2014 TEST & MEASUREMENT INSTRUMENTS

- Cable Testers
- Clamp-On Meters
- Current Measurement Probes
- Data Loggers
- DC Power Supplies
- Decade Boxes
- Digital Multimeters
- Electrical Test Tools
- Environmental Testers
- Ground Resistance Testers
- High Voltage Testers
- Leakage Current Meters and Probes
- **Megohmmeters**
- Micro-Ohmmeters
- Oscilloscopes
- Power Quality Analyzers, Meters and Energy Loggers
- Transformer Ratiometers
- Other Products from the Chauvin Arnoux Group

Megohmmeters

Our products are backed by over 100 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.

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AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

MEGOHMMETERS
Selection Chart

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	TEST VOLTAGE	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE DETECTION	POWER SOURCE	DISPLAY
1030	2116.89	250V 500V	50kΩ to 2GΩ 100kΩ to 2GΩ	—	0.00 to 19.99Ω	—	0 to 600VAC/DC	Battery	Digital/ Analog
1035	2116.90	50V 100V 250V 500V	10kΩ to 2GΩ 20kΩ to 2GΩ 50kΩ to 20GΩ 100kΩ to 20GΩ	0.0 to 400kΩ	—	—	0 to 600VAC/DC	Battery	Digital/ Analog
1035 Field Kit	2115.42	50V 100V 250V 500V	10kΩ to 2GΩ 20kΩ to 2GΩ 50kΩ to 20GΩ 100kΩ to 20GΩ	0.0 to 400kΩ	—	—	0 to 600VAC/DC	Battery	Digital/ Analog
1039	2116.91	50V 100V	10kΩ to 400MΩ 20kΩ to 400MΩ	0.0 to 40.0kΩ	—	0 to 4000nF	0 to 600VAC/DC	Battery	Digital/ Analog
1040	2116.92	500V 1000V	100kΩ to 2GΩ 200kΩ to 2GΩ	0.0 to 400kΩ	0.00 to 19.99Ω	—	0 to 600VAC/DC	Battery	Digital/ Analog
1045	2116.93	250V 500V 1000V	50kΩ to 2GΩ 100kΩ to 2GΩ 200kΩ to 2GΩ	0.0 to 400kΩ	0.00 to 19.99Ω	—	0 to 600VAC/DC	Battery	Digital/ Analog
1040 Field Kit	2117.30	500V 1000V	100kΩ to 2GΩ 200kΩ to 2GΩ	0.0 to 400kΩ	0.00 to 19.99Ω	—	0 to 600VAC/DC	Battery	Digital/ Analog
1045 Field Kit	2117.31	250V 500V 1000V	50kΩ to 2GΩ 100kΩ to 2GΩ 200kΩ to 2GΩ	0.0 to 400kΩ	0.00 to 19.99Ω	—	0 to 600VAC/DC	Battery	Digital/ Analog
1050	2130.01	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 4000GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	0.01 to 400kΩ	0.01 to 39.99Ω	0.005 to 4.999µF	0 to 1000VAC/DC	Battery	Digital/ Analog
1060	2130.03	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 4000GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	0.01 to 400kΩ	0.01 to 39.99Ω	0.005 to 4.999µF	0 to 1000VAC/DC	Rechargeable NiMH Battery	Digital/ Analog
6505	2130.18	500V 1000V 2500V 5000V	30kΩ to 2000GΩ 100kΩ to 4000GΩ 100kΩ to 10,000GΩ 300kΩ to 10,000GΩ	—	—	0.005 to 49.99µF	2500VAC 4000VDC	Rechargeable NiMH Battery	Digital/ Analog
5050	2130.20	500V 1000V 2500V 5000V	30kΩ to 2TΩ 100kΩ to 4TΩ 100kΩ to 10TΩ 300kΩ to 10TΩ	—	—	0 to 49.99µF	2500VAC 4000VDC	Rechargeable NiMH Battery	Digital/ Analog
5060	2130.21	500V 1000V 2500V 5000V	30kΩ to 2TΩ 100kΩ to 4TΩ 100kΩ to 10TΩ 300kΩ to 10TΩ	—	—	0 to 49.99µF	2500VAC 4000VDC	Rechargeable NiMH Battery	Digital/ Analog
5070	2130.30	500V 1000V 2500V 5000V	30kΩ to 2TΩ 100kΩ to 4TΩ 100kΩ to 10TΩ 300kΩ to 10TΩ	—	—	0 to 49.99µF	2500VAC 4000VDC	Rechargeable NiMH Battery	Graphic/ Digital
6501	2126.51	500V	0.5 to 200MΩ	0 to 500kΩ	0 to 100Ω	—	0 to 600VAC	Hand-cranked	Analog
6503	2126.52	250V 500V 1000V	1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ	—	—	—	0 to 600VAC	Hand-cranked	Analog
6527	2126.53	250V 500V 1000V	1kΩ to 4GΩ 1kΩ to 4GΩ 1kΩ to 4GΩ	0.0 to 400.0kΩ	0.00 to 400Ω	—	0 to 600VAC 0 to 1000VDC	Battery	Digital/ Analog
6550	2130.31	500V 1000V 2500V 5000V 10,000V	10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ	—	—	0.001 to 9999µF 10.00 to 49.99µF	0 to 2500VAC 0 to 4000VDC	Rechargeable NiMH Battery	Digital/ Analog
6555	2130.32	500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ 10kΩ to 30,000GΩ	—	—	0.001 to 9999µF 10.00 to 49.99µF	0 to 2500VAC 0 to 4000VDC	Rechargeable NiMH Battery	Digital/ Analog

Models 6501 & 6503

Designed for acceptance testing and preventive maintenance of wiring, cables, switchgear and motors

Low Cost!

▶SPECIFICATIONS

MODELS		6501	6503
INSULATION TESTS			
Test Ranges*	250V	–	1 to 11MΩ; 11 to 500MΩ
	500V	0.5 to 5.5MΩ; 5.5 to 200MΩ	1 to 11MΩ; 11 to 500MΩ
	1000V	–	10 to 110MΩ; 110 to 5000MΩ
Short Circuit Current		5mA (max)	
Voltage Measurement/ Safety Check		0 to 600VAC	
Accuracy (MΩ)		2.5% of Full Scale Length	
Automatic Discharge		5s/µF	8s/µF
Charge Time	250V	–	0.2s/µF
	500V	0.5s/µF	0.5s/µF
	1000V	–	0.5s/µF
RESISTANCE TESTS			
Measurement Range		0 to 45kΩ; 45 to 500kΩ	–
Test Current		1mADC	–
Accuracy		2.5% of Full Scale Length	–
CONTINUITY TESTS			
Measurement Range		0 to 9Ω; 10 to 100Ω	–
Test Voltage		5mADC (10V max)	–
Accuracy		2.5% of Full Scale Length	–

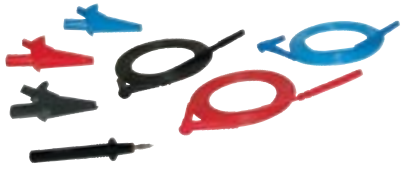
**DC test voltage generated 5.5 to 200MΩ in full across the entire measurement range.*

▶FEATURES

- True Megohmmeter®
- Test voltages of 250V, 500V and 1000V (model dependent)
- Insulation measurements to 200MΩ and 5000MΩ (model dependent)
- LED indicates constant voltage output and proper cranked speed controlled by voltage regulator
- Automatic discharge when measurement is finished
- Auto-Ranging – dual scale operation for better sensitivity and easier readings
- Compact self-contained package; folded crank
- Voltage displayed prior to, during and at the end of test
- Large direct reading scale
- EN 61010-1, 600V CAT II, 300V CAT III

▶PRODUCT INCLUDES

Soft carrying case, test leads, blue lead (for use with Model 6503), alligator clips, test probe, and user manual.



CATALOG NO.	DESCRIPTION
2126.51	Megohmmeter Model 6501 (Hand-cranked, 500V, 500kΩ, Resistance, Continuity)
2126.52	Megohmmeter Model 6503 (Hand-cranked, 250V, 500V, 1000V)

MEGOHMMETERS

Digital/Analog & Multi-Function Voice, Data, Video Cable Testing

Models 1030, 1040 & 1045

For motors, cables, switchgear and general applications

Learn how to measure insulation on telephone cables ▼

▶SPECIFICATIONS

MODELS		1030	1040	1045
INSULATION TESTS				
Test Voltage	250V	50kΩ to 2000MΩ (2GΩ)	–	50kΩ to 2000MΩ (2GΩ)
	500V	100kΩ to 2000MΩ (2GΩ)	100kΩ to 2000MΩ (2GΩ)	100kΩ to 2000MΩ (2GΩ)
	1000V	–	200kΩ to 2000MΩ (2GΩ)	200kΩ to 2000MΩ (2GΩ)
Short Circuit Current		≤3mA		
Accuracy	<40MΩ	3% of Reading ± 5cts		
	≥40MΩ	3% of Reading ± 2cts		
Voltage Test/Safety Check		0 to 600VAC/DC		
Voltage Warning Indicator		>25V		
Test Inhibition		Yes >25V		
RESISTANCE TESTS (MODELS 1040 AND 1045)				
Measurement Range		–	0.0 to 400kΩ	
Test Voltage		–	7 to 9V	
Test Current		–	600µA	
Accuracy	>4kΩ	–	3% of Reading ± 1ct	
CONTINUITY TESTS				
Measurement Range		0.00 to 19.99Ω		
Test Current		≥200mA		
Accuracy		3% of Reading ± 1ct		
ELECTRICAL				
Power Source		Six 1.5V AA Alkaline batteries (included)		

▶PRODUCT INCLUDES

1040 & 1045 Field Kit

Megohmmeter, soft carrying case, field case, two color-coded leads, two alligator clips, black test probe, remote test probe, batteries and user manual.

1035 Field Kit

Megohmmeter, soft carrying case, field case, color-coded leads, alligator clips, black test probe, two grip probes, remote test probe, batteries, and user manual.

▶Soft carrying case

Included with all Models

▶Hands-free carrying case

Catalog #2118.99 ***(optional)***

Models 1035 & 1039

For voice, data and video cable applications

▶FEATURES

- True Megohmmeter®
- Test voltage combinations of 250V, 500V and 1000V
- Insulation measurements to 2000MΩ (2GΩ)
- Automatic test inhibition (if live sample >25V)
- Automatic discharge for operator safety
- Multi-line, 4000-count, backlit, digital display with analog bargraph
- Resistance measurements to 400kΩ
- Continuity with 200mA test current
- Timer function for easy DAR and PI (Model 1045)
- Slip-proof, over-molded, protective rubber housing for rugged field use
- Includes test leads and soft carrying case
- Test voltage combinations of 50V, 100V, 250V and 500V (Model 1035)
- Insulation measurement to 20,000MΩ (20GΩ) (Model 1035)
- Insulation measurement to 400MΩ (Model 1039)
- Capacitance measurement to 4000nF (Model 1039)
- Cable length measurement to 80.0km (>264,000 ft) (Model 1039)
- Ideal for telecom testing and high sensitivity measurements
- Backlit display (Models 1035, 1039, 1040 & 1045)

▶SPECIFICATIONS

MODELS		1035	1039
INSULATION TESTS			
Test Voltage	50V	10kΩ to 2000MΩ (2GΩ)	10kΩ to 400MΩ
	100V	20kΩ to 2000MΩ (2GΩ)	20kΩ to 400MΩ
	250V	50kΩ to 20,000MΩ (20GΩ)	–
	500V	100kΩ to 20,000MΩ (20GΩ)	–
Open Circuit Voltage		<75V @ 50V, <150V @ 100V, <375V @ 250V, <750V @ 500V	
Short Circuit Current		≤3mA	
Accuracy		±3% of Reading ± 5cts	
Voltage Test/Safety Check		0 to 600VAC/DC	
Voltage Warning Indicator		>25V	
Test Inhibition		Yes >25V	
RESISTANCE TESTS			
Measurement Range		0.0 to 400kΩ	0.0 to 40.0kΩ
Test Voltage		7 to 9V	7 to 9V
Test Current		600µA < 400Ω; 6µA > 40Ω	600µA < 400Ω
Accuracy	>400kΩ	±3% of Reading ± 1ct	±3% of Reading ± 1ct
CURRENT TESTS			
AC/DC Current Range		–	0.00 to 400mA (240A) (with probe option)
CAPACITANCE/CABLE LENGTH			
Capacitance Range		–	0.00 to 4000nF
Cable Length Range		–	0.000 to 80.0km
VOLTAGE TESTS			
Measurement Range		–	0 to 400VAC
Accuracy		–	±3% of Reading ± 1ct
ELECTRICAL			
Power Source		Six 1.5V AA Alkaline batteries (included)	

CATALOG NO.	DESCRIPTION
2116.89	Megohmmeter Model 1030 (Digital w/Analog Bargraph, 250V, 500V)
2116.92	Megohmmeter Model 1040 (Digital w/Analog Bargraph, Alarm, Backlight, 500V, 1000V, 400kΩ, Continuity)
2116.93	Megohmmeter Model 1045 (Digital w/Analog Bargraph, Alarm, Timer, Backlight, 250V, 500V, 1000V, 400kΩ, Continuity)
2117.30	Megohmmeter Model 1040 Field Kit (Model 1040, Remote Test Probe & Field Case)
2117.31	Megohmmeter Model 1045 Field Kit (Model 1045, Remote Test Probe & Field Case)
2116.90	Megohmmeter Model 1035 (Digital w/Analog Bargraph, Alarm, Backlight, 50V, 100V, 250V, 500V, 400kΩ)
2116.91	Megohmmeter Model 1039 (Digital w/Analog Bargraph, Alarm, Timer, ΔRel, Backlight, 50V, 100V, mA, nF, km)
2115.42	Megohmmeter Model 1035 Field Kit (Model 1035, Remote Test Probe & Field Case)
Accessories (Optional)	
2118.97	Remote Test Probe
2118.98	Field Case (Waterproof)
2118.99	Hands-Free Carrying Case

Special product features ▼

MEGOHMMETER/DMM COMBO

CONDUCT SHORT & TIMED TESTS

BACKLIT DISPLAY

MEGOHMMETERS
1000V Digital

Model 6527

Specially designed for testing installations and equipment

SAFETY 600V CAT IV RATING

IP 51 Rated

CE

▶SPECIFICATIONS

MODEL		6527
INSUTATION TESTS		
Test Voltage	250V 500V 1000V	1kΩ to 4000MΩ (4GΩ) 1kΩ to 4000MΩ (4GΩ) 1kΩ to 4000MΩ (4GΩ)
Accuracy	4MΩ/40MΩ 400MΩ 4000MΩ (4GΩ)	2% of Reading ± 10cts 3% of Reading ± 5cts 4% of Reading ± 5cts
VOLTMETER		
V AC/DC		600V/1000V
Accuracy	DC AC	0.8% of Reading ± 3cts 1.2% of Reading ± 10cts
RESISTANCE TESTS - OHMMETER		
Range		0.0 to 400.0kΩ
Accuracy		1.2% of Reading ± 3cts
CONTINUITY TESTS		
Range		0.00 to 400Ω
Accuracy		1.2% of Reading ± 3cts
Test Current		>200mA (0.2Ω/2Ω)
Test Lead Compensation		Yes – dedicated push-button
Beeper		Yes – <35Ω ± 3Ω
ELECTRICAL		
Power Supply		Six 1.5V AA batteries – Alkaline recommended (included)

▶FEATURES

- True Megohmmeter®
- Insulation test voltage selections of 250V, 500V and 1000V
- Measure insulation to 4000MΩ (4GΩ)
- TEST LOCK feature for time sensitive measurements up to 15 minutes
- Auto discharge after insulation test
- AC/DC voltmeter to 600VAC/1000VDC
- Ohmmeter to 400kΩ
- Continuity meter up to 200mA test current
- Test lead resistance compensation for accurate low resistance measurements
- Auto HOLD function to “freeze” readings
- Large and bright dual display with blue backlight
- Auto Power OFF feature
- Ergonomic over-molded case with back-stand
- Complies with International Insulation Testing Standards including EN61557

▶PRODUCT INCLUDES

Soft carrying case, set of two 5 ft color-coded test leads, alligator clips, one black test probe and user manual.

CATALOG NO.	DESCRIPTION
2126.53	Megohmmeter Model 6527 (Digital, 250V, 500V, 1000V, Continuity, 400kΩ, V)

Special product features

Models 1050 & 1060

Test insulation on cables, transformers, motors and wiring installations

▶FEATURES

- True Megohmmeter®
- Test voltage selections of 50V, 100V, 250V, 500V and 1000V
- Insulation measurements to 4000GΩ (4TΩ)
- Direct measurement of DAR and PI values
- Direct measurement of sample capacitance
- Display of test voltage and run time
- Programmable test run times and PI times
- Smooth and Alarm functions
- Automatic test inhibition (if live sample >25V)
- Automatic discharge and display of discharge voltage
- Large dual display with time, voltage and measurement
- Bright blue electroluminescent backlight
- Battery powered (Model 1050)
- Auto Power OFF when not in use
- Remote operation with optional test probe
- Rugged, dual wall, weatherproof field case with detachable lead/accessory pouch
- EN 61010-1, 600V CAT III, EN 61557

Model 1060 includes the following additional features:

- AC rechargeable NiMH battery pack
- RS-232 interface with USB 2.0 cable for DataView® easy report printing
- 128kB memory to store measurements in specific files
- Remote operation of megohmmeter through PC
- Includes DataView® software for data storage, real-time display, analysis and report generation

▶SPECIFICATIONS

MODELS		1050	1060
INSULATION TESTS			
Test Voltage	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1000GΩ (1TΩ) 20kΩ to 2000GΩ (2TΩ) 40kΩ to 4000GΩ (4TΩ)	
Accuracy	2kΩ to 40GΩ 40GΩ to 4TΩ	5% of Reading ± 3cts 15% of Reading ± 10cts	
Voltage Test/Safety Check		0 to 1000VAC/DC	
Voltage Warning Indicator		>25V	
Test Inhibition		Yes >25V	
Smooth Function		Yes	
RESISTANCE TESTS			
Measurement Range		0.01Ω to 400kΩ	
Test Voltage		12.4VDC max	
Test Current		<6mADC	
Accuracy	>4kΩ	±3% of Reading ± 3cts	
CONTINUITY TESTS			
Measurement Range		0.01 to 39.99Ω	
Test Current		≥200mA from 0.01 to 20.00Ω	
Accuracy		±3% of Reading ± 4cts	
COMMUNICATION			
Memory of Reading over Time R(t)		Yes (20 Readings)	Yes (128kB memory)
Memory of Test Results in Files		No	128kB memory with RS-232 to USB adapter (included)
PC Software/Report Generation		No	DataView® (included)
ELECTRICAL			
Power Source		Eight 1.5V C Cells (included)	9.6V NiMH Battery Pack (included) 85 to 256V (50/60Hz)

▶PRODUCT INCLUDES

One red, one blue test lead, one black shielded lead, one each black, red and blue alligator clips, one black test probe and user manual. Model 1060 also includes RS-232 to USB adapter, DB9 F/F 6 ft null modem cable, rechargeable battery, US 120V power cord, and USB stick supplied with DataView® software and user manual.

CATALOG NO.	DESCRIPTION
2130.01	Megohmmeter Model 1050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity)
2130.03	Megohmmeter Model 1060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity, USB Sitck w/ DataView® software, 128kB Memory)
2118.97	Remote Test Probe

Special product features ▼

MEGOHMMETERS
5000V Digital/Analog

Model 6505

Contributes to the safety of electrical installations and equipment

▶SPECIFICATIONS

MODEL	6505
INSULATION TESTS	
Test Voltage/Range 500V 1000V 2500V 5000V	 30kΩ to 2000GΩ (2TΩ) 100kΩ to 4000GΩ (4TΩ) 100kΩ to 10,000GΩ (10TΩ) 300kΩ to 10,000GΩ (10TΩ)
User Programmable Test	40 to 1000V: 10V increments 1000 to 5100V: 100V increments
Short Circuit Current	<1.6mA ± 5%
Accuracy 10kΩ to 40GΩ 40GΩ to 10TΩ	±5% of Reading ± 3cts ±15% of Reading ± 10cts
DAR (1 min/30 sec)	0.02 to 50.00
PI (10 min/1 min & user programmable)	0.02 to 50.00
Capacitance Measurement	0.005 to 49.99µF; Max resolution 1nF
Leakage Current Measurement	0.00nA to 3mA; Max resolution 1pA
Programmable Run Time R(t)	1 to 60 minutes
Discharge After Test	Yes, automatic
Discharge Voltage Display	Yes
Voltage Test/Safety Check	2500VAC/4000VDC (16 to 420Hz); 1V Resolution
Voltage Warning Indicator	Yes >25V
Test Inhibition*	Yes >25V
Guard Terminal	Yes
ELECTRICAL	
Power Source	One 9.6V NiMH battery pack (included); Line power: 85 to 256VAC (50/60Hz)

**Inhibit voltage is selectable at 3, 10 or 20% of test voltage*

▶PRODUCT INCLUDES

Extra large classic tool bag, three color-coded leads, one blue jumper lead for use with guard terminal, three alligator clips (600V CAT IV), US 115V power cord, rechargeable battery pack and user manual.

▶FEATURES

- True Megohmmeter®
- Simple operation
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 30kΩ to 10TΩ (10,000GΩ)
- Adjustable and programmable test voltage (40 to 5100V)
- Automatic calculation of DAR and PI values
- Direct measurement and display of Capacitance and Leakage Current
- Display resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Automatic test inhibition (if live sample >25V)
- Automatic discharge and display of discharge voltage
- Large backlight LCD dual-display with time, voltage and measurements shown
- Rugged, dual wall, weatherproof field case
- Designed and built to IEC safety standards
- EN 61010-1, 1000V CAT III

CATALOG NO.	DESCRIPTION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, 500V, 1000V, 2500V, 5000V, Auto DAR/PI)
Accessories (Optional)	
2119.76	Lead – Set of 3, Color-coded 10ft 5kV Safety w/3 Color-coded Alligator Clips (1000V CAT IV) 15A for use with Megohmmeter Models 5050/5060/5070/6505
2119.77	Lead – Replacement, Set of 3, Color-coded 6ft 5kV safety for Megohmmeter Model 6505
2119.85	Lead – Set of 3, Color-coded 10ft 5kV Safety with Integral Hippo Clips, and jumper lead for use with Megohmmeter Model 6505 (replacement for 5050/5060/5070)
2119.86	Lead – Set of 3, Color-coded 25ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 [Jumper lead not included]
2119.87	Lead – Set of 3, Color-coded 45ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 [Jumper lead not included]

Special product features

HIGH RESISTANCE MEASUREMENTS

SELECTABLE TEST VOLTAGES

AUTOMATIC RATIO CALCULATIONS

Models 5050 & 5060

Designed with the highest level of safety features built in

PLAY VIDEO

DataView®

See page 13 for details

▲ ***Print measurement reports directly from your computer using DataView® software (Models 5060 & 5070)***

▶SPECIFICATIONS

MODELS		5050	5060
INSULATION TESTS			
Test Voltage	500V 1000V 2500V 5000V	30kΩ to 2000GΩ (2TΩ) 100kΩ to 4000GΩ (4TΩ) 100kΩ to 10,000GΩ (10TΩ) 300kΩ to 10,000GΩ (10TΩ)	
User Selectable Test Voltage		Programmable: 40 to 1000V: 10V increments; 1000 to 5100V: 100V increments	
Automatic Step Voltage		–	
Accuracy	1kΩ to 40GΩ 40GΩ to 10TΩ	±5% of Reading ± 3cts ±15% of Reading ± 10cts	
Voltage Test/Safety Check		2500VAC/4000VDC	
Voltage Warning Indicator		Yes >25V	
Test Inhibition*		Yes — adjustable from 25 to 1000V depending on test voltage range in use	
Smooth Function (user selectable)		Digital filtering stabilizes display readings	
COMMUNICATION			
Storage of Readings over Time R(t)		4kB memory	128kB memory
Storage of Test Results		20 Readings	Stores over 1500 test results
Communication Port		–	Serial and RS-232 to USB adapter (included)
PC Software/Report Generation		No	DataView® (included)
ELECTRICAL			
Power Source		One 9.6V NiMH battery pack (included) Line power: 85 to 256V (50/60Hz)	

**Inhibit voltage is selectable at 3, 10 or 20% of test voltage*

▶PRODUCT INCLUDES

▶PC RS-232 Cable
Catalog #2119.45
DB9 F/F 6 ft null modem cable
Catalog #5000.60
RS-232 to USB adapter

▶USB Stick
Supplied with DataView® software and user manual (Models 5060 & 5070)

5050, 5060 & 5070

Extra large classic tool bag, one red, one blue and one black lead with integral 5kV rated hippo clips, one jumper lead for use with guard terminal, 120V power cord, rechargeable battery and user manual.

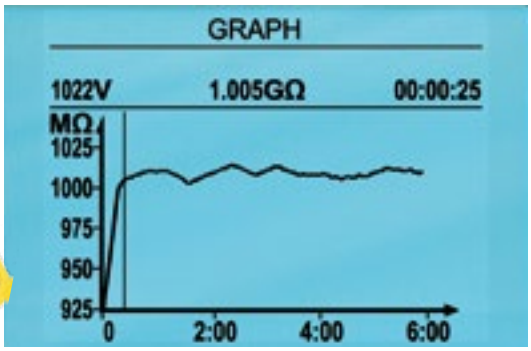
CATALOG NO.	DESCRIPTION
2130.20	Megohmmeter Model 5050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Auto DAR/PI/DD)
2130.21	Megohmmeter Model 5060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V Auto DAR/PI/DD, USB Stick w/DataView® software)

Special product features ▼

MEGOHMMETERS
5000V Graphical

Model 5070

Offers real-time graphic plot of measurements and digital presentation of test results



Insulation resistance measurement graphically displayed at the completion of the test at the push of a button.

▶SPECIFICATIONS

MODEL		5070
INSULATION TESTS		
Test Voltage	500V 1000V 2500V 5000V	30kΩ to 2000GΩ (2TΩ) 100kΩ to 4000GΩ (4TΩ) 100kΩ to 10,000GΩ (10TΩ) 300kΩ to 10,000GΩ (10TΩ)
User Selectable Test Voltage		Programmable: 40 to 1000V: 10V increments; 1000 to 5100V: 100V increments
Automatic Step Voltage		Programmable step voltage and duration up to five steps. Three profiles can be stored.
Accuracy	1kΩ to 40GΩ 40GΩ to 10TΩ	±5% of Reading ± 3cts ±15% of Reading ± 10cts
Voltage Test/Safety Check		2500VAC/4000VDC
Voltage Warning Indicator		Yes >25V
Test Inhibition*		Yes — adjustable from 25 to 1000V depending on test voltage range in use
Smooth Function (user selectable)		Digital filtering stabilizes display readings
COMMUNICATION		
Storage of Readings over Time R(t)		128kB memory
Storage of Test Results		Stores over 1500 test results
Communication Port		Serial and RS-232 to USB adapter (included)
PC Software/ Report Generation		DataView® (included)
ELECTRICAL		
Power Source		One 9.6V NiMH battery pack (included) Line power: 85 to 256V (50/60Hz)

**Inhibit voltage is selectable at 3, 10 or 20% of test voltage*

▶FEATURES

- True Megohmmeter®
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 30kΩ to 10,000GΩ (10TΩ)
- Selectable and programmable test voltage (40 to 5100V)
- Automatic calculation of DAR, PI and DD ratios
- Direct measurement and display of Capacitance and Leakage Current
- Display resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Smooth and Alarm functions
- Automatic test inhibition (if live sample >25V)
- Automatic discharge and display of discharge voltage
- Graphic and digital display of test voltage, resistance and more
- Bright blue electroluminescent backlight
- Programmable temperature compensation
- Programmable test voltage lock-out
- Programmable alarm setting
- Auto Power OFF when not in use
- AC or DC powered with rechargeable NiMH battery pack - run while charging
- Rugged, weatherproof field case
- Designed and built to IEC safety standards
- Includes DataView® software for data storage, real-time display, analysis and report generation (Model 5070)
- EN 61010-1, 1000V CAT III

CATALOG NO.	DESCRIPTION
2130.30	Megohmmeter Model 5070 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Ramp, Auto DAR/PI/DD, USB Stick w/DataView® software)
Accessories (See page 9 for optional accessories)	
2119.45	Cable, PC RS-232, DB9 F/F 6 ft Null Modem Cable (for use with Models 1060, 5060 & 5070)

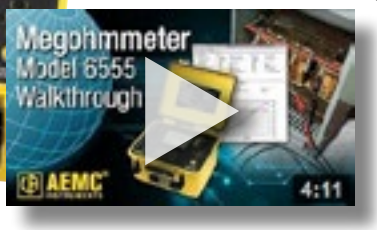
Special product features

FIXED, RAMP & STEP TESTING

STORES 80,000 TESTS

DIGITAL & GRAPHICAL DISPLAY

PLAY VIDEO



Models 6550 & 6555

Expert tools for testing insulation safely and accurately; ideal for use on rotating machinery and cables operating at higher voltages

SAFETY 1000V CAT IV RATING

IP 53 Rated

CE

AUTOMATIC REPORT GENERATION

▶FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40V to 10kV/15kV
- Wide measurement range from 10kΩ to 30TΩ
- 5mA charging current
- Step voltage testing
- Ramp voltage testing
- Automatic calculation of DAR / PI / DD /ΔR (ppm/V) ratios
- Large, backlit graphical LCD screen with digital display, bargraph and R(t)+V(t), I(t) and I(V) graphs
- Multiple test modes: voltage ramp and step with “Burn-In”, “Early-Break” and “I-Limit” modes
- Three filter settings to optimize measurement stability
- Calculation of R at a reference temperature
- Storage of 80,000 measurements
- Includes DataView® software for data storage, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView® software

▶SPECIFICATIONS

MODELS		6550	6555
INSULATION TESTS			
Test Voltage	500V 1000V 2500V 5000V 10,000V	10kΩ to 2000GΩ (2TΩ) 10kΩ to 4000GΩ (4TΩ) 10kΩ to 10,000GΩ (10TΩ) 10kΩ to 15,000GΩ (15TΩ) 10kΩ to 25,000GΩ (25TΩ)	
	15,000V	–	10kΩ to 30,000GΩ (30TΩ)
Fixed Test Voltages		500/1000/2500/5000/ 10,000V	500/1000/2500/5000/ 10,000/15,000V
Variable Voltages		Variable: 40 to 10kV Three user programmable voltage schemes	Variable: 40 to 15kV Three user programmable voltage schemes
Ramp Mode		Programmable ramps: start voltage/end voltage/duration	
Ramp Configuration Range		40 to 1100V/500 to 10,000V	40 to 1100V/500 to 15,000V
Step Mode		Up to 10 steps (voltage and duration configurable for each step)	
Voltage Measurement After Test		0 to 2500VAC; 0 to 4000VDC	
Capacitance Measurement		0.05 to 9.999µF/10.00 to 49.99µF	
Leakage Current Measurement		0 to 8mA	
Discharge After Test		Yes/Automatic	
Additional Test Stop Modes			
	I-Limit	Programmable: 0.2 to 5mA	
	Early-Break	di/dt	
	Timer	Up to 99 minutes 59 seconds	
Burn Mode		Constant testing	
Ratio Calculation		PI, DAR, DD	
Calculation of R at ref. T°		Yes	
Measurement Display Filter		3 filters with 3 possible time-constants	
Graphs on Display		R(t)+V(t); I(t); I(V)	
Storage		256 registers, stores 80,000 points: R, V, I and date	
Communication		USB optically-isolated port	
PC Software		DataView®	
Power Supply		NiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60Hz	
Battery Charging		Battery charging allowed while performing insulation measurements	
Electrical Safety		1000V CAT IV; IEC61010-1 and IEC 61557	
EMC, Mechanical Protection, Altitude		EN 61326-1, IP54, 3000m	
Dimensions / Weight		13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg (13.7lb)	

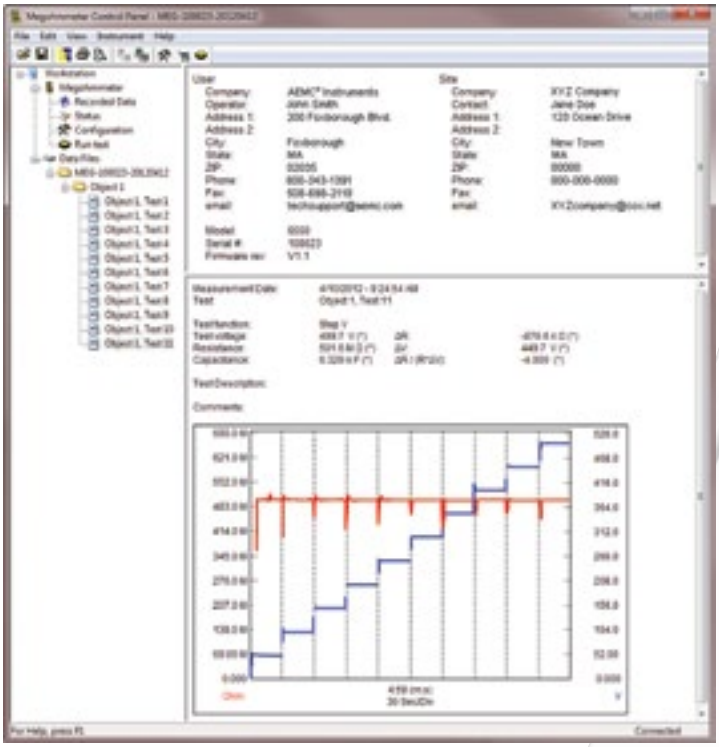
See page 12 for ordering information

▶PRODUCT INCLUDES

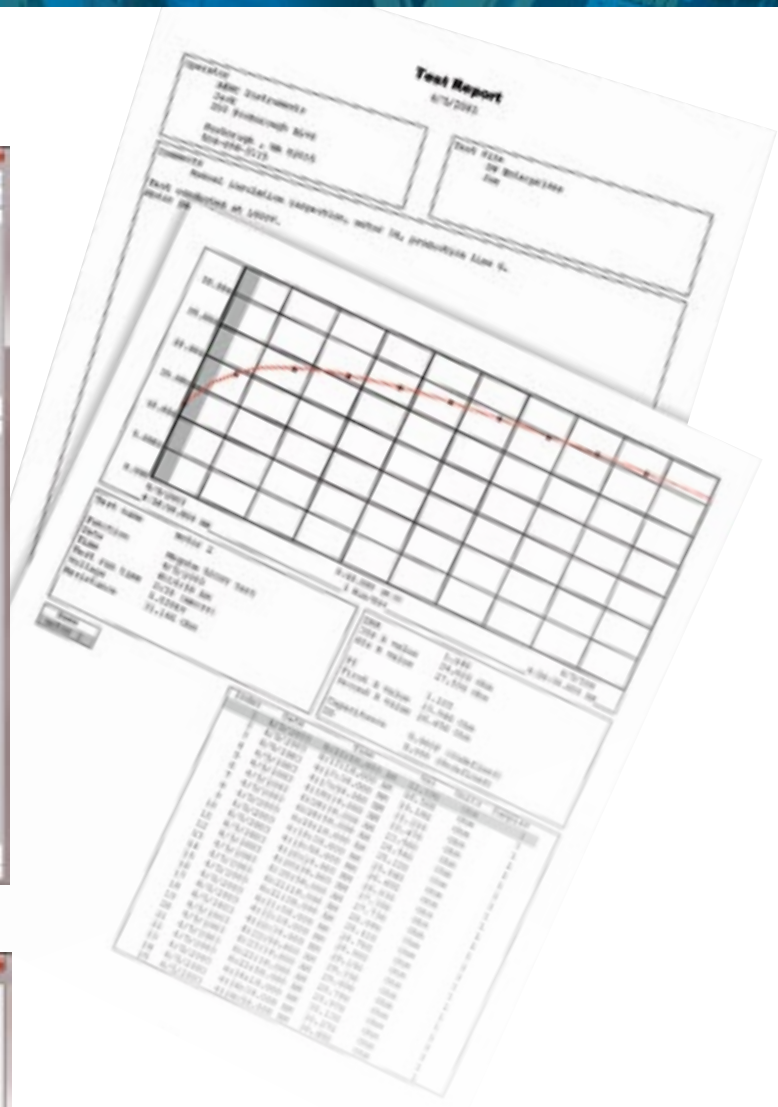
Small classic tool bag, set of color-coded (red/blue/black) 9 ft (15kV) integral leads and alligator clips (1000V CAT IV), one 15kV jumper lead (blue), set of two color-coded test probes (red/black-1000V CAT IV), optical USB cable, 115V US power cord, 9.6V rechargeable NiMH batteries.

▶USB Stick
Quick start user guide, and USB stick supplied with DataView® software and user manual.

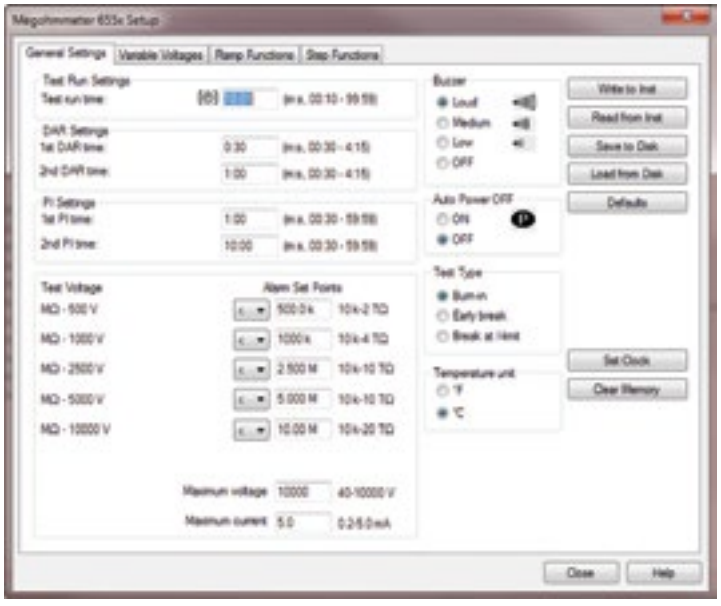
DataView® Displays



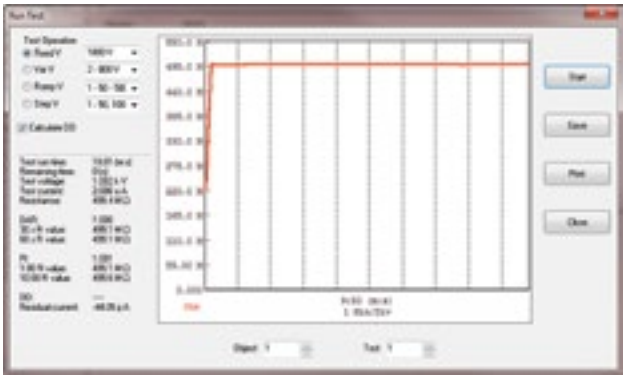
All stored test results presented on screen.



Typical and customized reports generated from DataView® software.



Clear and straight forward set up of parameters.



Real-time display of measurement results.

CATALOG NO.	DESCRIPTION
2130.31	Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB Stick w/DataView® software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, 15kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB Stick w/DataView® software)

DataView®

Data Analysis and Reporting Software for Megohmmeters

Configure all functions of the Megohmmeter Models 1060, 5060, 5070, 6550 & 6555

AUTOMATIC REPORT GENERATION

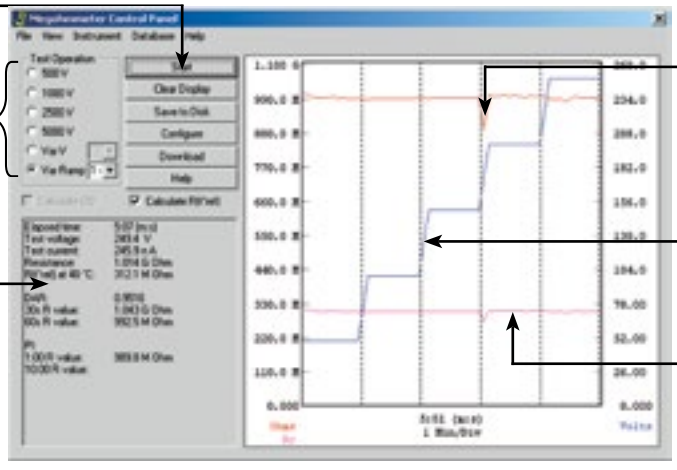
- Print reports of all test results
- Select test voltage and run tests from your computer with a simple click and execute process
- Capture and display data in real-time
- Retrieve data from the instrument's memory:
  - Over 1500 insulation resistance measurements
  - Over 4000 resistance measurements
- Display DAR and PI ratios
- Plot graphs of manual and timed tests
- Include your analysis comments section with the report
- Store a library of setups for different applications
- Certification of results through report generation
- Free updates are available on our website **www.aemc.com**

Typical DataView® Functional Displays

Model 5070 includes Ramp Function which allows programming of three different ramp test profiles, each containing up to five voltage steps between 40 and 5100V and time per step of up to 10 hours.

Four tabbed dialog boxes allow for clear and easy setup of all functions of the Model 5070, including setup for variable voltage and alarm set points, as well as step voltage tests and temperature compensation.

Clear and easy setup from one dialog box for Model 5060.



Run test and display text and graphical results from one dialog box. Model 5070 also displays step voltage.