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MEGOHMMETERS

500V & 1000V HAND-CRANKED

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 500V 1000V	– 0.5 to 200MΩ –	1 to 500MΩ 1 to 500MΩ 10 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 500V 1000V	– 0.5s/μF –	0.2s/μF 0.5s/μF 0.5s/μF
RESISTANCE TESTS		
Measurement Range	0 to 45kΩ; 45 to 500kΩ	–
Test Current	1mA _{DC}	–
Accuracy	±2.5% of Full Scale Length	–
CONTINUITY TESTS		
Measurement Range	0 to 9Ω; 10 to 100Ω	–
Test Voltage	5mA _{DC} (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

MODEL 6501

Soft carrying case, two color-coded leads, two color-coded alligator clips (red/black) and user manual.

MODEL 6503

Soft carrying case, three color-coded leads, three color-coded alligator clips (red/black/blue), black test probe and user manual.



Shown: Model 6503

CATALOG NO.

DESCRIPTION

2126.51 Megohmmeter Model 6501 (Hand-cranked, 500V, Resistance, Continuity)

2126.52 Megohmmeter Model 6503 (Hand-cranked, 250V, 500V, 1000V)

MODEL 6527

Specially designed for testing installations and equipment including DMM functions



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 600V_{AC}/1000V_{DC}
- 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

SPECIFICATIONS

MODEL	6527
INSULATION 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)

PRODUCT INCLUDES



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



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

MODEL 1026

Provides a variety of functions:
megohmmeter, DC voltmeter, AC voltmeter,
ohmmeter and continuity testing

SPECIFICATIONS

MODEL	1026
INSULATION TESTS	
Test Voltage	250V 1kΩ to 4000MΩ 500V 1kΩ to 4000MΩ 1000V 1kΩ to 4000MΩ
Accuracy	<2000MΩ ±3% of Reading + 5cts ≥2000MΩ ±5% of Reading + 5cts
RESISTANCE TESTS	
Measurement Range	Auto ranging to 4000Ω
Resolution	0.1 to 1Ω
Accuracy	±1% of Reading + 5cts
CONTINUITY TESTS	
Measurement Range	Displays and beeps below 40Ω
Active	≤40Ω
Protection	600Vrms
VOLTAGE TESTS	
AC VOLTAGE Measurement Range	0 to 600V
Accuracy	±1.5% of Reading + 5cts
DC VOLTAGE Measurement Rang	0 to 600V
Accuracy	±1% of Reading + 3cts
ELECTRICAL	
Power Source	Eight 1.5V AA Alkaline batteries (included)

PRODUCT INCLUDES

Soft carrying case, set of 2 color-coded leads,
alligator clips and test probes (Red/Black)



FEATURES

- Test voltage selections of 250V, 500V and 1000V
- Insulation measurements to 4000MΩ
- Resistance measurements to 4000Ω
- Continuity test
- Continuity beeper
- 600Vac/dc test voltage range
- Large, easy-to-read digital display
- Data hold switch
- Test button may be "locked-on" for three minutes for hands-free operation
- Automatic discharge when test button is released
- Low battery indicator
- Includes test leads and soft carrying case
- EN 61010-1, 1000V CAT II, 600V CAT III

CATALOG NO.

DESCRIPTION

2117.72 Megohmmeter Model 1026 (Digital, 250V, 500V, 1000V, 4000Ω, V)

MEGOHMMETERS

DIGITAL/ANALOG & MULTI-FUNCTION HANDHELD

MODELS 6522, 6524, 6526, 6532, 6534 & 6536



SPECIFICATIONS

MODELS	6522	6524	6526	6532	6534	6536
INSULATION TESTS						
Test Voltages	250V, 500V, 1000V	50V, 100V, 250V, 500V, 1000V	50V, 100V, 250V, 500V, 1000V	50V, 100V	10V, 25V, 100V, 250V, 500V	Variable 10 to 100V (1V steps)
Insulation Resistance	40GΩ (40,000MΩ)	200GΩ (200,000MΩ)	200GΩ (200,000MΩ)	20GΩ (20,000MΩ)	50GΩ (50,000MΩ)	20GΩ (20,000MΩ)
PI/DAR Ratios	-	Yes	Yes	Yes	-	-
Test Lock	Yes					
Timer	0 to 40min	0 to 40min	0 to 40min	0 to 40min	0 to 40min	0 to 40min
Auto Discharge	Yes					
Automatic Test Inhibit	>25V					
DMM FUNCTIONS						
Voltage	700V _{AC/DC}					
Resistance	-	1000kΩ	1000kΩ	1000kΩ	1000kΩ	1000kΩ
Continuity	10Ω	10Ω, 100Ω	10Ω, 100Ω	10Ω, 100Ω	10Ω, 100Ω	10Ω, 100Ω
Test Current	200mA					
Capacitance Measurement	-	-	0.1n to 10μF	0.1n to 10μF	-	-
Frequency	-	15.3 to 800Hz	15.3 to 800Hz	15.3 to 800Hz	-	-
GENERAL FUNCTIONS						
Alarm	-	Yes	Yes	Yes	Yes	Yes
△ Rel						
Auto Power OFF						
Data Hold						
Test Lead Compensation						
Remote Probe	Yes (optional)					
Memory	-	300 measurements	1300 measurements	1300 measurements	1300 measurements	-
Bluetooth	-	-	2.1 Class II	2.1 Class II	2.1 Class II	-
DataView® Software	-	-	Included	Included	Included	-
Display Type	Digital w/Analog Bargraph					
Display Counts	4000					
Backlight	Yes					
Safety	600V CAT IV					
Power Supply	6 x AA Alkaline					
Protection	IP54/IK 04					
Magnetic Mount	Yes					
Additional Features	-	-	Green/Red Pass/Fail Indicator	Cable length measurement (0 to 100km)	-	-
Applications	Industrial Maintenance	Industrial Maintenance	Industrial Maintenance	Telecom	Electronics, ESD	Avionics, Space, Defense

CATALOG NO. DESCRIPTION

2155.51	Megohmmeter Model 6522 (Digital w/Analog Bargraph, 250V, 500V, 1000V, Continuity, V)
2155.52	Megohmmeter Model 6524 (Digital w/Analog Bargraph, Alarm, 50V, 100V, 250V, 500V, 1000V, Ohm, Continuity, V, kΩ, Memory)
2155.53	Megohmmeter Model 6526 (Digital w/Analog Bargraph, Alarm, 50V, 100V, 250V, 500V, 1000V, Ohm, Continuity, V, kΩ, Capacitance, Memory, Bluetooth w/DataView® software)
2155.54	Megohmmeter Model 6532 (Digital w/Analog Bargraph, Alarm, 50V, 100V, Ohm, Continuity, V, kΩ, Cap, Memory, Bluetooth w/DataView® software)
2155.55	Megohmmeter Model 6534 (Digital w/Analog Bargraph, Alarm, 10V, 25V, 100V, 250V, 500V, Ohm, Continuity, V, kΩ, Memory, Bluetooth w/DataView® software)
2155.56	Megohmmeter Model 6536 (Digital w/Analog Bargraph, Alarm, Variable 10 to 100V, Ohm, Continuity, V, kΩ)
2155.57	Megohmmeter Model 6536 ESD Floor Kit (Meter, set of 2, 5lb weights and carrying case)

MEGOHMMETERS

DIGITAL/ANALOG & MULTI-FUNCTION HANDHELD

MODELS 6522, 6524, 6526, 6532, 6534 & 6536

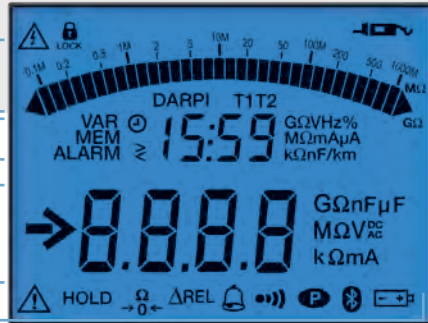
Front Panel & Functional Displays

Analog with bargraph display of insulation resistance

Secondary display

Main display

Function indicators



FEATURES*

- True Megohmmeter*
- Test voltage from 10 to 1000V
- Insulation resistance up to 200GΩ
- Manual, Lock, Timer modes & PI/DAR Ratio calculations
- Alarms with Green/Red Pass/Fail indicator light
- 200mA/20mA continuity with active protection without fuses
- Measurement of V (TRMS & DC), F, Ω, kΩ, Hz, C and cable length
- ΔRel mode for comparison measurements
- Configurable alarms
- Data retrieval
- Automatic discharge after test
- Automatic test inhibit if device under test is energized >25V

* Features are model dependent
Bluetooth on selected models

Access to the instrument information and setup for Test Lock, Timer, PI/DAR and Times

Navigation buttons:

- Display instrument information
- Turn buzzer on or off
- Turn power saver on or off
- Program test time
- Select displayed parameters
- Program alarm set points

Memory recall/Bluetooth activation

Alarm activation/deactivation with Pass/Fail indication (model dependent)



Test lead resistance compensation

ΔRel set and compare measurements to a reference value

Test button

Test function selection switch

DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

CONFIGURE MEGOHMMETER

MODELS 6526, 6532 & 6534

- Print reports of all test results
- Run tests from your computer with a simple click and execute process
- Capture and display data in real-time



PRODUCT INCLUDES

MODEL 6522 Catalog #2155.51 &

MODEL 6524 Catalog #2155.52

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, 6 AA batteries and user manual.

MODEL 6526 Catalog #2155.53

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, 6 AA batteries, quick start guide, USB stick with DataView® software and user manual.

MODEL 6532 Catalog #2155.54 &

MODEL 6534 Catalog #2155.55

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, two color-coded (red/black) grip probes, 6 AA batteries, quick start guide, USB stick with DataView® software and user manual.



Shown: Model 6532

MODEL 6536 Catalog #2155.56

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, two color-coded (red/black) grip probes, 6 AA batteries, and user manual.

MODEL 6536 ESD Floor Kit Catalog #2155.57

Meter, field case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, two color-coded (red/black) grip probes, two 5 lb. weights with conductive rubber bottom pad, two 4mm non-insulated adapters, 6 AA batteries, and user manual.

MODELS 1050 & 1060

Test insulation on cables, transformers, motors and wiring installations

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		<6mA DC
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)



Model 1060 only

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, water-resistant field case with detachable lead/accessory pouch
- EN 61010-1, 600V CAT III, EN 61557

PRODUCT INCLUDES

MODEL 1050 Catalog #2130.01

Meter, detachable accessory pouch, two 5 ft. color-coded (red/blue) leads, one black shield lead, three color-coded (red/blue/black) alligator clips, one black test probe, spare fuses, eight C cell batteries and USB stick with user manual.



MODEL 1060 Catalog #2130.03

Meter, detachable accessory pouch, two 5 ft. color-coded (red/blue) leads, one black shield lead, three color-coded (red/blue/black) alligator clips, one black test probe, RS-232 DB9 F/F 6 ft. null model cable, RS-232 to USB adapter, US 115V power cord, rechargeable NiMH battery, spare fuses, and USB stick 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, DataView software, 128kB Memory)
2155.75	Megohmmeter Test Probe (600V CAT IV)

MODEL 6505

Contributes to the safety of electrical installations and equipment



SPECIFICATIONS

MODEL	6505
INSULATION TESTS	
Test Voltage/Range	500V 30kΩ to 2000GΩ (2TΩ) 1000V 100kΩ to 4000GΩ (4TΩ) 2500V 100kΩ to 10,000GΩ (10TΩ) 5000V 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 ±5% of Reading ±3cts 40GΩ to 10TΩ ±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	>40% of test voltage
Guard Terminal	Yes
ELECTRICAL	
Power Source	One 9.6V NiMH battery pack (included); Line power: 85 to 256VAC (50/60Hz)



FEATURES

- True Megohmmeter*
- Simple operation
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 30kΩ to 10,000GΩ (10TΩ)
- 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 >40% of test voltage)
- Automatic discharge and display of discharge voltage
- Large backlight LCD dual-display with time, voltage and measurements shown
- Rugged, dual wall, water-resistant field case
- Designed and built to IEC safety standards
- EN 61010-1, 1000V CAT III

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 USB drive with user manual.



CATALOG NO.	DESCRIPTION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, 500V, 1000V, 2500V, 5000V, Auto DAR/PI)
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 (Blue 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 (Blue jumper lead not included)

MEGOHMMETERS

5000V DIGITAL/ANALOG

MODELS 5050 & 5060

Designed with the highest level of safety features built in

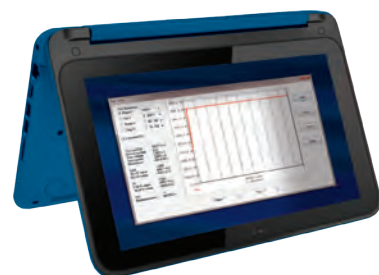


Model 5060

DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

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



SEE PAGE 101 FOR DETAILS

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
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 — selectable at 3, 10 or 20% of test voltage
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	1500 readings
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)	

PRODUCT INCLUDES

5050, 5060 & 5070

Extra large classic tool bag, set of three 10 ft. (5kV) leads (red/black/blue) with integral 5000V rated hippo clips, one guard terminal jumper lead, US 115V power cord, rechargeable battery pack and user manual.



Shown: Model 5050

PC RS-232 CABLE

Catalog #2119.45
DB9 F/F 6ft null modem cable
Catalog #5000.60
RS-232 to USB adapter
(Models 5060 & 5070)



USB DRIVE

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



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, RS-232 with DataView® software)

MODEL 5070

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



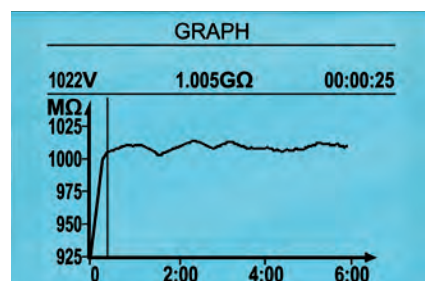
SPECIFICATIONS

MODEL	5070
INSULATION TESTS	
Test Voltage	500V 30kΩ to 2000GΩ (2TΩ) 1000V 100kΩ to 4000GΩ (4TΩ) 2500V 100kΩ to 10,000GΩ (10TΩ) 5000V 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 ±5% of Reading ±3cts 40GΩ to 10TΩ ±15% of Reading ±10cts
Voltage Test/Safety Check	2500VAC/4000Vdc
Voltage Warning Indicator	Yes >25V
Test Inhibition	Yes — selectable at 3, 10 or 20% of test voltage
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)



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
- Calculations of Step Voltage through front panel
- 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 >3%, 10%, or 20% of test voltage)
- Automatic discharge and display of discharge voltage
- Graphic and digital display of test voltage, resistance and more (Model 5070)
- Bright blue electroluminescent backlight
- Programmable temperature compensation (Model 5070)
- 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, water-resistant field case
- Designed and built to IEC safety standards
- Includes DataView® software for data retrieval, real-time display, analysis and report generation (Models 5060 & 5070)
- EN 61010-1, 1000V CAT III



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

CATALOG NO.	DESCRIPTION
2130.30	Megohmmeter Model 5070 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Step V, Auto DAR/PI/DD, RS-232 with DataView® software)
2119.45	Cable- Replacement PC RS-232, DB9 F/F 6 ft Null Modem Cable

MODELS 6550

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



FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40V to 10kV
- Wide measurement range from 10kΩ to 25TΩ
- 5mA short circuit 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 retrieval, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView® software

SPECIFICATIONS

MODELS	6550
INSULATION TESTS	
Test Voltage	500V 10kΩ to 2000GΩ (2TΩ) 1000V 10kΩ to 4000GΩ (4TΩ) 2500V 10kΩ to 10,000GΩ (10TΩ) 5000V 10kΩ to 15,000GΩ (15TΩ) 10,000V 10kΩ to 25,000GΩ (25TΩ)
Fixed Test Voltages	500/1000/2500/5000/10,000V
Variable Voltages	Variable: 40 to 10kV Three user programmable voltage schemes
Ramp Mode	Programmable ramps: start voltage/end voltage/duration
Ramp Configuration Range	40 to 1100V/500 to 10,000V
Step Mode	Up to 10 steps (voltage and duration configurable for each step)
Voltage Test/Safety Test	0 to 2500Vac; 0 to 4000Vdc
Capacitance Measurement	0.005 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
Dimensions / Weight	13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 13.7lbs (6.2kg)
EMC, Mechanical Protection, Altitude	EN 61326-1, IP54, 2000m
Electrical Safety	1000V CAT IV; IEC61010-1 and IEC 61557

PRODUCT INCLUDES

Small classic tool bag, set of color-coded (red/blue/black) 9ft (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 DRIVE

USB drive supplied with DataView® software and user manual.



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, DataView® software)

MODEL 6555

The only fully automated 15,000V graphical insulation tester, including the ability to test program up to three step voltage profiles



SPECIFICATIONS

MODELS		6555
INSULATION TESTS		
Test Voltage	500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ (2TΩ) 10kΩ to 4000GΩ (4TΩ) 10kΩ to 10,000GΩ (10TΩ) 10kΩ to 15,000GΩ (15TΩ) 10kΩ to 25,000GΩ (25TΩ) 10kΩ to 30,000GΩ (30TΩ)
Fixed Test Voltages		500/1000/2500/5000/ 10,000/15,000V
Variable Voltages		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 15,000V
Step Mode		Up to 10 steps (voltage and duration configurable for each step)
Voltage Test/Safety Test		0 to 2500V _{ac} ; 0 to 4000V _{dc}
Capacitance Measurement		0.005 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
Dimensions / Weight		13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 13.7lbs (6.2kg)
EMC, Mechanical Protection, Altitude		EN 61326-1, IP54, 2000m
Electrical Safety		1000V CAT IV; IEC61010-1 and IEC 61557

FEATURES

- True Megohmmeter*
- Fixed or programmable test voltage from 40V to 15kV
- Wide measurement range from 10kΩ to 30TΩ
- 5mA short circuit 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 retrieval, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView® software

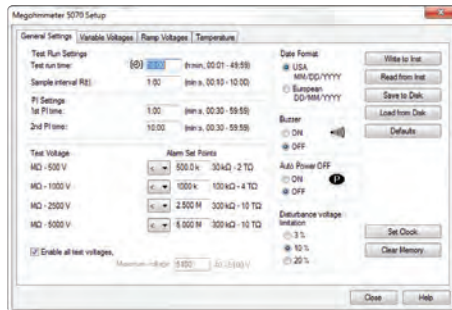
CATALOG NO.	DESCRIPTION
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, 15kV, Ramp, StepV, Variable, Auto DAR/PI/DD, DataView® software)
2151.18	Lead – One Shielded Safety Lead (black) 25 ft w/Hippo Clips (15kV)
2151.19	Lead – One Shielded Safety Lead (blue) 25 ft w/Hippo Clips (15kV)
2151.20	Lead – One Shielded Safety Lead (red) 25 ft w/Hippo Clips (15kV)
2151.21	Lead – One Shielded Safety Lead (black) 45 ft w/Hippo Clips (15kV)
2151.22	Lead – One Shielded Safety Lead (blue) 45 ft w/Hippo Clips (15kV)
2151.23	Lead – One Shielded Safety Lead (red) 45 ft w/Hippo Clips (15kV)

CONFIGURE ALL FUNCTIONS OF THE MEGOHMMETER MODELS 1060, 5060, 5070, 6526, 6532, 6534, 6550 & 6555

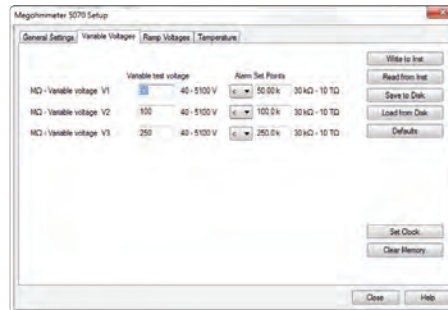


- Print reports of all test results
- Select test voltage and run tests from your computer with a simple click and execute process
- Capture and display data in real-time
- Retrieve data from the instrument's memory for:
 - Over 1500 insulation resistance measurements
 - Over 4000 resistance measurements
- 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

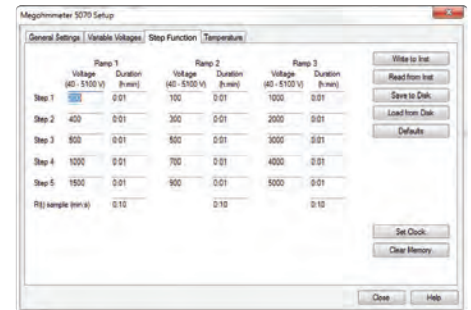
TYPICAL DATAVIEW® FUNCTIONAL DISPLAYS



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.

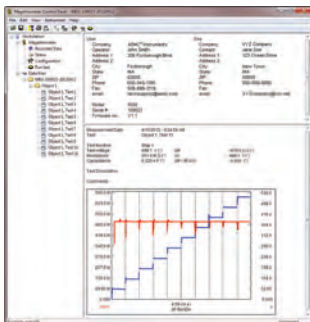


Variable Voltage selections from 40 to 5100V and can also be programmed along with alarm set points.

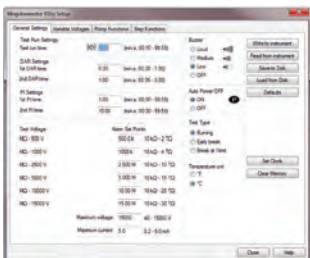


Model 5070 includes Step Function which allows programming of three different ramp test profiles, each containing up to five voltage steps between 40 and 5100V and time per step of up to 10 hours.

DISPLAYS

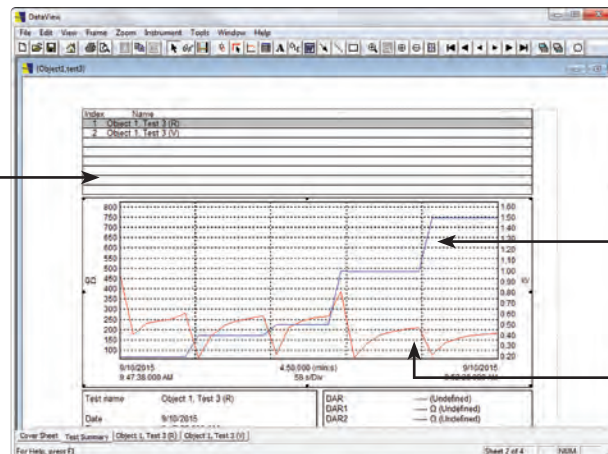


All stored test results presented on screen.



Clear and straightforward set up of parameters.

Test result status box displays complete test results in real-time



Step voltage during the test run

Insulation resistance with temperature compensation

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

MEGOHMMETERS

SELECTION CHART

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	TEST VOLTAGE	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE DETECTION	POWER SOURCE	DISPLAY	DATAVIEW SOFTWARE
6501	2126.51	500V	0.5 to 200M Ω	0 to 500k Ω	0 to 100 Ω	—	0 to 600Vac	Hand-cranked	Analog	No
6503	2126.52	250V 500V 1000V	1 to 500M Ω 1 to 500M Ω 10 to 5000M Ω	—	—	—	0 to 600Vac	Hand-cranked	Analog	No
6527	2126.53	250V 500V 1000V	1k Ω to 4G Ω 1k Ω to 4G Ω 1k Ω to 4G Ω	0.0 to 400.0k Ω	0.00 to 400 Ω	—	0 to 600Vac 0 to 1000Vdc	6 x AA Alkaline Batteries	Digital/ Analog	No
1026	2117.72	250V 500V 1000V	1k Ω to 4G Ω	4k Ω	0 to 40 Ω	—	0 to 600Vac/dc	8 x AA Alkaline Batteries	Digital/ Analog	No
6522	2155.51	250V 500V 1000V	50k Ω to 40G Ω	—	10 Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6524	2155.52	50V 100V 250V 500V 1000V	10k Ω to 200G Ω	1000k Ω	10 Ω , 100 Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6526	2155.53	50V 100V 250V 500V 1000V	10k Ω to 200G Ω	1000k Ω	10 Ω , 100 Ω	0.1n to 10 μ F	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6532	2155.54	50V 100V	10k Ω to 20G Ω	1000k Ω	10 Ω , 100 Ω	0.1n to 10 μ F	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6534	2155.55	10V 25V 100V 250V 500V	2k Ω to 50G Ω	1000k Ω	10 Ω , 100 Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10V 100V	2k Ω to 20G Ω	1000k Ω	10 Ω , 100 Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57									
1050	2130.01	50V 100V 250V 500V 1000V	2k Ω to 200G Ω 4k Ω to 400G Ω 10k Ω to 1T Ω 20k Ω to 2T Ω 40k Ω to 4T Ω	0.01 to 400k Ω	0.01 to 39.99 Ω	0.005 to 4.999 μ F	0 to 1000Vac/dc	8 x 1.5V C Cell Batteries	Digital/ Analog	No
1060	2130.03	50V 100V 250V 500V 1000V	2k Ω to 200G Ω 4k Ω to 400G Ω 10k Ω to 1T Ω 20k Ω to 2T Ω 40k Ω to 4T Ω	0.01 to 400k Ω	0.01 to 39.99 Ω	0.005 to 4.999 μ F	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6505	2130.18	500V 1000V 2500V 5000V	30k Ω to 2000G Ω 100k Ω to 4000G Ω 100k Ω to 10,000G Ω 300k Ω to 10,000G Ω	—	—	0.005 to 49.99 μ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5050	2130.20	500V 1000V 2500V 5000V	30k Ω to 2T Ω 100k Ω to 4T Ω 100k Ω to 10T Ω 300k Ω to 10T Ω	—	—	0 to 49.99 μ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5060	2130.21	500V 1000V 2500V 5000V	30k Ω to 2T Ω 100k Ω to 4T Ω 100k Ω to 10T Ω 300k Ω to 10T Ω	—	—	0 to 49.99 μ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
5070	2130.30	500V 1000V 2500V 5000V	30k Ω to 2T Ω 100k Ω to 4T Ω 100k Ω to 10T Ω 300k Ω to 10T Ω	—	—	0 to 49.99 μ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Graphic/ Digital	Yes
6550	2130.31	500V 1000V 2500V 5000V 10,000V	10k Ω to 2000G Ω 10k Ω to 4000G Ω 10k Ω to 10,000G Ω 10k Ω to 15,000G Ω 10k Ω to 25,000G Ω	—	—	0.001 to 9.999 μ F 10.00 to 19.99 μ F	0 to 2500Vac 0 to 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6555	2130.32	500V 1000V 2500V 5000V 10,000V 15,000V	10k Ω to 2000G Ω 10k Ω to 4000G Ω 10k Ω to 10,000G Ω 10k Ω to 15,000G Ω 10k Ω to 25,000G Ω 10k Ω to 30,000G Ω	—	—	0.001 to 9.999 μ F 10.00 to 19.99 μ F	0 to 2500Vac 0 to 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes