Megohmmeter Test Probe

User Manual

ENGLISH







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not the user of the documentation has been advised of the possibility of such damages.

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 #:
Model #:
Please fill in the appropriate date as indicated:
Date Received:
Date Calibration Due:



Chauvin Arnoux®, Inc. d.b.a AEMC® Instruments www.aemc.com Thank you for purchasing the **Megohmmeter Test Probe**. This accessory is designed for use with the Megohmmeter Model 652x/653x series; and with Installation Testers C.A 6116N, and C.A 6117.

For best results from your probe and for your safety:

- read these operating instructions carefully
- comply with the precautions for use

<u>^</u>	WARNING, risk of DANGER! Refer to these instructions whenever this danger symbol appears.
<u>A</u>	CAUTION! Risk of electric shock. The voltage at the parts marked with this symbol may be dangerous.
	Equipment protected by double insulation.
ᆂ	Ground/Earth.
+ 10	Battery.
i	Information or useful tip.
CE	Indicates conformance with European directives, in particular LVD and EMC.
<u>X</u>	Indicates that in the European Union this product must undergo selective disposal in compliance with Directive WEEE 2002/96/EC. This equipment must not be treated as household waste.

Definition of Measurement Categories (CAT)

- **CAT II** Measurement Category II corresponds to measurements taken on circuits directly connected to low-voltage installations.

 Example: power supply to domestic electrical appliances and portable tools.
- **CAT III** Measurement Category III corresponds to measurements on building installations.

 Example: distribution panel, circuit-breakers, machines or fixed industrial devices
- **CAT IV** Measurement Category IV corresponds to measurements taken at the source of low-voltage installations.

 Example: power feeders, counters and protection devices.

PRECAUTIONS FOR USE /!\



This accessory complies with safety standards IEC61010-1, and IEC61010-031 for voltages up to 600V in CAT IV.

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

- The operator and/or the responsible authority must carefully read and clearly understand all precautions to be taken in use. Sound knowledge and a keen awareness of electrical hazards are essential when using this accessory.
- If you use this accessory other than as specified, the protection it provides may be compromised, thereby endangering you.
- Do not use the accessory on networks on which the voltage or category exceeds those mentioned.
- Do not use the accessory if it seems to be damaged, incomplete, or poorly closed.
- Before each use, check the condition of the insulation on the leads and housing. Any item of which the insulation is deteriorated (even partially) must be set aside for repair or scrapping.
- Use personal protection equipment as appropriate.
- Keep your fingers behind the physical guard.
- All troubleshooting and metrological checks must be performed by competent and accredited personnel.

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1. INTRODUCTION

1.1 Receiving Your Shipment

Upon receiving your Megohmmeter Test Probe product package, ensure the contents are consistent with the packing list. Notify your distributor of any missing items.

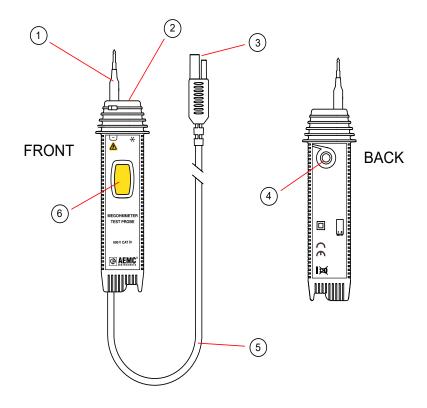
If the equipment appears to be damaged, file a claim immediately with the carrier and notify your distributor at once, providing a detailed description. Save the damaged packing container to substantiate your claim.

1.2 Ordering Information

Includes one 9V alkaline battery, user manual, and verification certificate.

Order Accessories and Replacement Parts Directly Online Check our Storefront at www.aemc.com for availability

1.3 Description



1	Detachable test tip Ø 2mm which can be stored on the back of the probe.
2	Light to illuminate the measurement point.
3	Special 3-pin plug.
4	Button on back side of probe to turn light ON/OFF.
5	Shielded cord.
6	Button to start a test.

2. OPERATION

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Do not use the probe on an electrically live system.

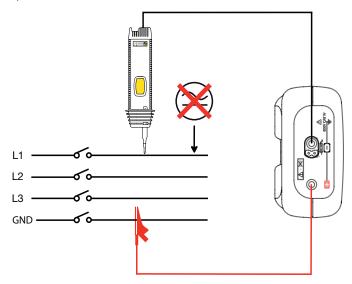
The test probe plugs into:

- **I**terminal of the megohmmeter
- $M\Omega$ terminal of the installation tester

You can hold the probe in one hand and the instrument in the other, and press the probe's yellow (TEST) button to take a measurement.

To use the remote probe:

- Connect the probe to the instrument via the appropriate terminal. Then
 connect the red safety lead supplied with the instrument to the + or
 COM terminal, depending on instrument type. The symbol IDD (for
 megohmmeters) or IDD (for installation testers) appears on the instrument
 LCD.
- Connect the red lead to the frame ground of the system under test. Then touch the test probe measurement tip to the other side of the system (see below).



In dark conditions, you can illuminate the measurement tip by pressing the button on the back side of the probe.

- 3. Press the probe's yellow button to start the measurement. Keep the button pressed until you obtain a stable reading.
- After the measurement is taken, release the yellow button. Then remove the probe from the system under test and disconnect the probe from the instrument.



For details about taking measurements with your instrument, refer to its user manual.

3. SPECIFICATIONS

3.1 Power Supply

The probe is powered by a 9V alkaline battery (type 6LF22). The nominal operating voltage is between 7 and 10V.

The battery is needed only to power the light; the probe is otherwise fully functional without the battery. Battery life is 100 hours of continuous operation.

3.2 Environmental

Indoor use

Operating range: 32 to 113°F (0 to 45°C) and 10 to 90% RH

Storage range (without battery): -40 to 158°F (-40 to 70°C) and 10 to 90% RH

Pollution Degree: 2

Altitude: <6562 ft (2000m)

3.3 Mechanical

Dimensions: (L x W x H): 6.1 x 1.85 x 1.93" (155 x 47 x 49mm)

Cord: 6.56 ft (2m)

Weight: approximately 7.76 oz (220g)

Ingress protection:

■ IP 53 according to IEC 60 529

■ IK 04 according to IEC 50102

Drop test: according to IEC 61010-1

3.4 Safety

Electrical safety according to IEC 61010-031 (Ed. 2 of 2002).

4. 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.

4.1 Cleaning



Disconnect all leads from the probe and turn it OFF.

Use a soft cloth, dampened with soapy water. Rinse with a damp cloth and dry quickly with a dry cloth or forced air. Do not use alcohol, solvents, or hydrocarbons.

4.2 Replacing the Battery

The battery must be replaced when the probe light is too dim to provide adequate illumination.

- 1. Disconnect all leads and probes from the instrument.
- 2. Using a screwdriver, remove the two fastening screws.
- 3. Replace the old battery with a new one (9V alkaline battery, type 6LF22).



Used batteries must not be treated as ordinary household waste. Recycle them appropriately.

- Position the new battery in the designated slot, taking care to ensure correct polarity
- 5. Close the case and ensure that it is closed completely and correctly.
- 6. Replace the two fastening screws.

4.3 Limited Warranty

The Megohmmeter Test Probe 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 probe has been tampered with or abused, or if the defect is related to service not performed by AEMC® Instruments.

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

Please print the online Warranty Coverage Information for your records.

What AEMC® Instruments will do:

If a malfunction occurs within the warranty period, you may return the probe 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.

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