

Megohmmeter Models 6550 & 6555

Quick Start Guide

ENGLISH



www.aemc.com

AEMC[®]
INSTRUMENTS
CHAUVIN ARNOUX GROUP

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Tel: (800) 945-2362 or (603) 749-6434 • Fax: (603) 742-2346

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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 its 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**.

Serial #: _____

Catalog #: 2130.31/2130.32

Model #: 6550/6555

Please fill in the appropriate date as indicated:

Date Received: _____

Date Calibration Due: _____



Chauvin Arnoux®, Inc.
d.b.a AEMC® Instruments
www.aemc.com

PRODUCT PACKAGING

Shipping Contents:



10kV Megohmmeter Model 6550

Cat. #2130.31

or

15kV Megohmmeter Model 6555

Cat. #2130.32



15kV Jumper Lead

Cat. #2151.37



115V US Power Cord

Cat. #5000.14



Small Classic Tool Bag

Cat. #2133.72



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

Cat. #2151.36



Optical USB Cable

Cat. #2135.41












Also Included:

- USB Stick with DataView® and User Manual
- 2x9.6V NiMH batteries (Cat. #2140.19 each)

USB STICK: DataView® software and complete user manual for the Model 6550 & 6555 can be located on the USB stick supplied with the instrument.

Thank you for purchasing a **Megohmmeter Model 6550/6555**.

For best results from your instrument and for your safety, read the enclosed operating instructions carefully and comply with the precautions for use. These products must be only used by qualified and trained users.

	Signifies that the instrument is protected by double or reinforced insulation.
	CAUTION - DANGER! Read the User Manual.
	Risk of electric shock. The voltage at the parts marked with this symbol may be dangerous.
	Important instructions to read and to fully understand.
	Useful information or tip to read.
	USB socket.
	Ground/Earth.
	The UKCA marking certifies that the product is compliant with the requirements that apply in the United Kingdom, specifically regarding Low-Voltage Safety, Electromagnetic Compatibility, and the Restriction of Hazardous Substances.
	The CE marking guarantees conformity with European directives and with regulations covering EMC.
	Chauvin Arnoux® Inc. d.b.a. AEMC® Instruments has 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.
	The trash can with a line through it means that in the European Union, the product must undergo selective disposal for the recycling of electric and electronic material, in compliance with Directive WEEE 2002/96/EC.



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 1000V 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.

Definition of Measurement Categories (CAT)

- **CAT IV** - 3-Phase at utility connection, outdoor conductors:
 - Origin of installation, or where low-voltage connection is made to utility power
 - Electricity meters, primary overcurrent protection equipment
 - Outside and service entrance, service drop from pole to building, runs between meter & panel
 - Overhead line to detached building, underground line to well pump
- **CAT III** - 3-Phase distribution, including single-phase commercial lighting:
 - Equipment in fixed installations, such as switchgear and polyphase motors
 - Bus and feeder in industrial plants
 - Feeders and short branch circuits, distribution panel devices
 - Appliance/equipment outlets with short connections to service entrance
- **CAT II** - Single-phase, receptacle-connected loads:
 - Appliances, portable tools, and other similar light industrial/household loads
 - Outlet and long-branch circuits
 - Outlets at more than 30 ft from CAT III source
 - Outlets at more than 60 ft from CAT IV source

Charging the Battery

Fully charge the battery before the first use.

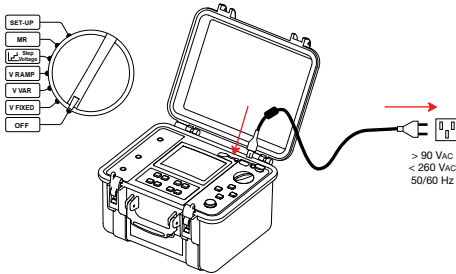
Charging must be conducted at a temperature between 32° and 86°F (0° and 30°C).

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

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



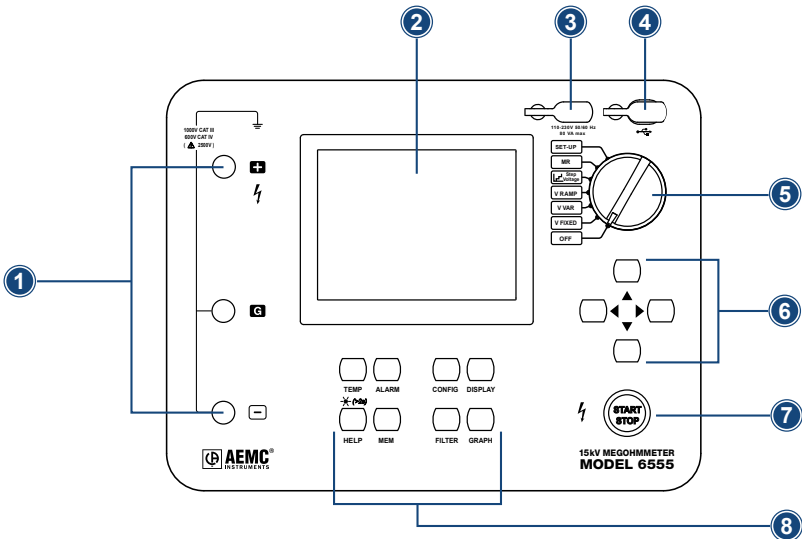
NOTE: A full recharge of a completely discharged battery takes 6 to 10 hrs approx.



To recharge 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 recharging 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

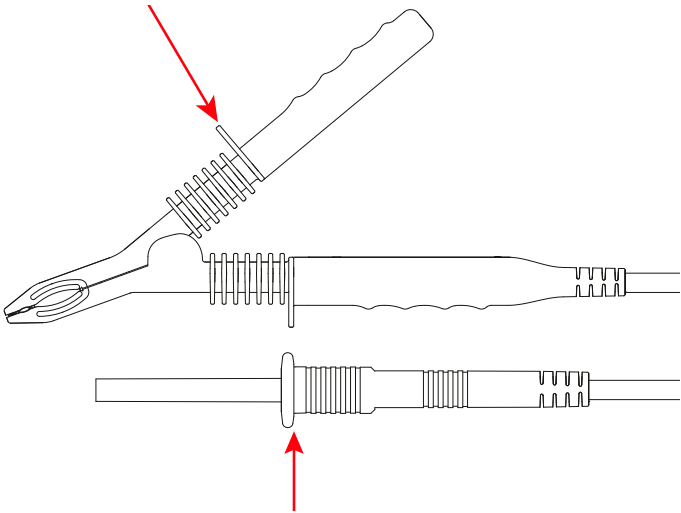
Using the Leads

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



NOTE: 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 $\geq 1000V$ 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®



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 scheduled 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#). 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 or (603) 749-6309
E-mail: repair@aemc.com

(Or contact your authorized distributor)

Costs for repair, standard calibration, and calibration traceable to N.I.S.T. are available.

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, mail, fax or e-mail our technical support team:

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments
15 Faraday Drive
Dover, NH 03820 USA
Phone: (800) 343-1391 (Ext. 351)
Fax: (603) 742-2346
E-mail: techsupport@aemc.com
www.aemc.com

Limited Warranty

The Model 6550 & 6555 is warranted 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 registration is available on our website: **www.aemc.com**.

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, at its option, repair or replace the faulty material.

Register your product online at www.aemc.com

Warranty Repairs

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

First, request a Customer Service Authorization Number (CSA#) by phone or by fax from our Service Department (see address below), 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:

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 or (603) 749-6309
E-mail: repair@aemc.com

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

You must obtain a CSA# before returning any instrument.



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