## **MEGOHMMETERS** For all of your Insulation Testing needs...

#### An array of Megohmmeters to choose from

AEMC<sup>®</sup> offers a full line of megohmmeters with test voltages from 10V to 15kV, (model dependent), capable of measuring insulation resistances from 1000Ω to 29TΩ . These rugged, weather resistant meters are accurate, reliable and built to perform. Battery, AC powered and hand-cranked models are available.

<image>

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.

7 Technical Hotline: (800) 343-1391 www.aemc.com



## **Understanding Insulation Resistance Testing**

#### Why have an insulation testing program?

A regular program of testing insulation resistance is strongly recommended to prevent electrical shocks, assure personal safety and to reduce or eliminate down time. It helps to detect deterioration of insulation in order to schedule repair work such as: vacuum cleaning, steam cleaning, drying and rewinding or testing newly installed conductors. It is also helpful when evaluating the quality of the repairs before the equipment is put back into operation.

#### What causes insulation failure?

Some of the more common causes of insulation failure include: overloading conductors, excessive heat or cold, moisture, dirt, corrosive vapors, oil, vibration, aging and nicked wiring.

## What tests are used to detect insulation deterioration?

There are numerous maintenance tests for assessing insulation quality. The three tests primarily used to test motors, generator and transformer insulation are: polarization index, spot reading and step voltage.



Model 6555 performing an insulation test.

#### What equipment is necessary for conducting insulation resistance tests?

- Megohmmeter with a timed test function
- Temperature indicator
- Humidity meter (not necessary if equipment temperature is above the dew point)

## Four questions for selecting the proper megohmmeter

#### What is the proper voltage range?

Typically 2x equipment operating voltage up to 1000V and equal to the operating voltages above 1000V

What is the desired power source? Battery, AC powered, hand-cranked

What is the resistance range of interest? M\Omega, G\Omega, T $\Omega$ 

#### What type of display is preferred?

Analog (best for trend analysis), or Digital (eliminate guesswork), or gives exact reading and shows trend

## **APPLICATIONS**

- Motors (AC and DC), transformers, cables, switchgears and electrical wiring installations
- Test industrial commercial wiring and motor control centers
- Acceptance testing and preventive maintenance
- Domestic and industrial contracting
- Dielectric Absorption Ratio (DAR) and Polarization Index (PI) measurements
- Spot reading tests
- ► High resistance or absorption tests
- Timed resistance measurements
- Low insulation test range for testing old or flooded installations
- Drying out conductors
- Continuity checks
- Cable testing (including telecom)
- Test transformers
- ▶ Heaters, relays, circuit breakers

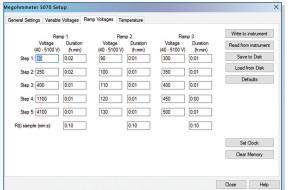


# **Data***View*<sup>®</sup>

#### **Data Analysis & Reporting Software for Megohmmeters**

#### Configure All Functions of: 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:
  - Over 1500 insulation resistance measurements (model dependent)
  - 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



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

fools Help

-

2 Download

**F** Run Test

results

Two easy clicks

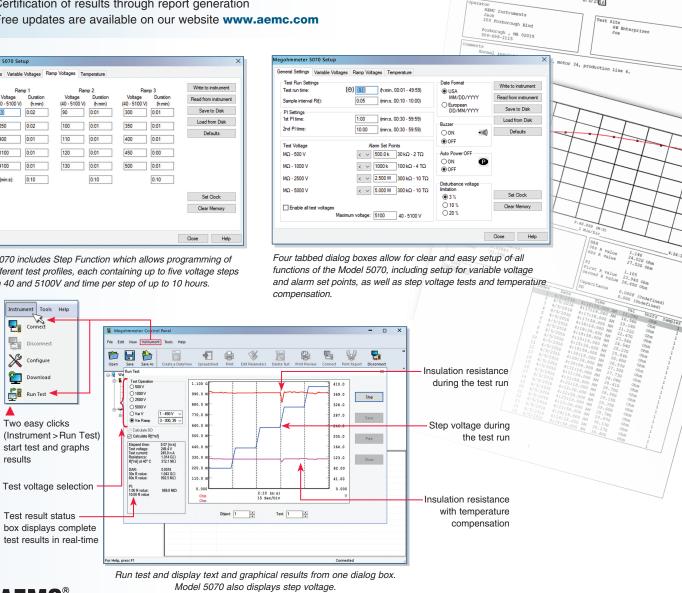


Test Repo 4/5/2016

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

ATIC REPORT

AEMC





#### **MEGOHMMETER SELECTION GUIDE**



#### 10V & 100V Megohmmeters

AEMC<sup>®</sup> offers low voltage insulation testers designed for both field and shop use. They are well suited for measuring the qualities of phone cables data cables and ESD Floor Testing. Measurement of AC and DC voltage, resistance, continuity, cable capacitance, cable length and AC current can also be performed.



#### **500V Megohmmeters**

AEMC<sup>®</sup> offers a complete line of insulation testers designed to test the quality of insulation on equipment powered from sources up to 240V using test voltages up to 500V. Both analog and digital meters are available. AC powered, battery powered and hand-cranked models are available. Measurements can be in the M $\Omega$ , G $\Omega$  and T $\Omega$ range. Most models offer multi-function capability, measuring AC/DC volts, resistance and continuity, as well as insulation resistance.



#### **1000V Megohmmeters**

AEMC<sup>®</sup> offers a complete line of insulation testers designed to test the quality of insulation using 1000V test voltage (required for testing equipment powered from sources up to 480V<sub>AC</sub>). Both analog and digital meters are available. AC powered, battery powered and hand-cranked models are available. Many models can measure into the GΩ and TΩ range. Most models offer multi-function capability, measuring AC/DC volts, resistance and continuity, as well as insulation resistance. Both hand-held instruments and rugged instruments built into portable cases are available.



#### **5000V Megohmmeters**

AEMC<sup>®</sup> offers a complete line of insulation testers designed to test the quality of insulation using 5000V test voltages required for testing large motors, generators, transformers, cables and large rotating machinery. AC powered and battery powered models are available. All models can measure into the G $\Omega$  and T $\Omega$  ranges. All models offer multifunction capability, measuring AC/ DC volts, resistance and continuity, as well as insulation resistance.



#### 10kV & 15kV Megohmmeters

AEMC<sup>®</sup> offers a complete line of safe and accurate insulation testers that are ideal for use on rotating equipment and machinery operating at 10kV or higher. They are the only fully automated 10,000V and 15,000V graphical insulation testers. They provide insulation measurements up to 29,000G $\Omega$ (29T $\Omega$ ). Test results include DAR, PI, DD,  $\Delta$ R, Capacitance, Leakage Current, as well as programmable temperature correction of resistance readings.

## **Expert tools for testing**

# 10kV & 15kV

### **Digital Megohmmeters**

High-end portable instruments for measuring a variety of electrical insulation resistance values.



#### The Models 6550 &

6555 also offer the ability to program up to three step voltage profiles (from 40 to 10,000 or 15,000V, model dependent), each containing up to ten steps. They also include three ramp profiles

and three programmable test voltages in addition to the standard fixed voltages of 500, 1000, 2500, 5000, 10,000 and 15,000V. These units have a USB interface and a data storage function, which permits storage of test results in files specific to the device under test. The included DataView<sup>®</sup> software configures and runs tests directly from a PC and creates data analysis reports.

Note: 1000V, 5000V, 10kV & 15kV megohmmeters offer memory storage and PC connection for report generation (model dependent).



# Safely & Accurately Models 6550 & 6555

| MODEL              | 6550  |  |  |
|--------------------|---|--|--|
| Test Voltage       | 500V, 1000V, 2500V, 5000V, 10,000V  |  |  |
| Insulation Range   | 10k $\Omega$ to 25,000G $\Omega$  |  |  |
| Other Measurements | Auto DAR, PI, DD, $\Delta R$ (ppm/V) ratios   |  |  |
| Leakage Current    | 0 to 8mA  |  |  |
| Voltage Test       | 40 to 10kV  |  |  |
|                    | Ramp and Voltage Test, Capacitance Measurement,<br>Programmable Current Tests, Ramp & Step Test and Burn Test |  |  |
| Power Source       | NiMH rechargeable batteries   |  |  |
| Display            | Digital / Analog  |  |  |
| Communication      | DataView® software/USB optically-isolated port  |  |  |
| Dimensions         | 13.39 x 11.81 x 7.87"   |  |  |
| Weight             | Approx. 13.7lb (6.2kg)  |  |  |
| Catalog No.        | 2130.31   |  |  |

| MODEL                     | 6555  |  |  |
|---------------------------|---|--|--|
| Test Voltage              | 500V, 1000V, 2500V, 5000V, 10,000V, 15,000V   |  |  |
| Insulation Range          | 10kΩ to 29,000GΩ (29TΩ)   |  |  |
| <b>Other Measurements</b> | Auto DAR, PI, DD, $\Delta R$ (ppm/V) ratios   |  |  |
| Leakage Current           | 0 to 8mA  |  |  |
| Voltage Test              | 40 to 15kV  |  |  |
|                           | and Voltage Test, Capacitance Measurement,<br>Ile Current Tests, Ramp & Step Test and Burn Test |  |  |
| Power Source              | NiMH rechargeable batteries   |  |  |
| Display                   | Digital / Analog  |  |  |
| Communication             | DataView® software / USB optically-isolated port  |  |  |
| Dimensions                | 13.39 x 11.81 x 7.87"   |  |  |
| Weight                    | Approx. 13.7lb (6.2kg)  |  |  |
| Catalog No.               | 2130.32   |  |  |

#### 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.





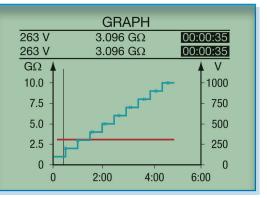
#### ENTS Technical Assistance (800) 343-1391

## Multiple Voltage Ramp & Step Test Modes

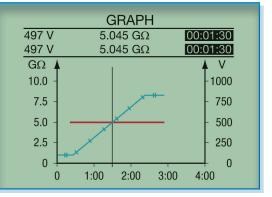
#### "Burn-In" Test Mode

| 500 V <b>100</b> |            |
|------------------|------------|
| Input voltage    | 10 V AC    |
| Frequency        | 50.0 Hz    |
| Input current    | 24.6 nA    |
| Date 2017.01.06  | Time 10:31 |

#### Voltage Step Test Mode



#### Voltage Ramp Test Mode



#### **1000V Model 1015**



## CE 🗆

| Test Voltage                           | 500, 1000Vpc                         |  |  |
|--|--------------------------------------|--|--|
| Insulation Range                       | 100k $\Omega$ to 1000M $\Omega$      |  |  |
| <b>Resistance Range</b>                | 1000Ω                                |  |  |
| <b>Continuity Range</b> $\pm 10\Omega$ |                                      |  |  |
| Voltage Measurement 600Vac             |                                      |  |  |
| Power Source                           | Power Source Eight 1.5V AA batteries |  |  |
| Display                                | Display Analog                       |  |  |
| Other                                  | er Rubber housing                    |  |  |
| Dimensions                             | imensions 6.6 x 4.2 x 2.2"           |  |  |
| Weight                                 | 1.45 lbs                             |  |  |
| Catalog No.                            | 1403.01                              |  |  |

#### For Electrostatic Discharge Testing Model 6536





| Test Voltage   Adjustable 10 - 100Vpc |                        |  |  |  |
|---------------------------------------|------------------------|--|--|--|
| <b>Insulation Range</b>               | <b>20G</b> Ω           |  |  |  |
| <b>Resistance Range</b>               | 1000kΩ                 |  |  |  |
| <b>Continuity Range</b>               | 10Ω, 100Ω              |  |  |  |
| Voltage Measurement 700Vac/dc         |                        |  |  |  |
| Power Source                          | Six AA batteries       |  |  |  |
| Display Digital/Analo                 | g, bargraph, backlight |  |  |  |
| Other                                 | Alarm, ∆REL            |  |  |  |
| Dimensions                            | 8.30 x 4.25 x 2.36"    |  |  |  |
| Weight                                | 1.87 lbs               |  |  |  |
| Catalog No.                           | 2155.56                |  |  |  |
| Catalog No.                           | 2155.57                |  |  |  |
| Model 6536 ESD Floor                  | r Test Kit             |  |  |  |

#### 500V & 1000V Hand-Cranked Models 6501 & 6503





| MODELS                     | 6501   | 6503                 |  |  |
|----------------------------|--|----------------------|--|--|
| Test Voltage               | 500Vdc                                       | 250, 500,<br>1000Vpc |  |  |
| Insulation Range 5         | 00k $\Omega$ to 200M $\Omega$                | 1 to $5000M\Omega$   |  |  |
| <b>Resistance Range</b>    | 0 to 500k $\Omega$                           | —                    |  |  |
| <b>Continuity Range</b>    | 100Ω   | —                    |  |  |
| Voltage Measurement 600Vac |  |                      |  |  |
| Power Source               | Hand-c                                       | ranked               |  |  |
| Display                    | An   | alog                 |  |  |
| Test Current 1mA           | constant current                             | —                    |  |  |
| Other ABS plast            | Other ABS plastic with overmolded protection |                      |  |  |
| Dimensions                 | 4.7 x 4.4 x 5.3"                             | with lid             |  |  |
| Weight                     | 3.3 lbs                                      |                      |  |  |
| Catalog No.                | 2126.51                                      | 2126.52              |  |  |

#### 1000V Digital/Analog Models 1050 & 1060



| MODELS                  | 1050                | 1060   |  |
|-------------------------|---------------------|--|--|
| Test Voltage            | 50, 100, 250,       | 500, 1000Vpc                                 |  |
| Insulation Range        | $2k\Omega$ to $400$ | 00GΩ (4TΩ)                                   |  |
| Other Measurement       | DAR, PI, C          | apacitance                                   |  |
| Resistance Range        | 0.01Ω t             | o 400kΩ                                      |  |
| Continuity Range        | 0.01 to             | 39.99Ω                                       |  |
| Voltage Measurement     | 1000                | Vac/dc                                       |  |
| Memory (Readings)       | 20                  | 128kb  |  |
| Power Source Eight 1.5V | C cell batteries    | 9.6V NiMH battery pack                       |  |
| Display D               | igital/Analog, ba   | rgraph, backlight                            |  |
| Communication —         |                     | /iew <sup>®</sup> software<br>to USB adapter |  |
| Dimensions              | 9.45 x 7.2          | 28 x 4.33"                                   |  |
| Weight                  | 7.5 lbs             |  |  |
| Catalog No.             | 2130.01             | 2130.03                                      |  |
|                         |                     |  |  |

#### **1000V Digital Model 6527**





**CE** 



| Test Voltage                             | 250, 500, 1000Vpc               |  |  |
|--|---------------------------------|--|--|
| TCSt Wonage                              | 230, 300, 1000 000              |  |  |
| Insulation Range                         | e 1kΩ to 4000MΩ (4GΩ)           |  |  |
| <b>Resistance Rang</b>                   | <b>ge</b> 400kΩ                 |  |  |
| <b>Continuity Rang</b>                   | <b>e</b> 400Ω                   |  |  |
| Voltage Measurement 600V (AC);1000V (DC) |                                 |  |  |
| Power Source Six 1.5V AA batteries       |                                 |  |  |
| Display Digi                             | tal dual display with backlight |  |  |
| Other Hold                               | d, Test Time & Lock functions   |  |  |
| Dimensions                               | 7.9 x 3.6 x 2.0"                |  |  |
| Weight                                   | 1.5 lbs                         |  |  |
| Catalog No.                              | 2126.53                         |  |  |

#### 5000V Digital/Analog Model 6505



| Test Voltage                                       | 500, 1000, 2500, 5000Vpc |  |  |
|--|--------------------------|--|--|
| <b>Insulation Range</b> $30k\Omega$ to $10T\Omega$ |                          |  |  |
| Other Measureme                                    | ent DAR, PI, Capacitance |  |  |
| Leakage Current 1pA to 3mA                         |                          |  |  |
| Voltage Measurement 1 to 5100Vac                   |                          |  |  |
| Power Source                                       | 9.6V NiMH battery pack   |  |  |
| Display  | Digital/Analog           |  |  |
| Communication                                      | —                        |  |  |
| Dimensions   | 10.63 x 9.84 x 7.09"     |  |  |
| Weight   | 9.5 lbs                  |  |  |
| Catalog No.  | 2130.18                  |  |  |





| Pum  | r Testing Moto<br>ps & Transforn<br>s 6522, 6524 &  | ners   | NEW!  |  | nsulation Measurements<br>or Electrical Components<br>Model 6534  |
|--|---|--|---|--|---|
|  |   |  |   |  |   |
| SAFETA<br>600V   |   | 6526   |   |  |   |
| MODELS   | 6522  |  | C € □<br>6526   |  |   |
| MODELS   | <b>6522</b>   | 6524   | 6526  | Test Voltage 50, 100V Tes  | <b>t Voltage</b> 10, 25, 100, 250, 500Vpc   |
| MODELS<br>Test Voltage   | 250, 500, 1000Vpc   | <b>6524</b><br>50, 100, 250  | <b>6526</b><br>, 500, 1000Vdc   | Test Voltage   50, 100V   Tes     Insulation Range   20GΩ   Insulation   | t Voltage 10, 25, 100, 250, 500Vpc<br>ulation Range 50GΩ  |
| MODELS<br>Test Voltage<br>Insulation Rat   | 250, 500, 1000Vbc<br>nge 40GΩ   | <b>6524</b><br>50, 100, 250<br>20  | <b>6526</b><br>, 500, 1000Vpc<br>0GΩ  | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   | t Voltage   10, 25, 100, 250, 500Vbc     ulation Range   50GΩ     sistance Range   1000kΩ   |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra  | 250, 500, 1000Vbc<br>nge 40GΩ<br>ange —   | <b>6524</b><br>50, 100, 250<br>20<br>100   | <b>6526</b><br>, 500, 1000Vdc   | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   | t Voltage   10, 25, 100, 250, 500Vbc     ulation Range   50GΩ     sistance Range   1000kΩ   |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra<br>Continuity Ra   | 250, 500, 1000Vbc     nge   40GΩ     ange   —     nge   10Ω   | <b>6524</b><br>50, 100, 250<br>20<br>100   | <b>6526</b><br>, 500, 1000Vpc<br>0GΩ<br>00kΩ                                    | $\begin{tabular}{ c c c c c c } \hline Test Voltage & 50, 100V & Tes \\ \hline Insulation Range & 20G\Omega & Insu \\ \hline Resistance Range & 1000k\Omega & Res \\ \hline Continuity Range & 10\Omega, 100\Omega & Con \\ \hline Voltage Measurement & 700VAc/Dc & Voltage \\ \hline \end{tabular}$  | t Voltage   10, 25, 100, 250, 500Vbc     ulation Range   50GΩ     sistance Range   1000kΩ     ntinuity Range   10Ω, 100Ω  |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra<br>Continuity Ra<br>Voltage Meas   | 250, 500, 1000Vbc<br>nge 40GΩ<br>ange —<br>nge 10Ω<br>urement   | <b>6524</b><br>50, 100, 250<br>20<br>100<br>10Ω  | <b>6526</b><br>, 500, 1000Vpc<br>0GΩ<br>00kΩ                                    | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   | t Voltage   10, 25, 100, 250, 500Vbc     ulation Range   50GΩ     sistance Range   1000kΩ     ntinuity Range   10Ω, 100Ω     tage Measurement   700Vac/bc   |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra<br>Continuity Ra<br>Voltage Meas<br>Memory (Meas                                     | 250, 500, 1000Vbc<br>nge 40GΩ<br>ange —<br>nge 10Ω<br>urement<br>surements)   | 6524<br>50, 100, 250<br>20<br>100<br>10Ω<br>700VAc/DC  | 6526<br>, 500, 1000Vpc<br>0GΩ<br>00kΩ<br>, 100Ω                                 | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   | t Voltage   10, 25, 100, 250, 500Vbc     ulation Range $50G\Omega$ sistance Range $1000k\Omega$ ntinuity Range $10\Omega$ , $100\Omega$ tage Measurement $700Vac/bc$ mory (Measurements) $1300$   |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra<br>Continuity Ra<br>Voltage Meas<br>Memory (Meas<br>Power Source                     | 250, 500, 1000Vpc<br>nge 40GΩ<br>ange —<br>nge 10Ω<br>urement<br>surements)<br>S                                    | <b>6524</b><br>50, 100, 250<br>20<br>10Ω<br>700Vac/bc<br>300                                       | 6526<br>, 500, 1000Vbc<br>0GΩ<br>00kΩ<br>, 100Ω<br>1300                         | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   | the Voltage 10, 25, 100, 250, 500Vpc<br>ulation Range $50G\Omega$<br>sistance Range $1000k\Omega$<br>ntinuity Range $10\Omega$ , $100\Omega$<br>tage Measurement $700Vac/pc$<br>mory (Measurements) 1300<br>ver Source Six AA batteries<br>play Digital/Analog, bargraph  |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra<br>Continuity Ra<br>Voltage Meas<br>Memory (Meas<br>Power Source<br>Display          | 250, 500, 1000Vpc<br>nge 40GΩ<br>ange —<br>nge 10Ω<br>urement<br>surements)<br>S                                    | 6524<br>50, 100, 250<br>20<br>10Ω<br>700Vac/bc<br>300<br>ix AA batteries                           | 6526<br>, 500, 1000Vbc<br>0GΩ<br>00kΩ<br>, 100Ω<br>1300                         | Test Voltage 50, 100V Test   Insulation Range 20GΩ Insu   Resistance Range 1000kΩ Resistance   Continuity Range 10Ω, 100Ω Continuity   Voltage Measurement 700Vac/bc Voltage   Memory (Measurements) 1300 Measurements   Power Source Six AA batteries Power   Display Digital/Analog, bargraph Disp   Other Lead Compensation, Alarms Oth   | the Voltage 10, 25, 100, 250, 500Vpc<br>ulation Range $50G\Omega$<br>sistance Range $1000k\Omega$<br>ntinuity Range $10\Omega$ , $100\Omega$<br>tage Measurement $700Vac/pc$<br>mory (Measurements) 1300<br>ver Source Six AA batteries<br>play Digital/Analog, bargraph  |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra<br>Continuity Ra<br>Voltage Meas<br>Memory (Meas<br>Power Source<br>Display<br>Other | 250, 500, 1000Vpc<br>nge 40GΩ<br>ange —<br>nge 10Ω<br>urement<br>surements)<br>S Si<br>Digital<br>Lead Compensation | 6524<br>50, 100, 250<br>20<br>10Ω<br>700Vac/bc<br>300<br>ix AA batteries<br>//Analog, bargr        | 6526<br>, 500, 1000Vbc<br>0GΩ<br>)0kΩ<br>, 100Ω<br>1300<br>aph<br>Pass/Fail LED | Test Voltage 50, 100V Test   Insulation Range 20GΩ Insulation   Resistance Range 1000kΩ Resistance   Continuity Range 10Ω, 100Ω Continuity   Voltage Measurement 700VAc/bc Voltage   Memory (Measurements) 1300 Menory   Power Source Six AA batteries Power   Display Digital/Analog, bargraph Displother   Other Lead Compensation, Alarms Oth   | t Voltage 10, 25, 100, 250, 500Vpc<br>ulation Range $50G\Omega$<br>sistance Range $1000k\Omega$<br>tinuity Range $10\Omega$ , $100\Omega$<br>tage Measurement $700Vac/pc$<br>mory (Measurements) $1300$<br>ver Source Six AA batteries<br>play Digital/Analog, bargraph<br>ler $\Delta REL$ , Lead Compensation<br>tensions $8.30 \times 4.25 \times 2.36$ "    |
| MODELS<br>Test Voltage<br>Insulation Rai<br>Resistance Ra  | 250, 500, 1000Vpc<br>nge 40GΩ<br>ange —<br>nge 10Ω<br>urement<br>surements)<br>S Si<br>Digital<br>Lead Compensation | 6524<br>50, 100, 250<br>20<br>10Ω<br>700Vac/bc<br>300<br>ix AA batteries<br>/Analog, bargr<br>ΔREL | 6526<br>, 500, 1000Vbc<br>0GΩ<br>)0kΩ<br>, 100Ω<br>1300<br>aph<br>Pass/Fail LED | Test Voltage 50, 100V Test   Insulation Range 20GΩ Insulation Range 1000kΩ   Resistance Range 1000kΩ Resistance   Continuity Range 10Ω, 100Ω Contout   Voltage Measurement 700VAc/bc Volt   Memory (Measurements) 1300 Menory   Power Source Six AA batteries Power   Display Digital/Analog, bargraph Display Display   Other Lead Compensation, Alarms Other Dimensions   Bimensions 8.30 x 4.25 x 2.36" Dimensions Weight | the Voltage 10, 25, 100, 250, 500Vpc<br>ulation Range $50G\Omega$<br>sistance Range $1000k\Omega$<br>thinuity Range $10\Omega$ , $100\Omega$<br>tage Measurement $700Vac/pc$<br>mory (Measurements) $1300$<br>ver Source Six AA batteries<br>play Digital/Analog, bargraph<br>ler $\Delta REL$ , Lead Compensation<br>tensions $8.30 \times 4.25 \times 2.36''$ |

## 5000V Digital/Analog Model 5050



| Test Voltage                                       | 500, 1000, 2500, 5000Vpc               |  |  |  |
|--|--|--|--|--|
| <b>Insulation Range</b> $30k\Omega$ to $10T\Omega$ |  |  |  |  |
| Other Measurement DAR, PI, DD, Capacitance         |  |  |  |  |
| Dielectric Discharge 0.02 to 50.00                 |  |  |  |  |
| Leakage Current 3mA                                |  |  |  |  |
| Voltage Measure                                    | ement 1 to 2500Vac/dc                  |  |  |  |
| Memory (Readings) 20                               |  |  |  |  |
| <b>Power Source</b> 9.6V NiMH battery pack         |  |  |  |  |
| Digital/Analog, bargraph, backlight                |  |  |  |  |
| Communication —                                    |  |  |  |  |
| Dimensions   | <b>Dimensions</b> 10.63 x 9.84 x 7.09" |  |  |  |
| Weight   | 9.5 lbs                                |  |  |  |
| Catalog No.  | . 2130.20                              |  |  |  |
|  |  |  |  |  |



**Model 5060** 

| Test Voltage  | 500, 1000, 2500, 5000Vpc           |  |  |
|---|------------------------------------|--|--|
| <b>Insulation Range</b>   | $30k\Omega$ to $10T\Omega$         |  |  |
| <b>Other Measuremen</b>   | nt DAR, PI, DD, Capacitance        |  |  |
| Dielectric Discharge 0.02 to 50.00  |                                    |  |  |
| Leakage Current   | 3mA                                |  |  |
| Voltage Measurem  | ent 1 to 2500Vac/dc                |  |  |
| Memory (Readings)   | ory (Readings) 1500                |  |  |
| Power Source  | wer Source 9.6V NiMH battery pack  |  |  |
| Display   | $10\Omega$ , $100\Omega$ backlight |  |  |
| Communication DataView® software / 128kB<br>memory with RS-232 to USB adapter |                                    |  |  |
| Dimensions  | <b>s</b> 10.63 x 9.84 x 7.09"      |  |  |
| Weight  | 9.5 lbs                            |  |  |
| Catalog No.   | 2130.21                            |  |  |

#### **5000V Graphical Model 5070**



| Test Voltage   | 500, 1000, 2500, 5000VDC   |
|--|--|
| <b>Insulation Range</b>  | $30 k\Omega$ to $10 T\Omega$                                     |
| Other Measureme<br>Step  | nt DAR, PI, DD, Capacitance,<br>/oltage & Temperature Correction |
| <b>Dielectric Dischar</b>  | <b>'ge</b> 0.02 to 50.00   |
| Leakage Current  | 3mA  |
| Voltage Measurer   | nent 1 to 2500Vac/dc   |
| Memory (Readings)  | 1500   |
| Power Source   | 9.6V NiMH battery pack   |
| Display  | Graphical 300 x 240 resolution                                   |
| Communication DataView <sup>®</sup> software/ 128kB<br>memory with RS-232 to USB adapter |  |
| Dimensions   | 10.63 x 9.84 x 7.09"   |
| Weight   | 9.5 lbs  |
| Catalog No.  | 2130.30  |



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Since its creation in 1893, Chauvin Arnoux<sup>®</sup> has continued to successfully innovate and develop new products in response to customer needs and applications. Over the years, Chauvin Arnoux® has developed extensive expertise and knowledge in many product lines, including: current probes, multimeters (the first multimeter patented in 1937!), ground testers, insulation testers, environmental testers and many others in the portable test instrument realm.

#### One product line that stands out is Insulation Testers/Megohmmeters.

Our megohmmeter line finds its roots in the early 1900s. Limited technology was available, so a galvanometer and a decade resistance box combined with a DC power source was used to make one of the first megohmmeters. Years later, hand-cranked technology, first using a generator, provided the test voltage. Today, similar technology is used in the Models 6501 and 6503 hand-cranked magnetizer, but a regulated alternator provides rectified test voltage and a sealed case protects the meter from the environment. Electronics set in the 1950s and 60s gave birth to electronic megohmmeters with electronic amplifiers. Eventually, digital displays came to the scene, though analog meters remained due to customer habits and preference.

Today, megohmmeters are digital and incorporate many intelligent features. Timers, alarms and variable test voltages are becoming common. AEMC® introduced a unique line of professional megohmmeters (Models 1050, 1060, 5050, 5060, 5070, 6505, 6527, 6522, 6524, 6526, 6532, 6534, 6536,6550 & 6555) with added features, such as: memory; automated tests and results (internal calculations of DAR, PI and other measurements); graphical displays; PC control; and, report compliant software. Market feedback has been very positive and the megohmmeters are setting new industry standards. All AEMC<sup>®</sup> manufactured megohmmeters are designed to the latest international safety and testing standards, and are CE marked.

First Megohmmeter Introduced in 1909

Model 6555 Introduced in 2012







Call the AEMC® Instruments Technical Assistance Hotline for immediate consultation with an applications engineer: (800) 343-1391 Chauvin Arnoux®, Inc. d.b.a AEMC® Instruments • 200 Foxborough Blvd. • Foxborough, MA 02035 USA • (800) 343-1391 • (508) 698-2115 • Fax (508) 698-2118 Export Department: (603) 749-6434 (ext 520) • Fax (603) 742-2346 • E-mail: export@aemc.com

950.BR-MEGOHM 0117Rev10 Printed in the USA