Quick Start Guide
ENGLISH

AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

Megohmmeter
Models 6550 & 6555

MEGOHMMETERS

Measure Up
WITH AEMC INSTRUMENTS®

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments
15 Faraday Drive • Dover, NH 03820 USA
Phone: (603) 749-6434 or (800) 343-1391 • Fax: (603) 742-2346

Statement of Compliance

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments certifies that this instrument has been calibrated using standards and instruments traceable to international standards.

We guarantee that at the time of shipping your instrument has met the instrument's published specifications.

An NIST traceable certificate may be requested at the time of purchase, or obtained by returning the instrument to our repair and calibration facility, for a nominal charge.

The recommended calibration interval for this instrument is 12 months and begins on the date of receipt by the customer. For recalibration, please use our calibration services. Refer to our repair and calibration section at www.aemc.com/calibration.

Serial #: _____

Catalog #: **2130.31 / 2130.32**

Model #: **6550 / 6555**

Please fill in the appropriate date as indicated:

Date Received: _____

Date Calibration Due: _____

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www.aemc.com

PRODUCT PACKAGING

10 kV Megohmmeter Model 6550
Cat. #2130.31
or
15 kV Megohmmeter Model 6555
Cat. #2130.32

Small Classic Tool Bag
Cat. #2133.72

15 kV Jumper Lead

Set of 3 color-coded (red/blue/black)
10 ft (15 kV) integral leads
Cat. #2151.36

115 V US Power Cord
Cat. #5000.14

Optical USB Cable
Cat. #2135.41

Also Included:

(1) USB Stick with DataView® Software and complete user manual for Models 6550 & 6555

(2) 9.6 V NiMH Batteries (Cat. #2140.19 Each)

Thank you for purchasing an **AEMC® Instruments Megohmmeter Model 6550 or Model 6555**.

For the best results from your instrument and for your safety, you must read the enclosed operating instructions carefully and comply with the precautions for use. Only qualified and trained operators should use this product.

Symbols and Definitions

	Signifies that the instrument is protected by double or reinforced insulation.
	Indicates a risk of electric shock. The voltage at the parts marked with this symbol may be dangerous.
	**CAUTION - Risk of Danger!** Indicates a **WARNING**. Whenever this symbol is present, the operator must refer to the user manual before operation.
	Battery
	Indicates Important information to acknowledge
	USB socket
	Ground/Earth
	This product complies with the Low Voltage & Electromagnetic Compatibility European directives.
	Chauvin Arnoux® and AEMC® Instruments have adopted an Eco-Design approach in order to design this instrument. Analysis of the complete lifecycle has enabled us to control and optimize the effects of the product on the environment. In particular this instrument exceeds regulation requirements with respect to recycling and reuse.
	In the European Union, this product is subject to a separate collection system for recycling electrical and electronic components in accordance with directive WEEE 2012/19/EU.

Definition of Measurement Categories (CAT)

CAT IV corresponds to measurements performed at the primary electrical supply (< 1000 V).

Example: primary overcurrent protection devices, ripple control units, and meters.

CAT III corresponds to measurements performed in the building installation at the distribution level.

Example: hardwired equipment in fixed installation and circuit breakers.

CAT II corresponds to measurements performed on circuits directly connected to the electrical distribution system.

Example: measurements on household appliances and portable tools.

⚠ Precautions Before Use

This instrument and its accessories comply with safety standards IEC/EN 61010-2-030 or BS EN 61010-2-030 and IEC/EN 61010-031 or BS EN 61010-031 for voltages of 1000 V in Category IV. Failure to observe the safety instructions may result in electric shock, fire, explosion, and destruction of the instrument and installations.

- The operator and/or the responsible authority must carefully read and clearly understand the various precautions to be taken in use. Sound knowledge and a keen awareness of electrical hazards are essential when using this instrument.
- If the instrument is used other than as specified, the protection it provides may be compromised, thereby endangering you.
- Do not use the instrument on networks of which the voltage or category exceeds those mentioned.
- Do not use the instrument if it seems to be damaged, incomplete, or poorly closed.
- Before each use, check the condition of the insulation on the leads, housing, and accessories. Any item of which the insulation is deteriorated (even partially) must be set aside for repair or scrapping.
- Use only the leads and accessories supplied. Using leads (or accessories) of a lower voltage or category reduces the voltage or category of the combined instrument and leads (or accessories) to that of the leads (or accessories).
- Use personal protection equipment systematically.
- Keep your hands away from the terminals of the instrument.
- When handling the leads, test probes, and alligator clips, keep your fingers behind the physical guard.
- As a safety measure, and to avoid interference, do not move and do not handle the leads during measurements.

Charging the Battery

Fully charge the battery before the first use.

Charging must be conducted at a temperature between (32 and 86) °F (0 and 30) °C.

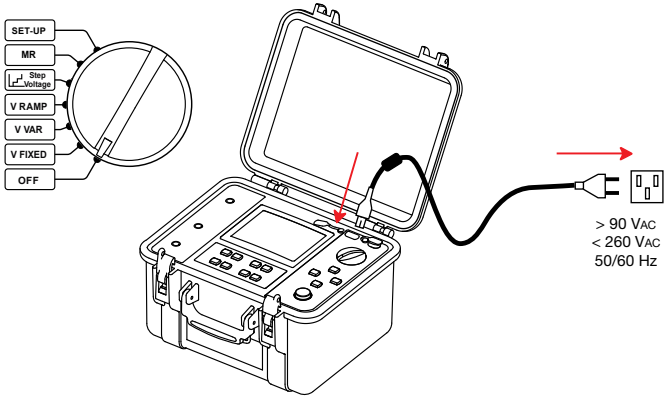
The batteries automatically begin charging when the instrument is connected to AC power.

Only use the supplied AC power adapter to charge the batteries.

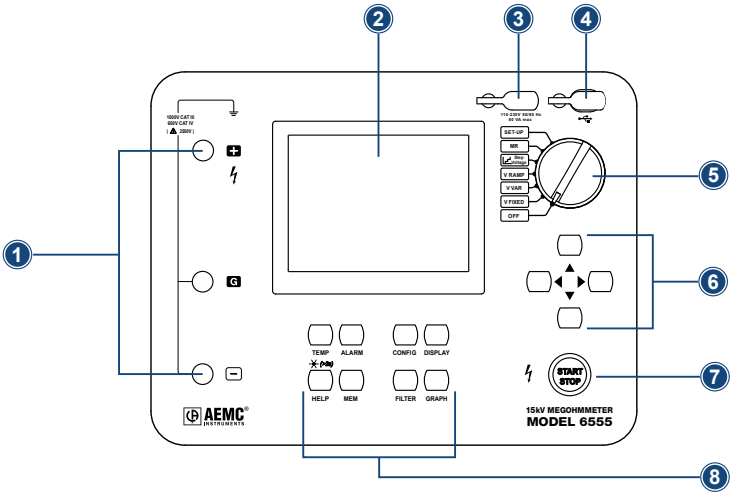
NOTE: A full charge of a completely discharged battery takes approximately 6 to 10 h.

To charge the battery:

- Set the rotary switch to the **OFF** position.
- Connect the supplied power cord to the instrument and AC power.
- During charging, the following is displayed: The percentage charge of each of the batteries, their voltages, their charging currents, their temperatures, and the charging times.



Control Features



1. Safety connection terminals **+**, **G** and **-**.
2. Graphical, digital LCD.
3. Power receptacle for charging the batteries.
4. USB connection for communication with a PC.
5. Seven-position rotary function switch.
6. Navigation buttons for moving the cursor, selecting and changing values.
7. **START/STOP** measurement button.
8. Eight function buttons.

Button Functions

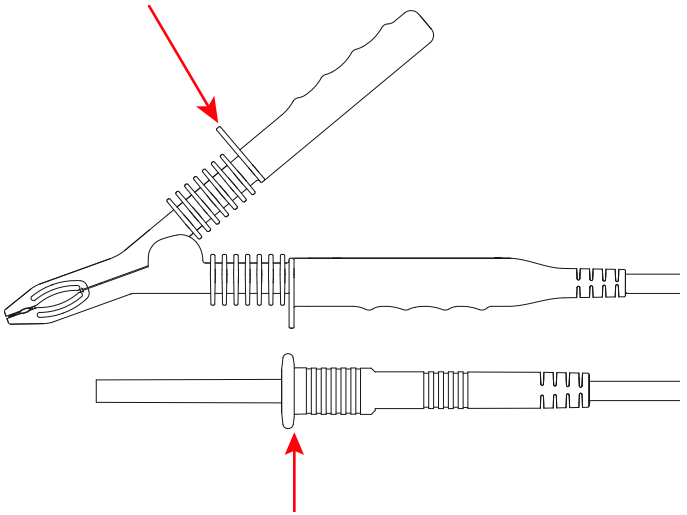
ICON	DESCRIPTION
TEMP	Enters temperature and humidity information and calculate temperature corrected resistance
ALARM	Enables/Disables the alarms
HELP / ☀	Displays Help information; Enables/Disables the backlighting of the display
MEM	Stores the measurements
CONFIG	Configuration of the measurement parameters
DISPLAY	Switch between screens
FILTER	Smoothing of the measurements
GRAPH	Switch graph mode ON/OFF

Using the Leads

Specific leads are supplied with the instrument. To use them, attach either the test probes or alligator clips (supplied with the instrument).

WARNING: These accessories have hand guards. For safety reasons, the user's hands must always be behind the hand guard.

Always keep hands behind the protective guards indicated below:



Measurements of voltages ≥1000 V on supply lines should be made using the test probes only, with the user's hands behind the hand guard on the lead.

WARNING: The leads with large clips (automobile battery charger type) proposed as accessories should not be used for line voltage measurements because their jaws are not insulated.

Instrument Configuration (SET-UP)

NOTE: The instrument is factory configured. For most measurements, simply choose the test voltage and press the **START/STOP** button.

However, configuration can be performed by one of these two methods:

- The **SET-UP** function allows overall configuration of the instrument independently of which measurement functions are chosen.
- The **CONFIG** button allows configuration of the chosen measurement function before and during a measurement.

NOTE: A configuration made by either method, is updated for both (**SET-UP** function or **CONFIG** button).

PARAMETER	FUNCTION
Buzzer	Sets the audible level of beeps: 1, 2, 3, or Off (no sound).
Auto-Power OFF	If enabled, the instrument will turn off after 5 minutes of no activity.
Baud Rate	Sets the data rate of the serial interface to 9600, 19200, 38400 or 57600 bauds.
Date	Sets the date in yyyy-mm-dd format.
Time	Sets the time in hh:mm format.
Temperature Unit	Chooses the temperature unit: Celsius or Fahrenheit.
Instrument Number	Indicates the number of the instrument (cannot be modified).
Firmware	Indicates the two version numbers of the firmware in the instrument (cannot be modified).

Installing DataView®

NOTE: Do not connect the instrument to the PC before installing the software and drivers.

1. Insert the USB stick into an available USB port (wait for driver to be installed).
2. If Autorun is enabled, an AutoPlay window should appear. If Autorun is disabled, it will be necessary to open Windows Explorer, then locate and open the USB stick drive labeled “DataView” to view the files on the drive.
3. In the AutoPlay window, select “Open folder to view files”.
4. Double-click on Setup.exe from the opened folder view to launch the Dataview® setup program.

NOTE: For more information on using DataView®, refer to the Model 6550 & 6555 user manual that is supplied on the USB stick or the Help file within the software.

Updating Software & Firmware

Free software and firmware updates are available on our website: www.aemc.com. DataView® can also be updated by selecting **Update** from the Help menu within the software.

Repair and Calibration

To ensure that your instrument meets factory specifications, we recommend that it be sent back to our factory Service Center at one-year intervals for recalibration or as required by other standards or internal procedures.

For instrument repair and calibration:

You must contact our Service Center for a Customer Service Authorization Number (CSA#). Send an email to repair@aemc.com requesting a CSA#, you will be provided a CSA Form and other required paperwork along with the next steps to complete the request. Then return the instrument along with the signed CSA Form. This will ensure that when your instrument arrives, it will be tracked and processed promptly. Please write the CSA# on the outside of the shipping container. If the instrument is returned for calibration, we need to know if you want a standard calibration or a calibration traceable to N.I.S.T. (includes calibration certificate plus recorded calibration data).

Ship To: Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments
15 Faraday Drive ▪ Dover, NH 03820 USA
Phone: (800) 945-2362 (Ext. 360) / (603) 749-6434 (Ext. 360)
Fax: (603) 742-2346
E-mail: repair@aemc.com

(Or contact your authorized distributor.)

Contact us for the costs for repair, standard calibration, and calibration traceable to N.I.S.T.

NOTE: You must obtain a CSA# before returning any instrument.

Technical and Sales Assistance

If you are experiencing any technical problems or require any assistance with the proper operation or application of your instrument, please call, e-mail or fax our technical support team:

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments
Phone: (800) 343-1391 (Ext. 351)
Fax: (603) 742-2346
E-mail: techsupport@aemc.com
www.aemc.com

Limited Warranty

The instrument is warrantied to the owner for a period of two years from the date of original purchase against defects in manufacture. This limited warranty is given by AEMC® Instruments, not by the distributor from whom it was purchased. This warranty is void if the unit has been tampered with, abused, or if the defect is related to service not performed by AEMC® Instruments.

Full warranty coverage and product registration is available on our website at www.aemc.com/warranty.html.

Please print the online Warranty Coverage Information for your records.

What AEMC® Instruments will do:

If a malfunction occurs within the warranty period, you may return the instrument to us for repair, provided we have your warranty registration information on file or a proof of purchase. AEMC® Instruments will repair or replace the faulty material at our discretion.

REGISTER ONLINE AT: www.aemc.com/warranty.html

Warranty Repairs

What you must do to return an Instrument for Warranty Repair:

First, send an email to repair@aemc.com requesting a Customer Service Authorization Number (CSA#) from our Service Department. You will be provided a CSA Form and other required paperwork along with the next steps to complete the request. Then return the instrument along with the signed CSA Form. Please write the CSA# on the outside of the shipping container. Return the instrument, postage or shipment pre-paid to:

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments
15 Faraday Drive, Dover, NH 03820 USA
Phone: (800) 945-2362 (Ext. 360) / (603) 749-6434 (Ext. 360)
Fax: (603) 742-2346
E-mail: repair@aemc.com

Caution: To protect yourself against in-transit loss, we recommend that you insure your returned material.

NOTE: You must obtain a CSA# before returning any instrument.

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www.aemc.com