

■ MEGOHMMETER

6505

Hi-Potential Technologies

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ENGLISH

User Manual

 **AEMC**[®]
INSTRUMENTS

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 #: 2130.18

Model #: 6505

Please fill in the appropriate date as indicated:

Date Received: _____

Date Calibration Due: _____



AEMC®
INSTRUMENTS

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

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INTRODUCTION









! WARNING

This instrument is protected against accidental voltages of not more than 1000V with respect to earth in measurement Category III. The protection provided by the instrument may be compromised if it is used in a way not specified by the manufacturer.

- Make no measurements on conductors likely to be connected to a live source.
- Comply with the rated voltage and maximum current and the measurement category.
- Never exceed the protection limits indicated in the specifications.
- Comply with the conditions for use: temperature, humidity, altitude, degree of pollution and place of use.
- Do not use the instrument or its accessories if they seem damaged.
- Use only the accessories delivered with the unit, compliant with safety standards (IEC 61010-2-031).
- Respect the value and type of the fuse (see § 5.2) to avoid damaging the instrument and voiding the warranty.
- Set the switch to OFF when the instrument is not in use.
- Repairs and metrological verifications must be carried out by approved, qualified personnel.
- Wear the appropriate protective gear (insulated boots & gloves).

1.1 Symbols

	Signifies that the instrument is protected by double or reinforced insulation.
	CAUTION - Risk of Danger! Indicates a WARNING and that the operator must refer to the user manual for instructions before operating the instrument in all cases where this symbol is marked.
	Risk of electric shock. The voltage at the parts marked with this symbol may be dangerous.

	Ground/Earth
	Important instructions to read and understand completely
	Important information to acknowledge
	Battery
	Fuse
	USB socket
	The CE marking guarantees conformity with European directives and with regulations covering EMC.
	The trashcan 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.

1.2 Definition of Measurement Categories

- CAT I:** For measurements on circuits not directly connected to the AC supply wall outlet such as protected secondaries, signal level, and limited energy circuits.
- CAT II:** For measurements performed on circuits directly connected to the electrical distribution system. Examples are measurements on household appliances or portable tools.
- CAT III:** For measurements performed in the building installation at the distribution level such as on hardwired equipment in fixed installation and circuit breakers.
- CAT IV:** For measurements performed at the primary electrical supply (<1000V) such as on primary overcurrent protection devices, ripple control units, or meters.

1.3 Receiving Your Shipment

Upon receiving your shipment, make sure that the contents are consistent with the packing list. Notify your distributor of any missing items. If the equipment appears to be damaged, file a claim immediately with the carrier and notify your distributor at once, giving a detailed description of any damage. Save the damaged packing container to substantiate your claim.

1.4 Ordering Information

Megohmmeter Model 6505..... Cat. #2130.18

Includes small classic tool bag, set of 3 color-coded 6 ft leads [5000V] (red, blue, black), set of three color-coded alligator clips 600V CAT IV (red, blue, black), one blue jumper lead for use with guard terminal, fuse 0.1A 380V, rechargeable battery pack (installed), US 115V power cord and user manual.

1.4.1 Accessories and Replacement Parts

Replacement - 1 ft jumper lead **Cat. #2119.78**

Leads - Set of three, 10 ft safety leads [5000V]
(red, blue, black) and set of three alligator clips **Cat. #2119.76**

Replacement - Set of three, 6 ft safety leads [5000V]
(red, blue, black)..... **Cat. #2119.77**

Fuse, set of 5, 0.1A, 380V, 5 x 20, .10kA **Cat. #2119.84**

Leads - Set of three, 10 ft safety leads [5kV]
(red, blue, black) with integral 5kV hippo clips **Cat. #2119.85**

Leads - Set of three, 25 ft safety leads [5kV]
(red, blue, black) with integral 5kV hippo clips **Cat. #2119.86**

Leads - Set of three, 45 ft safety leads [5kV]
(red, blue, black) with integral 5kV hippo clips **Cat. #2119.87**

Replacement - Small classic tool bag..... **Cat. #2133.72**

Replacement - Safety alligator (red) 600V CAT IV **Cat. #2140.52**

Replacement - Safety alligator (black) 600V CAT IV **Cat. #2140.53**

Replacement - Safety alligator (blue) 600V CAT IV **Cat. #2140.54**

Replacement - 9.6V rechargeable NiMH battery..... **Cat. #2960.21**

Replacement - Power Cord 115V US Plug..... **Cat. #5000.14**

Order Accessories and Replacement Parts Directly Online

Check our Storefront at www.aemc.com/store for availability

PRODUCT FEATURES

2.1 Description

The Megohmmeter Model 6505 is a portable instrument housed in a rugged field case and operates on either battery or line power. It performs voltage, insulation, and capacitance measurements. This instrument contributes to the safety of electrical installations and equipment.

Features include automatic calculation and presentation of the Dielectric Absorption Ratio (DAR) and Polarization Index (PI). The Model 6505 displays the test voltage, insulation resistance and the leakage current during the test. Capacitance of the sample and discharge voltage present at the test leads is displayed at the conclusion of the test.

The Model 6505 is designed with the highest level of built-in safety features. This meter incorporates test inhibit capabilities which will not allow test voltages to be generated if a live sample is detected. The test terminals are recessed to ensure operating safety.

Features:

- Test voltage combination of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 30k Ω to 10T Ω
- 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 of resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Automatic test inhibition if live sample (>25)
- Automatic discharge and display of discharge voltage
- Large dual-display with time, voltage and measurements shown
- Rugged dual wall weatherproof field case
- Designed and built to IEC safety standards
- EN 61010-1, 1000V CAT III

2.2 Control Features

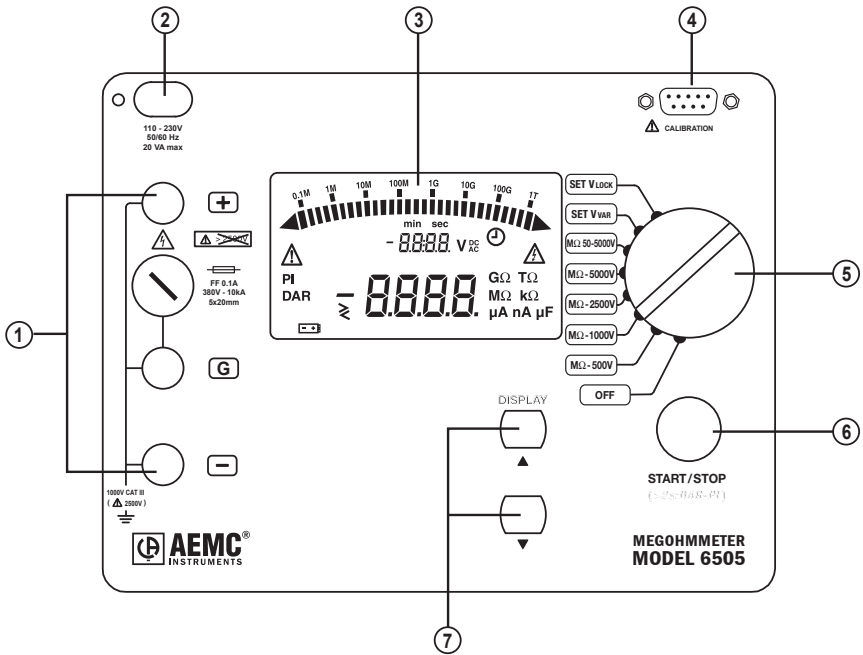


Figure 2-1

Item	Description
1	Connection terminals "+", "G" and "-" and access to the protective fuse
2	AC power plug (direct operation on AC and battery recharge)
3	Back-lit liquid crystal display (see § 2.5)
4	Serial interface male plug (9-pin) for calibration only
5	Rotary selector switch with 8 positions (see § 2.3)
6	START/STOP button
7	Two function buttons (see § 2.4)

2.3 Switch Functions

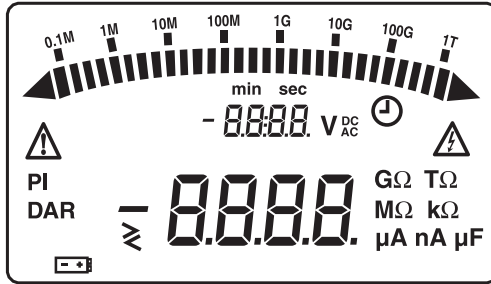
Range	Function
OFF	Instrument powered down
MΩ - 500V	Insulation measurement at 500V, up to 2TΩ
MΩ - 1000V	Insulation measurement at 1000V, up to 4TΩ
MΩ - 2500V	Insulation measurement at 2500V, up to 10TΩ
MΩ - 5000V	Insulation measurement at 5000V, up to 10TΩ
MΩ - 50-5000V	Insulation measurement with variable test voltage
SET V _{VAR}	Sets the user definable test voltage for the variable 50-5000V position
SET V _{LOCK}	Sets the user definable maximum test voltage output irrespective of the insulation measurement positions

2.4 Button Functions

Button	Function
ON/OFF	This button is pressed to start then stop the measurement. A long press starts the measurement of the DAR and of the PI.
DISPLAY	Before, during or after the measurement, pressing this key displays the various measurement parameters.
▲	This function is available only in the SET positions of the switch. Increases the flashing parameter being displayed. To move about the list of interval insulation measurements, in the R(t) function.
▼	This function is available only in the SET positions of the switch. Decreases the flashing parameter being displayed. To move about the list of interval insulation measurements in the R(t) function.

NOTE: If the ▲ and ▼ buttons are held down, the movement between parameters is increased to a faster rate.

2.5 Display



2.5.1 Digital Display

Main Display

Indicates the value of:

- Insulation measurement (resistance, DAR and PI or capacitance).

Small Display

Indicates:

- Voltage measured or applied by the instrument.
- Elapsed time or the output voltage, during insulation measurement.

2.5.2 Bargraph Display

Indicates:

- Active during insulation measurement (0.1MΩ to 1TΩ).
- Indicates the battery charge at start-up.

2.5.3 Display Symbols

	Dangerous voltage generated; $V > 120V$.
	External voltage present, symbol is activated after pressing START, if $V > 25V_{AC} \pm 3V$ or $> 35V_{DC}$.
	Indicates the duration of the measurement, or the time remaining in the case of a PI measurement.
	Indicates the battery is low and must be recharged (see § 5.1).

SPECIFICATIONS

3.1 Reference Conditions

Influence Quantity	Reference Values
Temperature	23 ± 3°C
Relative humidity	45 to 55% RH
Supply voltage	9 to 12V
Frequency range	DC and 15.3 to 65Hz
Capacity in parallel on resistor	0µF
Electrical field	nil
Magnetic field	< 40 A/m

3.2 Voltage

Measurement Range	1.0 to 99.9V	100 to 999V	1000 to 2500V	2501 to 5100V
Frequency Range*	DC and 15 to 500Hz			DC
Resolution	0.1V	1V	2V	2V
Accuracy	1% of Reading ± 5cts	1% of Reading ± 3cts		
Input Impedance	750kΩ at 3MΩ depending on measure voltage			

*Over 500Hz, the small display indicates “- - -” and the main display gives only an assessment of the peak value of the measured voltage.

3.3 Insulation Resistance

Method: Voltage-current method according to EN 61557-2 (ed. 02/97)

Nominal Output Voltage:

500, 1000, 2500, 5000V_{DC} (or adjustable from 40 to 5100V)

No Adjustment in Variable Mode: 10V from 40 to 1000V

100V from 1000 to 5100V

Nominal Current: > 1mADC

Short-circuit Current: $< 1.6\text{mA} \pm 5\%$

Load Current: 3mADC approx when starting measurement

Max. Acceptable Voltage: $U_{\text{peak}} = 0.4U_n$

Test Voltage	500V - 1000V - 2500V - 5000V			
Range	10 to 999k Ω 1.000 to 3.999M Ω	4.00 to 39.99M Ω	40.0 to 399.9M Ω	0.400 to 3.999G Ω
Resolution	1k Ω	10k Ω	100k Ω	1M Ω
Accuracy	$\pm 5\%$ of Reading + 3cts			

Test Voltage	500V - 1000V - 2500V - 5000V			1000V - 2500V 5000V	2500V 5000V
Range	4.00 to 39.99G Ω	40.0 to 399.9G Ω	0.400 to 1.999T Ω	2.000 to 3.999T Ω	4.00 to 9.99T Ω
Resolution	10M Ω	100M Ω	1G Ω		10G Ω
Accuracy	$\pm 5\%$ of Reading + 3cts			$\pm 15\%$ of Reading + 10cts	

Accuracy in variable mode

$R_{\text{measured}} = U_n / 250\text{pA}$

Test voltage	40 to 160V	170 to 510V	520 to 1500V	1600 to 5100V
R measured min	10k Ω	10k Ω	10k Ω	10k Ω
R measured max	160.0G Ω to 640.0G Ω	640.0G Ω to 2.040T Ω	2.080T Ω to 6.000T Ω	6.400T Ω to 10.00T Ω

To obtain the accuracy in variable voltage mode, calculate from the accuracies of the fixed voltages above.

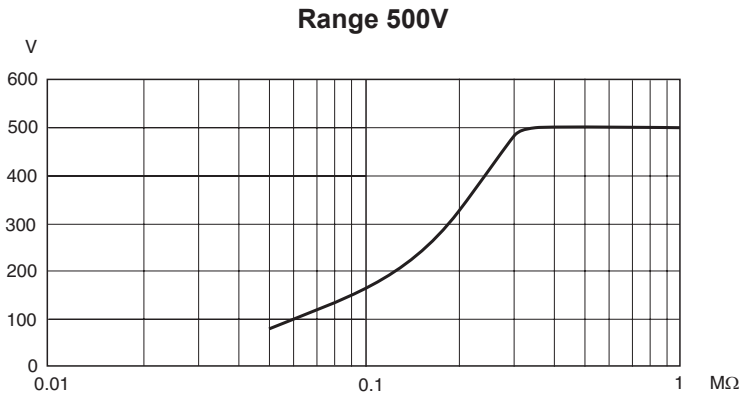
Measurement of the test voltage after a capacitive insulation measurement

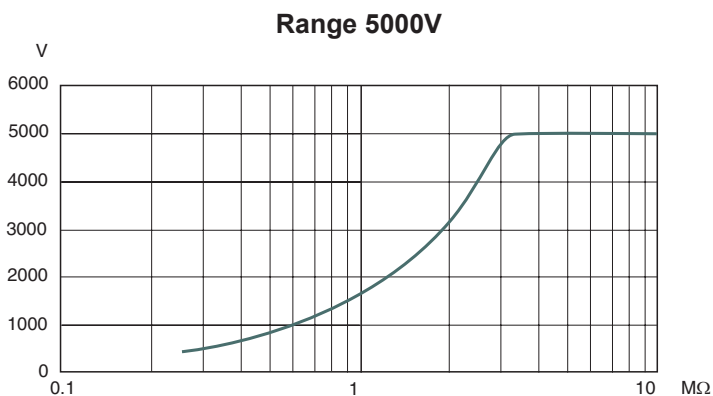
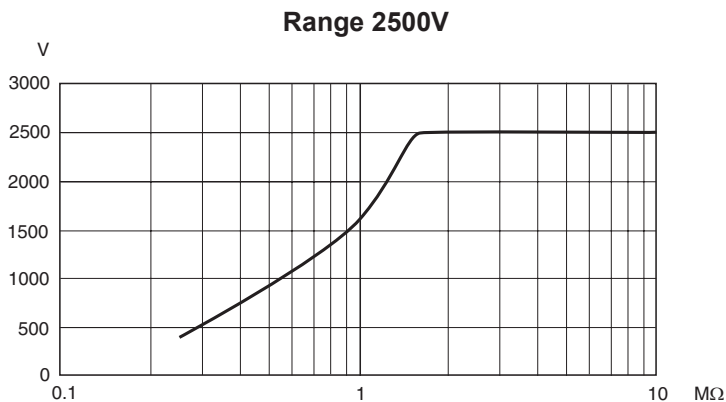
Measurement Range	25 to 5000V
Resolution	0.2% U_n or 1ct
Accuracy	5% of Reading \pm 3cts

Calculation of terms DAR and PI

Specified Range	0.02 - 50.00
Resolution	0.01
Accuracy	5% of Reading \pm 1ct

Typical change curve for test voltages according to load:





3.4 Capacitance

This measurement is made at the end of each insulation measurement, while the circuit is being discharged.

Measurement Range	0.001 to 9.999 μF	10.00 to 49.99 μF
Resolution	1 nF	10 nF
Accuracy	10% of Reading \pm 1ct	10%

3.5 Power Supply

- Rechargeable battery NiMh (8 x 1.2V / 3.5Ah)
- Line Voltage: 85 to 256V / 50-60Hz

Minimum Battery Charge Life (per NF EN 61557-2)

Test Voltage	Nominal Charge	Number of Measurements 5s on nominal charge (with 25s pause between each measurement)
500V	500k Ω	6500
1000V	1M Ω	5500
2500V	2.5M Ω	4000
5000V	5M Ω	1500

Average Battery Life: The operating time will be 15 days or 3 weeks, based upon a 10 minute long PI measurement.

Recharge Time:

Charging must be done between 20 and 30°C

6 hours for 100% capacity (10 hours if the battery is completely drained)

0.5 hours for 10% capacity (charge life: 2 days approximately)



NOTE: It is possible to recharge the batteries while performing insulation measurements provided that the values measured are higher than 20M Ω . In this case, the recharging time is higher than 6 hours and depends on the frequency of the measurements.

3.6 Environmental Specifications

Operating Range:

14° to 104°F (-10° to 40°C) during recharging of batteries

14° to 131°F (-10° to 55°C) during measurement

10 to 80% RH

Storage: -40 to 158°F (-40 to 70°C); 10 to 90% RH

Altitude: <2000m

Use indoors or outdoors

3.7 Mechanical Specifications

Case Dimensions:

10.63 x 9.84 x 7.09" (270 x 250 x 180mm)

Weight: 9.5 lbs (4.3kg) approx.

Mechanical Protection

IP 53 per NF EN 60529 (Ed. 92)

IK 04 per NF EN 50102 (Ed. 95)

3.8 Safety Specifications

Electrical safety according to EN 61010-1 (Ed. 2 for 2001),
EN 61557 (Ed. 2005)



1000V CAT III

2500V CAT I

Pollution Degree 2

Electromagnetic Compatibility:

NF EN 61326-1 (Ed. 97) + A1, industrial environment category

3.9 Variations in Operating Range

Influential Quantity	Range of Influence	Quantity Influenced*	Influence	
			Typical	Max.
Battery Voltage	9V to 12V	V MΩ	<1ct <1ct	2cts 3cts
Temperature	-10° to +55°C	V MΩ	0.15% R/10°C 0.20% R/10°C	0.3% R/10°C ± 1ct 1% R/10°C ± 1ct
Humidity	20 to 80% RH	V MΩ (10kΩ to 40GΩ) MΩ (40GΩ to 10TΩ)	0.2% R 0.2% R 3% R	1% R ± 2cts 1% R ± 5cts 15% R ± 5cts
Frequency	15 to 500Hz	V	0.3% R	0.5% R ± 1ct
AC voltage superimposed on test voltage	0% to 20% Vn	MΩ	0.1% R / % Vn	0.5% R / % Vn ± 5cts

*The terms DAR, PI and the capacity and current leak measurements are included in the quantity "MΩ".

OPERATION



Charge the instrument fully before use (see § 5.1)

4.1 Serial Number

To view the serial number of the instrument, keep the **DISPLAY** button pressed and turn the switch to the **MΩ-500V** position.

4.2 Software Version

To view the internal software version of the instrument, keep the **DISPLAY** button pressed and turn the switch to the **MΩ-1000V** position.



Technical documentation on Understanding Insulation Resistance Testing is available on our website at **www.aemc.com/techinfo**.

4.3 Voltage Measurement

As soon as the switch is set to an insulation measurement position, the instrument automatically measures the presence of any AC/DC voltage. This voltage is measured at all times and indicated on the small display unit.

The instrument automatically determines AC or DC. The AC measurement is an RMS value.

If an excessively high external voltage is present on the terminals ($> 0.4 U_n$), pressing the **START/STOP** button has no effect and no measurements are made. Similarly, if an excessively high erroneous voltage ($> 0.4 U_n$) is detected during the measurement, the measurement is automatically stopped.

4.4 Insulation Measurement

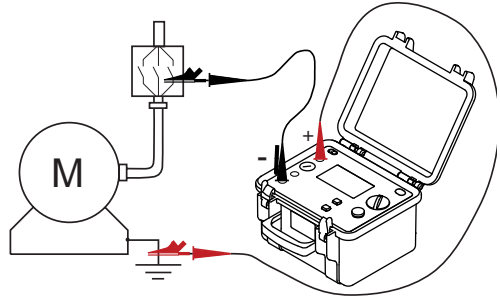
Depending on the measurements to be made, there are three ways to connect the instrument.

In all cases, disconnect the device to be tested from the source.

Weak Insulation

Connect the red high-voltage lead between earth and the + terminal of the instrument.

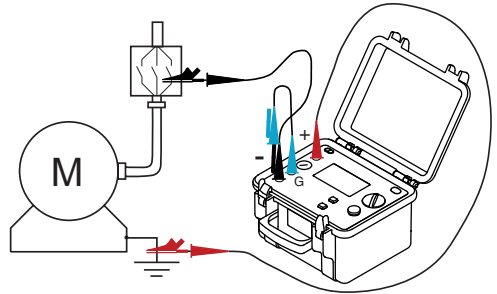
Connect the black high-voltage lead between one phase of the motor and the - terminal of the instrument.



Strong Insulation

For a very high insulation value, connect the small blue high-voltage lead between the rear earth pick-up jack of the black lead and the **G** terminal of the instrument.

This serves to reduce any external influence and obtain a more stable measurement.



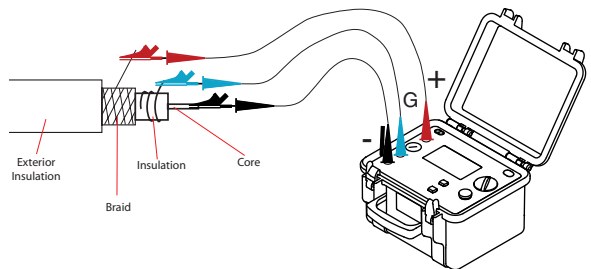
Cable

Connect the red high-voltage lead between the braid and the + terminal of the instrument.

Connect the black high-voltage lead between the core and the - terminal of the instrument.

Connect the blue high-voltage lead between the insulation and the **G** terminal of the instrument.

The guard serves to eliminate the effect of surface leakage currents.



Once the connections have been made, choose the desired test voltage on the rotary switch.

When powered up, the instrument displays the following:

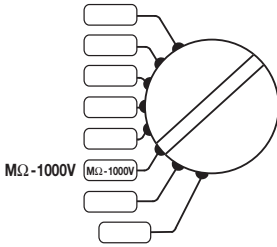
- Condition of the battery
- Test voltage
- Voltage present on the object to be tested
- Press the **START/STOP** button to start the measurement.
- During measurements, the instrument will beep every 10 seconds to alert the user that a high voltage is present.
- Press the **START/STOP** button again to stop the measurement. The instrument continues to measure external voltages but the test result remains displayed on the main display unit.



To ensure your safety, the instrument will automatically discharge the circuit under test, allow for the voltage displayed to fall back below 25V before disconnecting the leads.

Press the DISPLAY button to display:	
Before the measurement (2 presses)	<ul style="list-style-type: none"> • voltage present on the device to be tested • test voltage • surface leakage current
During the measurement (2 presses)	<ul style="list-style-type: none"> • test voltage • instantaneous insulation resistance value • duration of the measurement • current flowing in the resistance being measured
After the measurement (5 presses)	<ul style="list-style-type: none"> • voltage present on the device tested • insulation resistance value just before the measurement was stopped • duration of the measurement • test voltage generated during the measurement • current that flowed in the resistance measured • surface leakage current • capacitance

4.5 PI Measurement



- Set the switch to one of the insulation measurement positions.
- Start the measurement by a long press (>2s) on the **START/STOP** button. The long press is acknowledged by an audible beep.
- The measurement starts the default duration of 10 min. A countdown displays the time remaining. The measurement stops automatically.

Press the DISPLAY button to display:	
Before the measurement (2 presses)	<ul style="list-style-type: none"> • voltage present on the device to be tested • test voltage • leakage current present
During the measurement (4 presses)	<ul style="list-style-type: none"> • measurement time remaining • instantaneous insulation resistance value • test voltage • current flowing in the resistance being measured • value of PI (available at the end of 10 minutes) • value of DAR (available at the end of one minute)
After the measurement (6 presses)	<ul style="list-style-type: none"> • test voltage generated during the measurement • PI and DAR • duration of the measurement • insulation resistance value just before the measurement was stopped • current that flowed in the resistance measured • voltage present on the device being tested • capacitance • surface leakage current

The values of PI and DAR are calculated as follows:

$PI = R_{10 \text{ min}} / R_{1 \text{ min}}$ (2 values to be recorded during a measurement lasting 10 min)*

$DAR = R_{1 \text{ min}} / R_{30 \text{ sec}}$ (2 values to be recorded during a measurement lasting 1 min)

*For the calculation of the PI, the times of 1 and 10 minutes can be modified by the user, if required, for a particular application. See § 4.5.1.

They are especially useful for monitoring the ageing of the insulation of revolving machines or of very long cables.

On items of this type, the measurement is initially perturbed by spurious currents (capacitive charging current, dielectric absorption current) that gradually cancel out. To measure the leakage current representative of the insulation accurately, it is therefore necessary to make measurements of long duration.

The quality of the insulation is a function of the results found.

DAR	PI	Condition of the Insulation
< 1.25	< 1	Inadequate or even dangerous
	< 2	
< 1.6	< 4	Good
> 1.6	> 4	Excellent

4.5.1 Adjustments of the PI

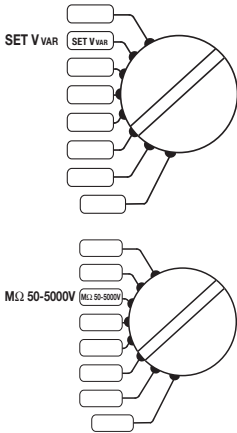
It is possible to modify the PI times to meet specific needs.

$$\text{Reminder: PI} = R_{10 \text{ min}} / R_{1 \text{ min}}$$

The first PI time is 1 min. It can be set to values from 30 sec to 30 min in 30 sec steps.

- Press and hold the **DISPLAY** button and turn the rotary switch to the **SET VVAR** position. Hold the **DISPLAY** button until **PI_1** appears in the display.
- You can change the first PI time (PI_1) using the **▲** and **▼** buttons.
- To save changes simply, turn the switch.
- The second PI time (PI_2) is 10 min. It can be set to values from PI_1 up to 59 min in 1 min steps.
- Press and hold the **DISPLAY** button and turn the rotary switch to the **SET VLOCK** position.
- You can modify the second PI time using the **▲** and **▼** buttons.
- To save changes simply, turn the switch.

4.6 Adjustment of the Variable Test Voltage

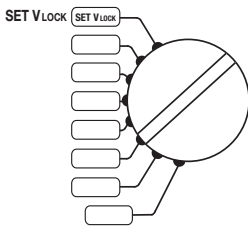


This function makes it possible to use test voltages other than the 4 preset values of 500, 1000, 2500 and 5000.

- Set the switch to **SET VVAR**.
- The test voltage flashes.
- Change the test voltage using the ▲ and ▼ buttons.
- Set the switch to **MΩ 50-5000V** to make the measurement.
- This value is retained in a non-volatile memory.

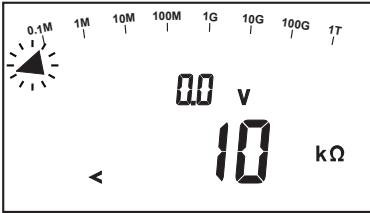
4.7 Adjustment of the Maximum Test Voltage

The user can set a maximum generated voltage to prevent any accidental over-voltage tests being conducted in error.

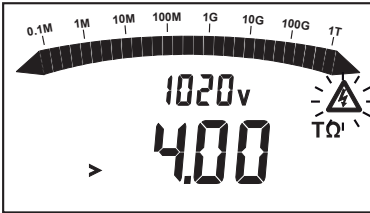


- Set the switch to **SET VLOCK**.
- The maximum test voltage flashes and can be adjusted using the ▲ and ▼ buttons.
- Turn the switch to an insulation measurement setting to make measurements.
- The maximum test voltage value is retained in a non-volatile memory. It will be displayed for a few seconds on selection of an affected range. (e.g. if the maximum voltage is 750V, it will be applied and displayed on all switch settings from 1000V up).

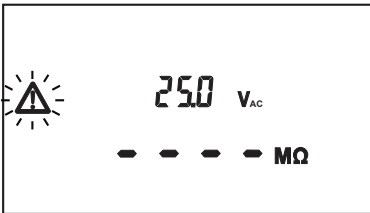
4.8 Error Messages



- The insulation resistance is too low.
- Check your connections. The + and - terminal of the instrument may be short-circuited.



- The insulation resistance is outside the measurement range.
- Check your connections. One of the terminals of the instrument may be disconnected or the value measured is $> 4T\Omega$.



- The voltage present on the terminals is greater than 25V_{AC} or 35V_{peak}.
- The instrument alerts you but does not prevent making the measurement.



- The voltage present on the terminals is too high for a measurement to be made:
 $\text{peak } V > 0.4 U_n$
 The test voltage, U_n , is indicated by the setting of the switch.
- Eliminate the voltage and restart the measurement.




- Indicates that the protective fuse of the **G** terminal is defective.
- Replace the fuse as indicated in § 5.2.

MAINTENANCE

Use only factory specified replacement parts. AEMC® will not be held responsible for any accident, incident, or malfunction following a repair done other than by its service center or by an approved repair center.

5.1 Recharging the Battery

If the  symbol displays, the battery needs to be recharged.

Connect the instrument to the 115VAC power cord via the connector (charging starts automatically).

- **bAt** on the small display and **chrG** on the main display signifies fast charging in progress.
- **bAt** on the small display and **chrG** flashing on the main display signifies slow charging.
- **bAt** on the small display and **FULL** on the main display signifies that charging is complete.

If the instrument is started up and the battery voltage is >8V, then the normal use of the device is permitted.




NOTE: The battery should only be changed by an authorized repair facility recognized by AEMC® Instruments.

5.2 Fuse Replacement

If **FUSE -G-** flashes on the display, the fuse must be replaced, taking all the necessary precautions when opening up the instrument.



Make sure that none of the terminals are connected and that the selector switch is set to OFF.

- The fuse is located on the left side of the faceplate, indicated by the  symbol.
- Using a coin or a flathead screwdriver, unscrew the fuse holder and remove the fuse.
- Only replace with the type of fuse specified on the label inside the unit's cover: 0.1A - Fast Acting - 380V, 5x20mm, 10kA

NOTE: If after changing the fuse the display still indicates **FUSE -G-**, the instrument must be returned to the factory for servicing.

5.3 Cleaning



Disconnect the instrument from any source of electricity.

Use a soft cloth lightly dampened with soapy water. Rinse with a damp cloth and then dry with a dry cloth.

Do not use alcohol, solvents or hydrocarbons.

5.4 Storage

If the instrument is not used for an extended period of time, it is recommended to charge the instrument every two or three months.

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
200 Foxborough Boulevard
Foxborough, MA 02035 USA
Phone: (800) 343-1391
(508) 698-2115
Fax: (508) 698-2118
E-mail: techsupport@aemc.com
www.aemc.com

NOTE: Do not ship instruments to our Foxborough, MA address.

Limited Warranty

The Megohmmeter Model 6505 is warranted to the owner for a period of one year 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.

For full and detailed warranty coverage, please read the Warranty Coverage Information, which is attached to the Warranty Registration Card (if enclosed) or is available at www.aemc.com. Please keep the Warranty Coverage Information with your records.

What AEMC® Instruments will do:

If a malfunction occurs within the one-year 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 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.

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

Notes:



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Hi-Potential Technologies

<http://www.hi-potential.com> | [http://hi-potential.com.au/](http://hi-potential.com.au)
sales@hi-potential.com

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15 Faraday Drive • Dover, NH 03820 USA • Phone: (603) 749-6434 • Fax: (603) 742-2346
www.aemc.com