

# Megohmmeter Model 6536



**MEGHOHMMETERS**

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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](http://www.aemc.com/calibration).

**Serial #:** \_\_\_\_\_

**Catalog #:** 2155.56

**Model #:** 6536

Please fill in the appropriate date as indicated:

Date Received: \_\_\_\_\_

Date Calibration Due: \_\_\_\_\_



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









# 1. INTRODUCTION

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Thank you for purchasing an AEMC® Instruments **Megohmmeter Model 6536**.

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
	<b>CAUTION - Risk of Danger!</b> Indicates a <b>WARNING</b> . Whenever this symbol is present, the operator must refer to the user manual before operation
	Indicates a risk of electric shock. The voltage at the parts marked with this symbol may be dangerous
	Indicates Important information to acknowledge
	Ground/Earth
	Battery
	The voltage on the terminals must not exceed 700 V
	Remote test probe
	This product complies with the Low Voltage & Electromagnetic Compatibility European directives (73/23/CEE & 89/336/CEE)
	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 product has been declared recyclable
 	Chauvin Arnoux® and AEMC® Instruments have adopted an Eco-Design approach in order to design this instrument. Analysis of the complete life-cycle 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 2002/96/EC

## Definition of Measurement Categories (CAT)

- CAT IV:** Corresponds to measurements performed at the primary electrical supply ( $< 1000\text{ V}$ ).  
*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.*

## 1.1 PRECAUTIONS FOR USE

This instrument is compliant with safety standard IEC 61010-2-030, and the leads are compliant with IEC 61010-031, for voltages up to 600 V in CAT IV or 1000 V in CAT III.

Failure to observe the following safety instructions may result in electric shock, fire, explosion, and damage to the instrument and installation.

- Carefully read and understand all precautions for use.
- Be aware of all electrical hazards when using this instrument.
- Using this instrument other than as specified may compromise its user protection features.
- The safety of any system in which this instrument is incorporated is the responsibility of the integrator of the system.
- This instrument can be used on CAT IV installations, for voltages not exceeding 600 VRMS with respect to ground or 700 VRMS maximum between terminals.
- Do not use the instrument on networks whose voltage or category exceeds those specified in this manual.
- Observe all environmental conditions of use (see § 4).
- Except for voltage measurements, take no measurements on electrically “live” systems.
- Do not use the instrument if it appears damaged, incomplete, or poorly closed.
- Before each use, check the condition of the insulation on the leads, housing, and accessories. Any part on which the insulation is deteriorated (even partially) must be set aside for repair or scrapping.
- Using the instrument without its battery compartment cover may result in electric shock to the user.
- Before using your instrument, ensure it is completely dry.
- Use only the leads and accessories supplied. The use of leads (or other accessories) of a lower voltage rating or category limits the use of the instrument/leads (or accessories) combination to the lowest category and service voltage.
- When handling the leads, test probes, and alligator clips, keep your fingers behind the physical guards.
- Before removing the battery compartment cover, ensure all measurement leads and accessories are disconnected. Replace all batteries at once. Use alkaline batteries.
- Use personal protection equipment where appropriate.
- All troubleshooting and metrological checks must be done by competent, accredited personnel.



1.2 RECEIVING YOUR SHIPMENT

Upon receiving your megohmmeter product package, ensure 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, providing a detailed description. Save the damaged packing container to substantiate your claim.

1.3 ORDERING INFORMATION:

Megohmmeter Model 6536 .....	Cat. #2155.56
Megohmmeter Model 6536 ESD Floor Kit .....	Cat. #2155.57

Shipping Contents:



Megohmmeter Model 6536



(1) Soft Carrying Pouch - Cat. #2119.02  
7.75 x 9.25 x 2.75 in



Two color-coded (red/black) 1.5 m test leads,  
two alligator clips, two grip probes and  
one test probe (black)



ESD Floor Kit  
(only with Cat. #2155.57)

### 1.3.1 Accessories

Megohmmeter Test Probe (600 V CAT IV) .....	<b>Cat. #2155.75</b>
Case - Field Case (Waterproof - Replacement for ESD Floor Kit).....	<b>Cat. #2155.77</b>
Continuity Probe.....	<b>Cat. #2138.54</b>
Probe – red test probe (1000 V Cat IV, 15 A, UL).....	<b>Cat. #5000.31</b>

### 1.3.2 Replacement Parts

Carrying Pouch for Cable Tester, Megohmmeters, Multimeters, etc. ....	<b>Cat. #2119.02</b>
Probe - Set of 2, Color-coded (Red/Black) Grip Probes.....	<b>Cat. #2152.26</b>
Probe – Black test probe (1000 V Cat IV, 15 A, UL) .....	<b>Cat. #5000.30</b>
Lead - Set of 2, 5 ft silicone color-coded (red/black) with 4 mm straight/right banana plugs (Rated 1000 V, CAT IV, UL) .....	<b>Cat. #5000.94</b>
Probe - Black test probe (Rated 1000 V CAT IV, 15 A, UL V2) ; ....	<b>Cat. #5000.97</b>
Clip - Safety Alligator - Black (1000 V CAT IV, 15 A, UL V2) .....	<b>Cat. #5000.99</b>
Clip - Safety Alligator - Red (1000 V CAT IV, 15 A, UL V2) .....	<b>Cat. #5100.00</b>
Weights - Set of 2, 5 lbs each with conductive rubber bottom pad (RoHS) .....	<b>Cat. #2155.76</b>
Adapter - 4 mm non-insulated for safety leads (Replacement for ESD Floor Kit).....	<b>Cat. #1017.45</b>

#### **Order Accessories and Replacement Parts Directly Online**

Check our Storefront at [www.aemc.com/store](http://www.aemc.com/store) for availability

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## 2. PRODUCT FEATURES

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### 2.1 DESCRIPTION

The Megohmmeter Model 6536 is a portable measuring instruments with digital displays, and is powered by batteries. The instrument measures insulation with test voltages from (10 to 100) V in one-volt steps. Other features include:

- Continuity measurement
- Resistance measurement
- Programmable alarms

The Model 6536 is also available as a floor resistance testing kit (see § 3.2.5) for testing both point-to-ground and point-to-point electrostatic discharge (ESD). In addition to the instrument, the kit contains (2) 5 lb (2.3 kg) floor weights (also referred to as NFPA probes) that are in compliance with EOS/ESD 11.11 specifications. Each floor weight is coated with insulating paint and a conductive rubber base. The instrument, floor weights, and test leads are packaged in a rugged field case. The kit provides all the necessary elements for compliance with the ANSI/ESD STM97.2-2006 standard for testing ESD flooring.

## 2.2 FRONT OF INSTRUMENT

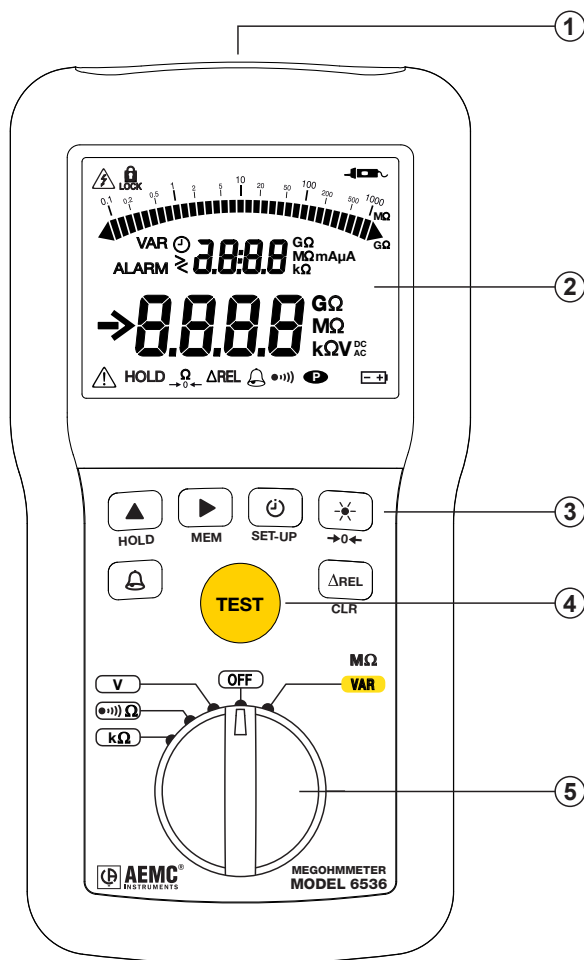
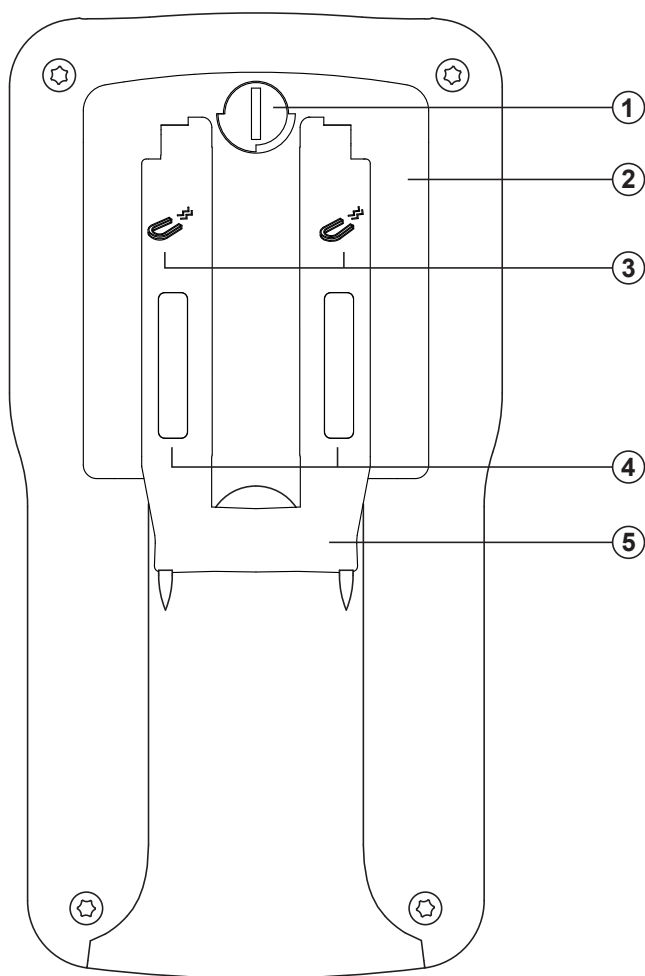


Figure 1

1. Input terminals
2. Blue backlit LCD
3. Six function buttons (see § 2.5 )
4. **TEST** button to start insulation measurements (see § 3.2.2.1)
5. Five-position rotary switch to choose the function or to turn the instrument OFF

## 2.3 BACK OF INSTRUMENT



*Figure 2*

1. Captive quarter-turn screw
2. Battery compartment cover
3. Mounting magnets, molded into instrument case
4. Non-skid pads
5. Stand

# 2.4 TERMINALS

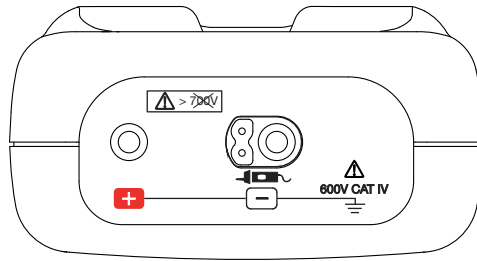


Figure 3

The instrument has one positive ( + ) terminal and one negative ( - ) terminal. The negative terminal also supports the remote probe accessory (see § 3.2.2.3).

# 2.5 FUNCTION BUTTONS

Several keys have two functions. One is marked on the key, and is enabled via a short press. The second function is marked under the key, and is enabled by a long (>2 seconds) press.

BUTTON	DESCRIPTION
	Selects the  and  functions (§ 3.2.2).
	Toggles backlighting ON and OFF (§ 3.1.5).
<b>HOLD</b>	Freezes/unfreezes the displayed measurement on the LCD (§ 3.1.4).
<b>SET-UP</b>	Accesses the instrument's setup parameters and information (§ 3.1.1).
<b>→0←</b>	Applies lead compensation in continuity testing (§ 3.2.3.1).
	Activates/deactivates alarms (§ 3.1.2).
	The  and  keys allow you to: <ul style="list-style-type: none"><li>■ Modify the display and program the durations of insulation measurements (§ 3.2.2.2).</li><li>■ Choose the continuity test current (§ 3.2.3).</li><li>■ Program the alarm thresholds (§ 3.1.2).</li></ul>
<b>ΔRel</b>	Displays the difference between the present measurement and a stored reference measurement (§ 3.1.3).

# 2.6 LCD DISPLAY

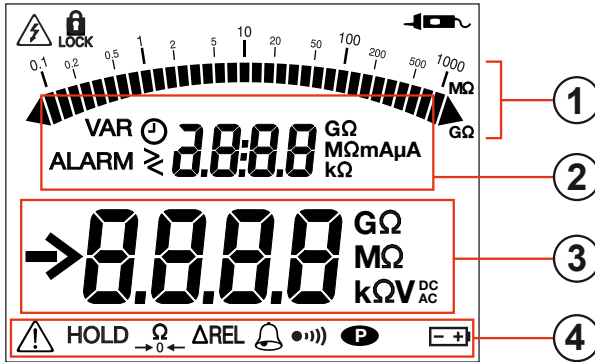


Figure 4

1. Logarithmic bar graph displays insulation measurements
2. Secondary display area
3. Main display area
4. Icons/indicators

When the measured value is below the minimum, the instrument displays **----**.

When measuring voltage, if the reading falls outside the range defined by the positive and negative limits, the instrument displays **OL** or **- OL**.

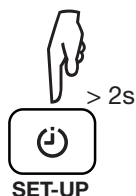
## 3. OPERATION



**NOTE:** Except when measuring voltage, all measurements must be made on powered-off systems. Therefore check to ensure there is no voltage on the system under test before making a non-voltage measurement. When the rotary switch is set to the voltage or an insulation testing position, the instrument measures and displays any voltage present at the input terminals prior to the user pressing the test button.

### 3.1 SETTING UP THE INSTRUMENT

#### 3.1.1 Configuration Settings



A >2 second press of the **SET-UP** button enables you to change configuration settings on the instrument. You can then use the ▲ and ► buttons to scroll through and modify parameters.

In Set-Up mode, the ▲ button performs the following functions:

1 <sup>st</sup> press on ▲		<p>The alarm buzzer is active. To deactivate it:</p> <ol style="list-style-type: none"><li>1. Press ►. <b>On</b> will blink to indicate it is selected.</li><li>2. Press ▲ to change the setting to <b>OFF</b>.</li><li>3. Press ► to validate the change.</li></ol> <p>The ●))) symbol disappears from the display when you exit Set-Up.</p> <p>Note that this setting reverts to <b>On</b> when you turn OFF the instrument.</p>
2 <sup>nd</sup> press on ▲		<p>Automatic switching to standby mode is activated. To deactivate it:</p> <ol style="list-style-type: none"><li>1. Press ► to select <b>OFF</b> (the setting blinks).</li><li>2. Press ▲ to change the setting to <b>On</b>.</li><li>3. Press ► to validate the change.</li></ol> <p>The <b>P</b> symbol appears on the display when you exit Set-Up.</p> <p>Note that this setting reverts to <b>OFF</b> when you turn OFF the instrument.</p>





3 <sup>rd</sup> press on ▲	6536	Displays the instrument model number.
4 <sup>th</sup> press on ▲	5oF u 1.20	Displays the instrument firmware version.
5 <sup>th</sup> press on ▲	Hrd u 1.00	Displays the instrument hardware version.
6 <sup>th</sup> press on ▲		Return to the first press.

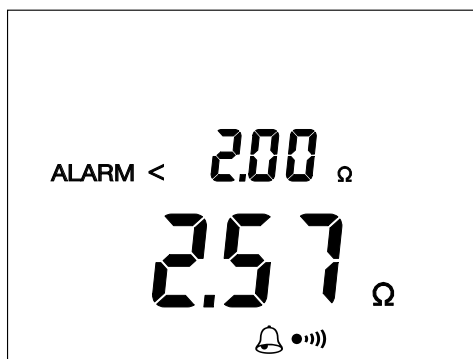
### 3.1.2 Alarms


The instrument includes an alarm function that sounds an audible buzzer when a defined alarm condition is measured.

#### 3.1.2.1 Activating/Deactivating the Alarm Function





The alarm function is available in insulation, resistance, and continuity measurement modes. Pressing the  button activates the alarm. The  symbol appears on the LCD, along with the threshold value.










To turn OFF the alarm buzzer while it is sounding, press the **HOLD** button. To deactivate an active alarm function, press the  button.

### 3.1.2.2 Setting an Alarm Threshold

While  is displayed indicating the alarm function is active, you can change the alarm threshold by pressing the  button (except during insulation measurements). For each testing mode, there are three pre-defined threshold values:

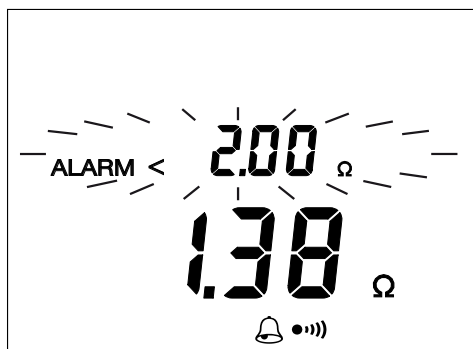
- Continuity :  $<2\ \Omega$ ,  $<1\ \Omega$  and  $<0.5\ \Omega$
- Resistance:  $>50\ \text{k}\Omega$ ,  $>100\ \text{k}\Omega$  and  $>200\ \text{k}\Omega$
- Insulation:  $<10\ \text{k}\Omega$ ,  $<50\ \text{k}\Omega$  and  $<100\ \text{k}\Omega$

In each measurement mode, the third threshold can be replaced by a user-defined value. To do this:

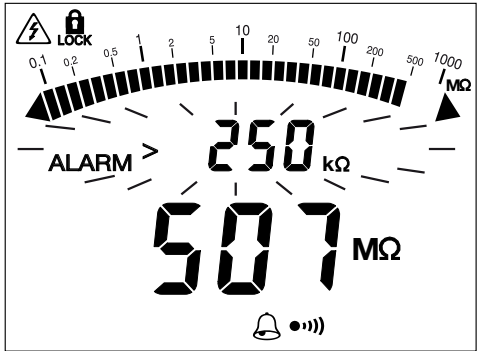
1. Press the  button while the threshold value is displayed.
2. The  $>$  symbol starts blinking; you can change it to  $<$  by pressing the  button. This symbol indicates the direction of the alarm threshold:  $<$  for a low threshold and  $>$  for a high threshold.
3. To change the threshold setting, press the  button to navigate to the first digit, and then use the  button to change its value.
4. Use the  and  buttons to select and change the other digits in the threshold value, as well as the units of measurement.
5. When finished setting the threshold, press the  button to validate the setting.

### 3.1.2.3 Viewing Alarms

When the measurement is below a low alarm threshold or above a high alarm threshold, the instrument emits a continuous audible signal and the LCD indicates the threshold crossed:



When checking continuity, this enables you to determine whether or not the continuity measurement is less than  $2\ \Omega$  simply by listening, without looking at the display. You can similarly check insulation quality.

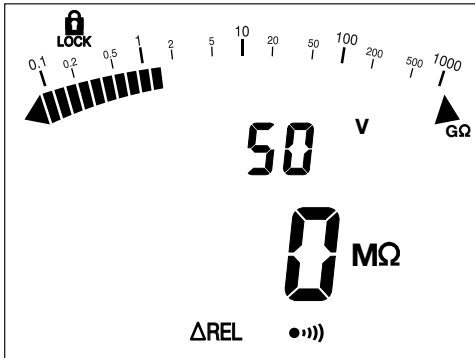


### 3.1.3 $\Delta$ REL Function



For an insulation or resistance measurement, you can configure the instrument to subtract a reference value from the measured value and display the difference.

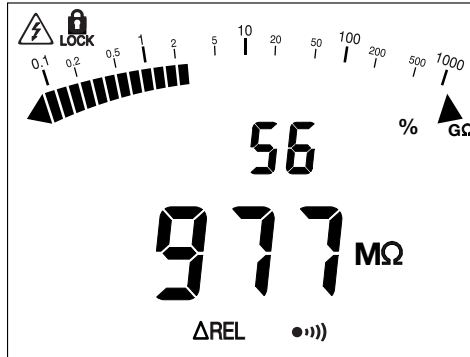
To activate this function, press the  $\Delta$ REL button during an active measurement. This measurement becomes the reference ( $R_{ref}$ ) and will be stored and subtracted from subsequent measurement values ( $R_{meas}$ ). The  $\Delta$ REL symbol appears on the LCD while this function is activated.



If the measured value is less than the stored value, the display becomes negative.

You can display the difference as a percentage of the reference

( $\frac{R_{meas} - R_{ref}}{R_{ref}} \times 100$ ) by pressing the ► button until the % sign appears:



**NOTE:** For insulation measurements, only the digital display is modified by  $\Delta REL$ . The bar graph continues to display the true measured value.

To deactivate the  $\Delta REL$  function, press the  $\Delta REL$  button during an active measurement, or turn the rotary switch to another setting.

### 3.1.4 HOLD Function



**HOLD**

Pressing the **HOLD** button freezes the display of the measurement. This can be done in all functions except during a timed measurement (⌚).

To unfreeze the display, press the **HOLD** button again.

### 3.1.5 Backlighting



→0←



Pressing the ☀ button turns ON backlighting for the LCD.

To switch it OFF, press the ☀ button again. Otherwise, backlighting goes OFF automatically at the end of one minute.

### 3.1.6 Standby Mode

After 5 minutes of operation with no user activity, the instrument automatically switches to standby mode. To restore normal operation, simply press any button. The instrument returns to the state it was in prior to entering standby mode, with no loss of information (value of the last measurement, compensation of the leads,  $\Delta\text{REL}$ , timed mode, alarm, etc.).

Automatic switching to standby mode is disabled during:

- insulation measurements in  mode and in  mode.
- continuity measurements, for as long as measurements are made.

Automatic switching to standby is disabled via the **SET-UP** button (see § 3.1.1).

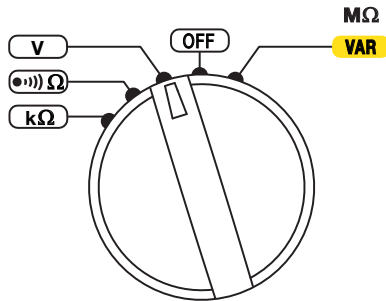
## 3.2 TAKING MEASUREMENTS

### 3.2.1 Voltage Measurement

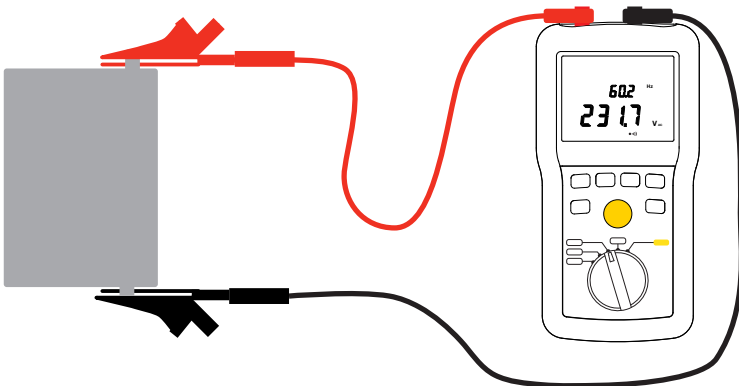


**NOTE:** To ensure proper and accurate operation of the instrument, we recommend measuring a known voltage (such as an electrical outlet) before measuring unknown voltages.

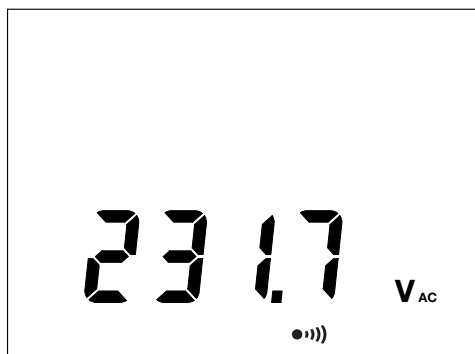
1. Set the switch to **V** or **MΩ VAR**.




2. Using the leads, connect the system to be tested to the instrument's terminals.



The instrument displays the voltage on the terminals. It detects whether the voltage is AC or DC.




In the **MΩ VAR** setting, the  symbol indicates that the voltage is too high (>25 V) and that insulation measurements are prohibited.

If the voltage is >15 V, continuity and resistance measurements are prohibited.

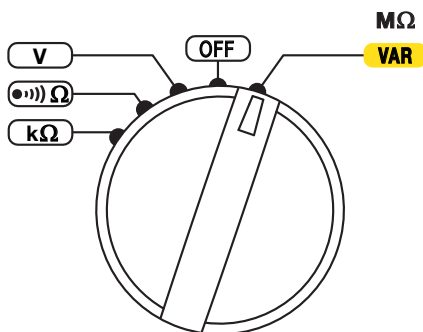
### 3.2.2 Insulation Measurement



**NOTE:** Insulation measurement results can be affected by the impedances of additional circuits connected in parallel or by transient currents.

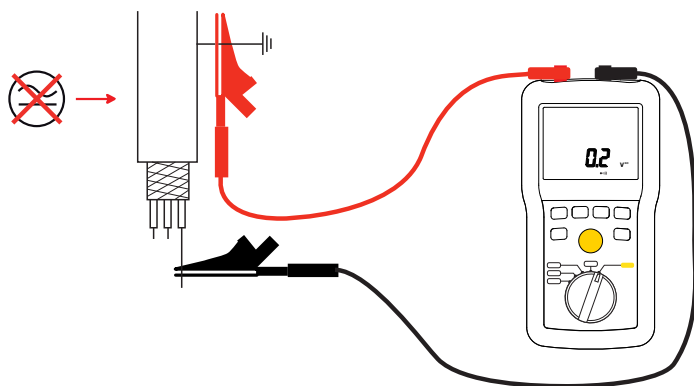
Do not start any measurement while the symbol  is displayed.

1. Set the rotary switch to the **MΩ VAR** position.
2. The instrument displays the configured test voltage. To modify this setting,

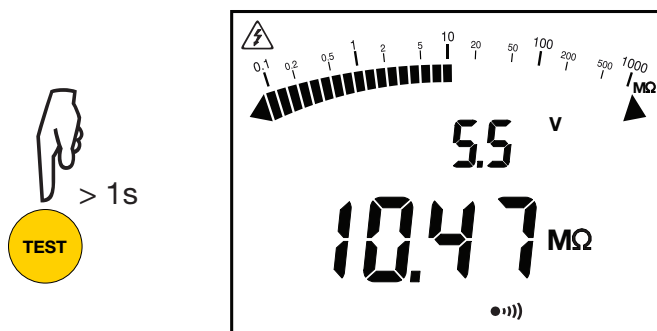


press the ► key to enter edit mode (The first digit of the voltage setting blinks). You can change this by pressing the ▲ key. Then use the ► and ▲ keys to navigate to and change the remaining digits. Allowable test voltages are 10 V through 100 V. When finished, press ► to validate the change.

3. Use the leads to connect the system to be tested to the instrument's terminals. The system under test must be powered down and discharged. When testing insulation, the typical connection is negative (black) lead to conductor and positive (red) lead to ground or the outer insulation of the device under test.




4. (Optional) Press the ► button to display the current or the elapsed time. (You can also do this during the measurement.)
5. Press the **TEST** button and hold it down until the displayed measurement is stable. Note that if the instrument detects a voltage greater than 25 V in the system under test, pressing the **TEST** button has no effect because the test will be prohibited. (An error screen will appear).
6. The resistance measurement is displayed on the LCD's main display area and on the bar graph. The secondary display area indicates the test voltage generated by the instrument.



The ⚡ symbol indicates that the instrument is generating a hazardous voltage (>70 V).

7. At the end of the measurement, release the **TEST** button. The instrument stops generating the test voltage and discharges the device being tested. The ⚡ symbol is displayed until the voltage on the system under test has fallen below 70 V.





**NOTE:** Do not disconnect the leads and do not start any measurement while the symbol  is displayed.

When you release the **TEST** button, the measurement results remain displayed until the next measurement, or the **HOLD** button is pressed, or the instrument is turned OFF.


### 3.2.2.1 TEST Button Operation



Pressing the **TEST** button starts an insulation measurement. In normal mode, the test voltage is generated for as long as the button is pressed. When the button is released, the measurement stops.

In  mode, press the test button once to start the measurement, then press it a second time to stop; there is no need to keep the button pressed. However, if you do not stop the measurement, it will stop automatically after 15 minutes.


In timed test mode () press the **TEST** button once to start the measurement. The test will stop automatically at the end of the defined test duration time.

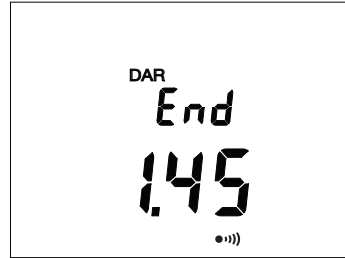
### 3.2.2.2 Timed Tests

The **TIMER**  button activates timed test mode. This button is active only for insulation measurements.

1 <sup>st</sup> press	 LOCK	This locks the <b>TEST</b> button. After you start the measurement, it continues to run without requiring you to keep the <b>TEST</b> button pressed. The test will run until you stop it, or when 15 minutes have passed.
2 <sup>nd</sup> press	 2:00	This activates timed test mode. You can set a test duration between 1 and 39:59 minutes. Use the ► and ▲ buttons to modify the value displayed.  When the time duration is displayed, press the ► button to enter edit mode. When the first digit blinks, you can change it using the ▲ button. Press ► to go to the next digit and ▲ to change it. Then press ► to validate.
3 <sup>th</sup> press		Exits timed test mode.



When  is activated, pressing the **TEST** button starts the test. The LCD displays the measurement, along with a “countdown” timer showing the time remaining in the test. The test automatically stops when the duration end time is reached and the result is displayed.



Successive presses on the ▲ button display intermediate values. These include:

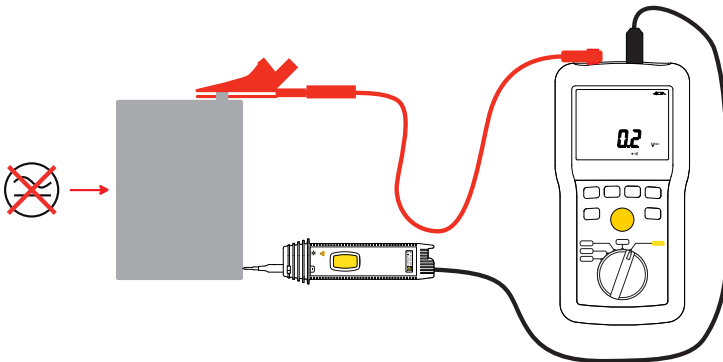
- programmed time
- voltage at the end of the measurement
- current at the end of the measurement




Press the **TEST** button to return to voltage measurement.

### 3.2.2.3 Remote Control Probe (Optional)

The optional remote control probe is used to trigger the measurement using the **TEST** button on the probe. To use this accessory, refer to its separate operating instructions.



When the probe is connected, the  symbol is displayed on the instrument's LCD.

### 3.2.3 Continuity Measurement

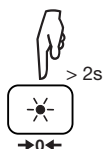
Continuity measurement measures a low resistance ( $<10\ \Omega$  or  $100\ \Omega$  depending on the current) at a high current (200 or 20) mA.

**NOTE:** A current of 20 mA reduces the power consumption of the instrument, increasing the instrument's battery life. However, the standard IEC 61557 requires 200 mA current for continuity testing.



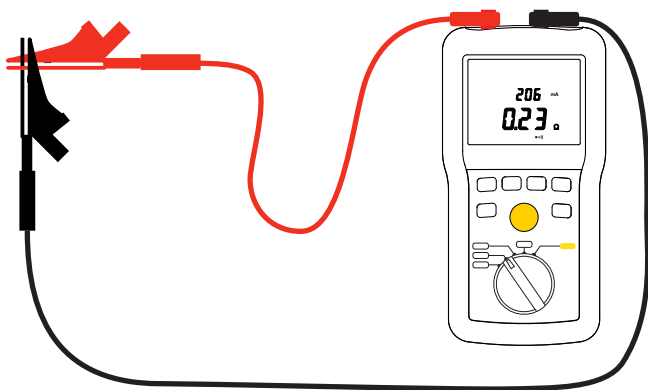
If an external voltage  $>15\text{ V}$  is detected in the system under test during the continuity measurement, the instrument is protected without a fuse. The continuity measurement is stopped and the instrument reports an error until the voltage disappears.

#### 3.2.3.1 Lead Compensation



Before checking continuity, you should compensate for the resistance of the measurement leads. This ensures that the resistance measurement excludes the resistance in the leads.

To do this, set the rotary switch to  $\bullet \parallel \Omega$ . Then short-circuit the measurement leads and press the  $\rightarrow 0 \leftarrow$  button for  $>2$  seconds.



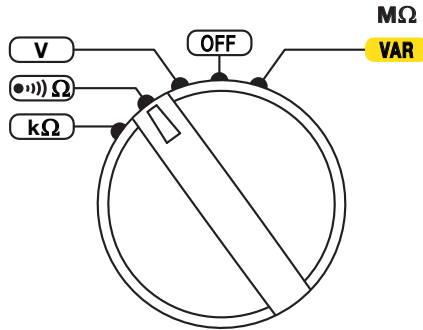
The display changes to zero and the  $\rightarrow 0 \leftarrow$  symbol is displayed. The resistance of the leads will be systematically subtracted from all continuity measurements. If the resistance of the leads is  $>10\ \Omega$ , there is no compensation. The compensation remains in memory until the instrument is turned OFF.

If the leads are changed with no change of compensation, the display may become negative. The instrument reports that the compensation must be redone by displaying a blinking  $\rightarrow 0 \leftarrow$  symbol.

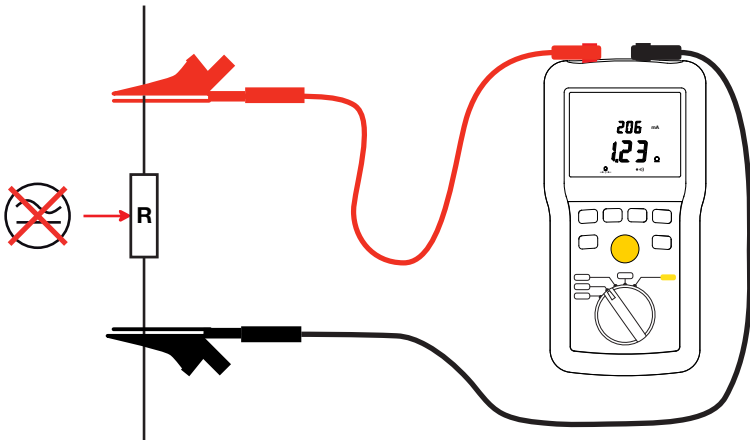
To remove the compensation of the leads, leave the leads open and press the  $\rightarrow 0 \leftarrow$  button for  $>2$  seconds. The LCD displays the resistance of the leads and the  $\rightarrow 0 \leftarrow$  symbol goes off.

### 3.2.3.2 Continuity Measuring

1. Set the rotary switch to  $\bullet \cdot \cdot \cdot \Omega$ .



2. Press the ► button to display the measurement current. The measurement current appears blinking on the LCD. You can change the current by pressing the ► button.
3. Use the leads to connect the instrument to the system to be tested. The system to be tested must be powered down.



The instrument displays the resistance and the current used in the test.

To obtain a continuity value per standard IEC 61557:

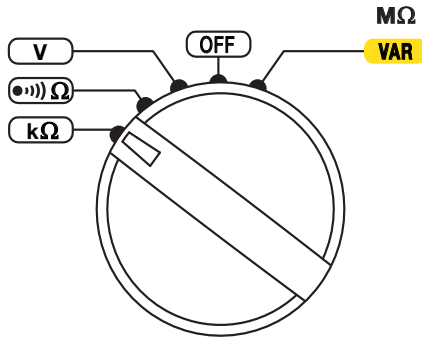
1. Take a measurement at 200 mA and note its value, R1.
2. Reverse the leads and note the value R2.
3. Calculate the mean:

$$R = \frac{R_1 + R_2}{2}$$

### 3.2.4 Resistance Measurement

Resistance measurements are made with a low current.

1. Set the rotary switch to **kΩ**.



2. Connect the system to be tested to the instrument. The device to be tested must be powered down.
3. The instrument displays the results.



### 3.2.5 Floor Resistance Testing

ANSI/ESD STM97.2-2006 is the standard test method for measuring the electrostatic voltage on a person in combination with floor materials and footwear as a system. ESD STM 97.2 can be used to characterize ESD protective floor materials including floor coverings (tiles, carpets, epoxies, and laminated structures), mats, paints/coatings, and floor finishes. Electrostatic voltage must be less than  $\pm 100$  V.

The Model 6536 can be purchased as part of a kit specifically designed for testing floor resistance in areas where electrostatic discharge is a concern, such as computer rooms, electronic assembly rooms, and hospitals. In addition to the instrument, the kit includes (2) 5 lb (2.3 kg) floor weights (also called NFPA probes) for consistent and repeatable contact with the surface under test. The floor weights are in compliance with EOS/ESD 11.11 specifications. Each floor weight is coated with insulating paint and rubber base.

The instrument, floor weights, and test leads are packaged in a rugged field case. The kit provides all the necessary elements for compliance with the ANSI/ESD STM97.2-2006 standard for testing ESD flooring. The kit can test the effectiveness of conductive carpets, mats, tables, chairs, and other items.



The following simplified procedure is an extrapolation from the ANSI/ESD STM97.2-2006 standard. You may also refer to other sources for alternate procedures.

### 3.2.5.1 Setup

- The floor sample should consist of a section covering (48 x 48) in (122 x 122) cm in area.
- When the sample is to be tested after installation, the test area dimensions should not exceed a section of floor (20 x 20) in (6.1 x 6.1) m.
- Whenever possible, condition the test area at least 24 hours at  $(73.4 \pm 1.8) ^\circ\text{F}$  ( $23 \pm 1$ )  $^\circ\text{C}$  and 50 %  $\pm$  5 % RH and test under the same conditions.

### 3.2.5.2 Test Procedure

1. For uninstalled panels: Place the dry specimen on a nonconductive surface and lightly wipe with a lint-free cloth to remove any foreign material prior to placing the weights. Place the weights 2 in (5.1 cm) from an edge of the sample and 36 in (91 cm) apart. Apply 100 V and take a reading 5 seconds after application of the voltage.
2. For installed panels: Place the weights 36 in (91 cm) apart and at least 36 in (91 cm) from any ground connections or grounded object resting on the floor sample. Apply 100 V and take a reading 5 seconds after application of the voltage.
3. Unless otherwise specified, make five measurements on each floor section with the weights at different locations for each measurement, and record the value to two significant figures (see Figure 5 below).

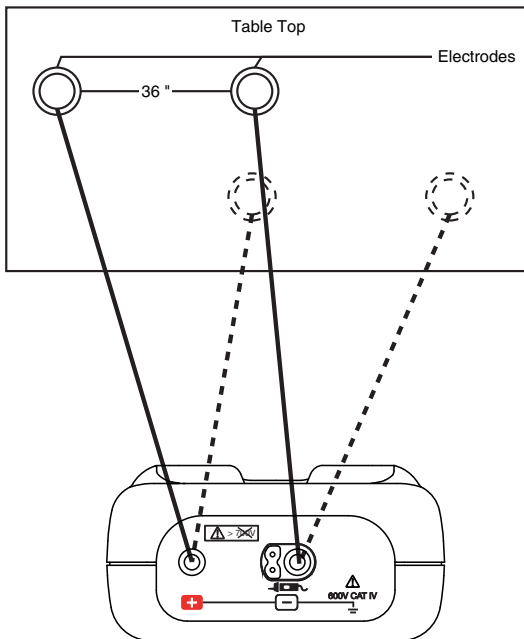


Figure 5

4. Repeat this procedure with the Model 6536 connected between one weight and a known electrical ground (Figure 6 below).

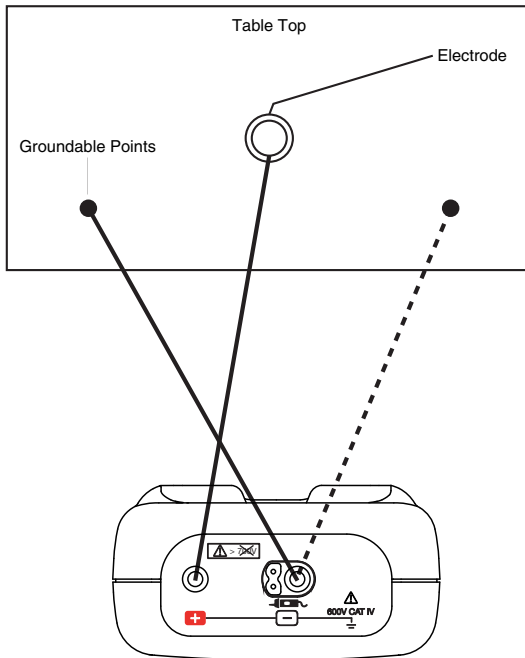


Figure 6

For an uninstalled floor sample (step 1) the ground should be part of the sample panel. For an installed floor sample (step 2) the ground should be a water pipe or known electrical ground. Swap the leads at the instrument for each measurement and record the average value obtained as the value for that measurement.

5. When finished, turn off the Model 6536 and return it to the case.

If the resistance changes with time during a measurement, the value observed after about 5 seconds should be considered the measured value.

### 3.2.5.3 Measurement Results

The following values may serve as a minimum resistivity level to provide an appropriate level of protection in manufacturing environments.

- Resistance from electrode to electrode (Figure 5): Measured value:  $\geq 1 \text{ M}\Omega$
- Resistance from test electrode to a groundable point (Figure 6): Measured value:  $\leq 10,000 \text{ M}\Omega$  (10  $\text{G}\Omega$ )

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## 4. SPECIFICATIONS

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### 4.1 GENERAL REFERENCE CONDITIONS

Quantity of Influence	Reference Values
Temperature	$(73.4 \pm 5.4) ^\circ\text{F}$ $(23 \pm 3) ^\circ\text{C}$
Relative humidity	(45 to 55) % RH
Frequency	DC and (45 to 65) Hz
Supply voltage	$8 \pm 0.2 \text{ V}$ battery life indication $(58 \pm 8) \%$
Electric field	0 V/m
Magnetic field	<40 A/m

- **The intrinsic uncertainty** is the error specified for the reference conditions.
- **The operating uncertainty** includes the intrinsic uncertainty plus variations of the quantities of influence (position, supply voltage, temperature, etc.) as defined in standard IEC 61557.



**NOTE:** In this section, uncertainties are typically expressed as % of the reading (R) plus number of display counts (ct).

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### 4.2 ELECTRICAL SPECIFICATIONS

#### 4.2.1 Voltage Measurement

Specific reference conditions: Peak factor = 1.414 in AC, sinusoidal signal.

Measurement Range	(0.3 to 399.9) V	(400 to 700) V
Resolution	0.1 V (AC and DC)	1 V (AC and DC)
Accuracy	$\pm (3 \% R + 2 \text{ ct})$	
Input impedance	400 k $\Omega$	
Frequency ranges	DC and 15.3 at 800 Hz	

#### 4.2.2 Insulation Measurement

Specific reference condition: Capacitance in parallel on resistance = null.

Test Voltage ( $V_T$ )	R
(10 to 100) V	$(V_T/5) \text{ k}\Omega$ to $(V_T/5) \text{ G}\Omega$



## Accuracy

Test Voltage (V <sub>T</sub> )	(10 to 100) V					
Measurement Range	2 - 999 kΩ	1.000 - 3.999 MΩ	4.00 - 39.99 MΩ	40.0 - 399.9 MΩ	400 - 3999 MΩ	4.00 - 20.00 GΩ
Resolution	1 kΩ		10 kΩ	100 kΩ	1 MΩ	10 MΩ
Accuracy	± (4 % + 20 cts)		± (3 % + 2 cts + (10 %/V <sub>T</sub> ) per 100 MΩ)			

With a test voltage  $\geq 50$  V and an insulation resistance  $\leq 2$  GΩ, the accuracy is  $\pm (3 \% + 2 \text{ cts})$ .

## Bar Graph

Measurement Range	0.1 MΩ to 50 GΩ*
Resolution	9 segments per decade
Accuracy	± (5 % R + 1 segment)

\*When the measurement range is exceeded, the whole bar graph is displayed.

## Test Voltage (V<sub>T</sub>)

Measurement Range	(0.0 to 100) V
Resolution	0.1 V
Accuracy	± (3 % R + 3 cts)

## Typical Discharge Time After Test

To go from V<sub>T</sub> to 25 V, the discharge time is  $< 2 \text{ s}/\mu\text{F}$ .

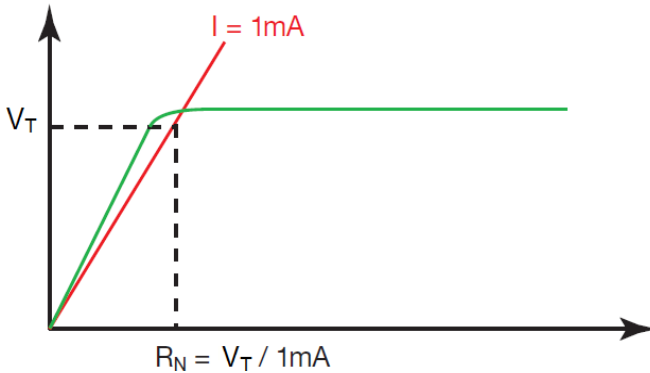
## Test Current

Maximum test current: 2 mA

Measurement Range	(0.01 to .99) μA	(40.0 to 399.9) μA	(0.400 to 2.000) mA
Resolution	10 nA	100 nA	1 μA
Accuracy	± (10 % R + 3 ct)		

### Typical test voltage vs load curve

The voltage as a function of the measured resistance is illustrated below:



The range of operation per IEC 61557 is from 100 k $\Omega$  to 2 G $\Omega$  (see § 3.3.4).

### 4.2.3 Continuity Measurement

Specific reference condition: Inductance in series with the resistance = zero.

Measurement Range (without compensation of the leads)	(0.00* to 10.00) $\Omega$	(0.0* to 100.0) $\Omega$
Resolution	10 m $\Omega$	100 m $\Omega$
Accuracy	$\pm (2 \% + 2 \text{ ct})$	
Test Current	200 mA	20 mA
Open Voltage	$\geq 6 \text{ V}$	

*\*In the case of incorrect compensation of the leads, the instrument allows display of negative values, down to -0.05  $\Omega$  at 200 A and -0.5  $\Omega$  at 20 mA.*

#### Test Current

200 mA range: 200 mA (0 mA + 20 mA)

20 mA range: 20 mA  $\pm$  5 mA

Measurement Range	(0 to 250) mA
Resolution	1 mA
Accuracy	$\pm (2 \% + 2 \text{ ct})$

**Compensation of the Leads:** (0 to 9.99)  $\Omega$

### 4.2.4 Resistance Measurement

Measurement Range	(0 to 3999) $\Omega$	(4.00 to 39.99) $k\Omega$	(40.0 to 399.9) $k\Omega$	(400 to 1000) $k\Omega$
Resolution	1 $\Omega$	10 $\Omega$	100 $\Omega$	1 $k\Omega$
Accuracy	$\pm (3 \% + 2 \text{ ct})$			
Open voltage	approximately 4.5 V			

### 4.2.5 Timer

Measurement Range	0:00 to 39:59
Resolution	1 s
Accuracy	$\pm 1 \%$ of duration

### 4.2.6 Floor Resistance Testing

The two floor weights that come with the floor testing kit comply with the ESD protection standards IEC 61340-2-3 and IEC 61340-4-1.

## 4.3 OPERATING ENVIRONMENT

### 4.3.1 Voltage Measurement

Influencing Parameter	Range of influence	Quantity influenced	Influence	
			Typical	Maximum
Temperature	(20 to + 55) °C (-4 to 131) °F	V, F		0.3 % R/10 °C + 1 ct (0.3 % R/18 °F + 1 ct)
Relative humidity	(20 to 80) % RH	V, F		1 % R + 2 ct
Frequency	(15.3 to 800) Hz	V	1 %	2 % R + 1 ct
Supply voltage	(6.6 to 9.6) V	V, F		0.1 % R + 2 ct
Common mode rejection in AC 50/60 Hz	(0 to 600) V <sub>AC</sub>	V	50 dB	40d B

### 4.3.2 Insulation Measurement

Influencing Parameter	Range of Influence	Quantity Influenced	Influence	
			Typical	Maximum
Temperature	(-20 to + 55) °C (-4 to 131) °F	$M\Omega$ $R \leq 3 G\Omega$ $3 G\Omega < R < 10 G\Omega$ $10 G\Omega \leq R$	1 % R/10 °C + 1 pt	2 % R/10 °C+2 ct 3 % R/10 °C+2 ct 4 % R/10 °C+2 ct
		$V_T$ : (10 to 100) V		0.5 % R/10 °C+1 ct
		Measurement current	1 % R/10 °C + 1 ct	2 % R/10 °C+2 ct
Relative humidity	(20 to 80) % RH	$M\Omega$	2 % R + 1 ct	3 % R + 2 ct
		$V_T$ : (50 to 100) V		1 % R + 2 ct
		Measurement current		1 % R + 2 ct
Supply voltage	(6.6 to 9.6) V	$M\Omega$		0.1 % R + 2 ct
50/60Hz AC voltage superposed on the test voltage ( $V_T$ )		<b><math>V_T = 10 V</math>:</b> $R \leq 0.1 G\Omega$ : 10 V from (0.1 to 0.3) $G\Omega$ : 0.2 V	5 % R + 2 ct	
		<b><math>V_T = 25 V</math>:</b> $R \leq 0.1 G\Omega$ : 10 V from (0.1 to 0.5) $G\Omega$ : 0.2 V		
		<b><math>V_T = 50 V</math>:</b> $R \leq 0.1 G\Omega$ : 4 V from (0.1 to 1) $G\Omega$ : 0.2 V		
		<b><math>V_T = 100 V</math>:</b> from 100 k $\Omega$ to 10 $M\Omega$ : 20 V from 10 $M\Omega$ to 1 $G\Omega$ : 0.3 V		
Capacitance in parallel on resistance to be measured	(0 to 5) $\mu F$ at 1 mA	$M\Omega$		1 % R + 1 ct
	(0 to 2) $\mu F$	<b><math>V_T = 10 V</math> and <math>25 V</math></b> from 10 k $\Omega$ to 1 $G\Omega$	2 % R + 1 ct	3 % R + 2 ct
		<b><math>V_T = 50 V</math> and <math>100 V</math></b> from 10 k $\Omega$ to 3 $G\Omega$	6 % R + 2 ct	10 % R + 2 ct
	(0 to 1) $\mu F$	<b><math>V_T = 50 V</math></b> $\leq 5 G\Omega$	6 % R + 2 ct	10 % R + 2 ct
Common mode rejection in AC 50/60 Hz	(0 to 600) Vac	V	50 dB	40 dB

### 4.3.3 Resistance and Continuity Measurement

Influencing Parameter	Range of Influence	Quantity Influenced	Influence	
			Typical	Maximum
Temperature	(-20 to + 55) °C (-4 to 131) °F	at 200 mA		2 % R/10 °C + 2 ct
		at 20 mA		2 % R/10 °C + 2 ct
		R		1 % R/10 °C + 2 ct
Relative humidity	(20 to 80) % RH	at 200 mA		4 % R + 2 ct
		at 20 mA		4 % R + 2 ct
		R		3 % R + 2 ct
Supply voltage	(6.6 to 9.6) V	at 200 mA at 20 mA R		0.1 % R + 2 ct
50/60Hz AC voltage superposed on the test voltage (V <sub>T</sub> )	0.5 V <sub>AC</sub>	at 200 mA		5 % R + 10 ct
	For R ≥ 10 Ω: 0.4 V <sub>AC</sub>	at 20 mA		
	Accepts no perturbations	R		
Common mode rejection in AC 50/60 Hz	(0 to 600) V <sub>AC</sub>	at 200 mA at 20 mA R	50 dB	40 dB

### 4.3.4 Intrinsic Uncertainty and Operating Uncertainty

These megohmmeters comply with standard IEC 61557, which requires that the operating uncertainty (called B) must be less than 30 %.

In insulation and continuity measurements:

$$B = \pm(|A| + 1.15 \sqrt{E_1^2 + E_2^2 + E_3^2})$$

where:

A = intrinsic uncertainty

E<sub>1</sub> = influence of the reference position ± 90 °

E<sub>2</sub> = influence of the supply voltage within the limits indicated by the manufacturer

E<sub>3</sub> = influence of the temperature between (0 and 35) °C (32 and 95) °F

## 4.4 POWER SUPPLY

The instrument is powered by (6) 1.5 V alkaline AA (LR6) batteries.

The voltage range ensuring correct operation is from (6.6 to 9.6) V.

Typical life between charges:

- Insulation: 6000 5-second measurements at 100 V for  $R = 100 \text{ k}\Omega$ , at the rate of one measurement per minute
- Continuity: 3000 5-second measurements, at the rate of one measurement per minute

## 4.5 ENVIRONMENTAL CONDITIONS

Indoor use

**Range of operation:** (-20 to +55) °C (-4 to 131°) F and (20 to 80) % RH

**Range of storage (without batteries):** (-30 to +80) °C (-22 to 176) °F and (10 to 90) % RH without condensation

**Altitude:** <2000 m (6562 ft)

**Degree of pollution:** 2

## 4.6 MECHANICAL SPECIFICATIONS

**Dimensions (L x W x H):** (211 x 108 x 60) mm (8.31 x 4.25 x 2.36) in

**Weight:** approximately 850 g (1.87 lb)

**Ingress protection:**

- IP 54 per IEC 60529, not in operation
- IK 04 per IEC 50102

**Drop test:** per IEC 61010-1

## 4.7 SAFETY STANDARDS

**Safety according to:** EN 61010

**Insulation Class:** 2

**Pollution Degree:** 2

**Overvoltage Category:** 600 V CAT IV

**Immunity according to:** EN 61326

**Emission according to:** EN 61326

*Specifications are subject to change without notice.*

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## 5. MAINTENANCE & TROUBLESHOOTING

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**NOTE:** Except for the batteries, the instrument contains no parts that can be replaced by personnel who have not been specially trained and accredited. Any unauthorized repair or replacement of a part by an “equivalent” may impair safety.

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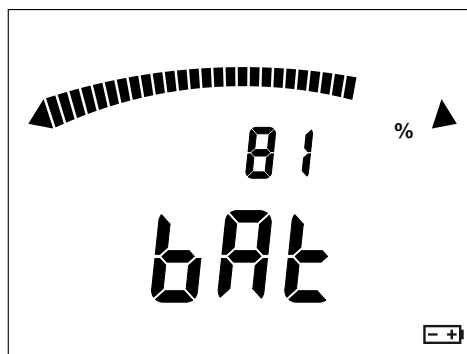
### 5.1 MAINTENANCE


#### 5.1.1 Cleaning

- Disconnect the unit completely and turn the rotary switch to OFF.
- Use a soft cloth, dampened with soapy water.
- Rinse with a damp cloth and dry rapidly with a dry cloth or forced air.
- Do not use alcohol, solvents, or hydrocarbons.
- Do not use the instrument again until it is completely dry.

#### 5.1.2 Replacing the Batteries

At start-up, the instrument displays the remaining battery life:

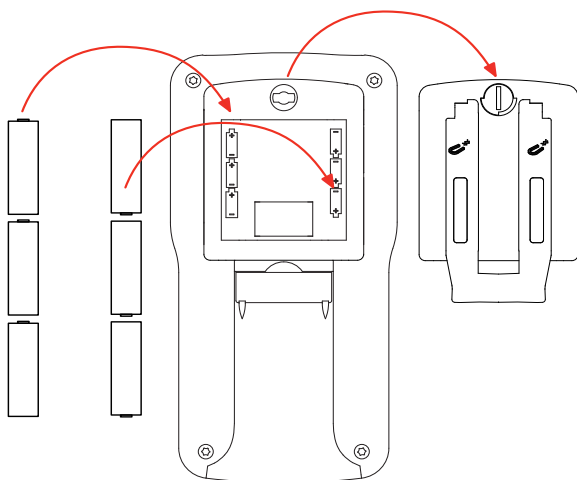


If the battery voltage is too low to ensure correct operation of the instrument, a “low battery” message appears on the LCD and the  symbol blinks:



This indicates the batteries must be replaced. All batteries must be replaced at the same time. To do this:

1. Disconnect any attached leads or accessories from the instrument and turn the rotary switch to OFF.
2. Use a tool or a coin to turn the quarter-turn screw of the battery compartment cover.
3. Remove the battery compartment cover.
4. Remove the batteries from the compartment.



**NOTE:** Do not treat spent batteries as ordinary household waste. Take them to the appropriate collection facility for recycling.

1. Place the new batteries in the compartment, ensuring that each battery's polarity is correct.
2. Put the battery compartment cover in place and screw in the quarter-turn screw.

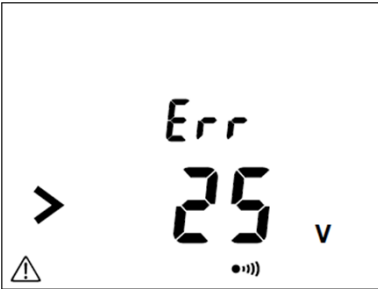


## 5.2 TROUBLESHOOTING

### 5.2.1 Errors

During instrument operation, errors may be displayed on the LCD. The causes of any errors must be corrected before the instrument can resume normal operation.

#### 5.2.1.1 Voltage present before an insulation measurement



Before taking an insulation measurement, the instrument measures voltage on the system under test. If it detects voltage in excess of 25 V and you attempt to take a measurement, the instrument displays the message shown to the left, and no measurement is taken.

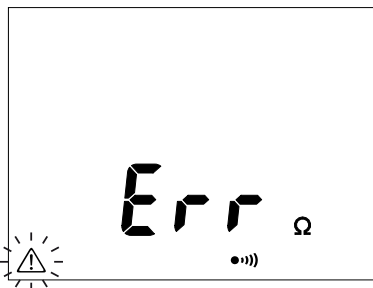
You must eliminate the voltage to resume taking the measurement.

#### 5.2.1.2 Range exceeded during an insulation measurement



If during an insulation measurement the value to be measured exceeds the measurement range (which depends on the test voltage), the instrument reports this condition. For example, the screen to the left is displayed when the range is exceeded while measuring in the 100 V range.

#### 5.2.1.3 Voltage present during a continuity or resistance measurement




If during a continuity or resistance measurement the instrument detects an external voltage in excess of 15 V (AC or DC), it interrupts the measurement and displays the screen shown to the left.

You must eliminate the voltage to resume the measurement.

## 5.2.2 Resetting the Instrument

You can reset your instrument at any time. To do this:

1. Press the ▲ and  buttons simultaneously.
2. Turn the rotary switch to any setting other than OFF.
3. The instrument reboots.

## 5.3 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](mailto: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](mailto: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.

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## 5.4 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](mailto:techsupport@aemc.com)  
[www.aemc.com](http://www.aemc.com)

## 5.5 LIMITED WARRANTY

The instrument 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 product registration is available on our website at [www.aemc.com/warranty.html](http://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](http://www.aemc.com/warranty.html)**

### 5.5.1 Warranty Repairs

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

First, send an email to [repair@aemc.com](mailto: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](mailto: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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**AEMC<sup>®</sup> Instruments**  
15 Faraday Drive • Dover, NH 03820 USA  
Phone: (603) 749-6434 • (800) 343-1391 • Fax: (603) 742-2346  
**[www.aemc.com](http://www.aemc.com)**

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