 400 ohm	5 Milli Ohm to 400 Ohm	+/-0.25%	10mA to 10A	Backlit Dual Line LCD	NiMH Battery	CAT III 50V	No	6240	5GTJ1
Amprobe									
0 to 2000 ohm	100u Ohms to 1 Ohms	+/-0.5%	1mA to 100mA	LCD	(8) AA Batteries	—	No	MO-100	6NZH3
Cropico									
40 milliohm to 4000 ohm	10 Micro Ohm to 1 Ohm	+/-0.05%	100uA to 100mA	LCD	Battery	—	Yes	DO4000	39N141
40 milliohm to 4000 ohm	10 micro Ohm to 1 Ohm	+/-0.05%	100uA to 100mA	LCD	Battery	—	Yes	DO4001	39N142
4 milliohm to 400 ohm	1 Micor Ohm to 100 Milli Ohm	+/-0.05%	1mA to 1A	LCD	Battery	—	Yes	DO4002	39N143
Extech									
20 milliohm to 20 kilohm	0.01m Ohms to 0.01K Ohms	+/-0.2%	10uA to 1A	LED	120V AC 60Hz	—	No	380560	1XU20
200 milliohm to 2000 ohm	0.1 Ohms to 1 Ohms	+/-0.5%	1mA to 100mA	LCD	(8) AA Batteries	—	No	380580	1XU18
200 milliohm to 2000 ohm	100u Ohms to 1 Ohms	+/-0.75%	1mA to 100mA	LCD	120 V AC 60 Hz	—	No	380460	4PC52
200 milliohm to 2000 ohm	100u Ohms to 1 Ohms	+/-0.75%	1mA to 100mA	LCD	120 V AC 60 Hz	—	Yes	380460-NIST	5ZR91
Megger									
0 to 2500 ohm	0.1u Ohms	+/-0.2%	0.1mA to 10A	Backlit LCD	NiMH Battery or Line	CAT III 300 V	No	DLR010HD	4WXR6
1.9999 milliohm to 1999.9 ohm	0.1u Ohms to 100m Ohms	+/-0.2%	100uA to 10A	LED	NiMH Battery	CAT III 600V	No	DLRO-10	1APD9
1.9999 milliohm to 1999.9 ohm	0.1u Ohms to 100m Ohms	+/-0.2%	100uA to 10A	Backlit LCD	NiMH Battery	CAT III 600V	No	DLRO-10X	1APE1



1kVDC Digital Megohmmeters

Each includes test leads and batteries.

Amprobe 1WXG3—Programmable timer for dielectric absorption ratio test plus analog bar graph, internal data logging, and 2.5 times/sec. sampling rate.

Extech 1YB54—Stores up to 9 readings. Live circuit display warning and beeper. Automatic discharge of capacitive voltage charges.

Extech 1YB52—DC/AC voltage testing. Features continuity buzzer, low resistance function, data hold and lock on.

Megger 2MY34—Combines digital measurement with an analog arc for installation testing, preventive maintenance, and commissioning. Continuity buzzer.

Megger 2MY17—IP54 weather-resistant, with default voltmeter function, continuity buzzer, and live circuit protection.



Output Test Voltage	Insulation Resistance Range	Live Circuit Detection	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
Amprobe										
250/500/1000V DC	4/40/400/4000 megohm	0 to 600V AC/V DC	0 to 4000 ohm	Digital LCD	Yes	Yes	(8) AA Batteries	CAT III 600V	AMB-45	1WXG3
Extech										
250/500/1000V DC	0.001M to 10 gigohm	1 to 999V AC/V DC	0.01 to 1k ohm	Digital LCD	Yes	No	(6) AA Batteries	CAT III 1000V	380363	1YB54
250/500/1000V DC	1000 megohm, 200 megohm, 2000 megohm	750V AC/1000V DC	200 kilohm, 200 ohm	LCD	Yes	No	(6) AA Batteries	CAT III 1000V	380260	1YB52
Megger										
250/500/1000V DC	10K to 1000 megohm	0 to 600V AC/V DC	0 to 100 ohm	Digital LCD	Yes	Yes	(6) AA Batteries	CAT III 600V	MIT230	2MY34
250/500/1000V DC	10K to 1000 megohm	0 to 600V AC/V DC	0 to 99.9 ohm	Digital LCD	Yes	Yes	(8) AA Batteries	CAT III 600V, CAT IV 300V	MIT310	2MY17



Digital Megohmmeters with Built-In Multimeter

Each includes test leads, alligator clips, and batteries.

5URG2—DC/AC voltage testing. Has short circuit current protection and high voltage warning, polarization index (PI), dielectric absorption ratio (DAR), comparison function, data logging, sleep mode, and timer. USB compatible.

Megger 49AG72 and 49AG74—DC/AC true RMS voltage testing with stabilized test voltage for fast, accurate measurements. Feature high insulation range and digital/analog arc display. 49AG74 has PI and DAR tests, plus variable test voltage. Stores more than 1000 test results.

5URG2



Output Test Voltage	Insulation Resistance Range	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
Megger									
50/100/250/500/1000V DC	0 to 200 gigohm	0.1 to 999.9 ohm	Backlit LCD	Yes	Yes	(6) AA Batteries	CAT IV 600V	MIT420/2	49AG74
250/500/1000V DC	0 to 200 gigohm	0.1 to 999.9 ohm	Backlit LCD	Yes	Yes	(6) AA Batteries	CAT IV 600V	MIT400/2	49AG72
Approved Vendor									
100/250/500/1000V DC	0.1M to 10 gigohm	0.1 to 999.9 ohm	Backlit LCD with Bar Graph	Yes	Yes	1.5V Battery	CAT III 600V	—	5URG2

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