# Hand-cranked Megohmmeter Model 1250N



The AEMC® Model 1250N is a compact, self-contained, hand-cranked True Megohmmeter®. This practical and dependable instrument is designed for a broad range of plant and field service applications, such as acceptance testing and preventive maintenance of wiring, cables, switchgear and motors. The easy hand-cranked operation provides a steady, DC voltage output across the entire range for consistently reliable readings. The Model 1250N has three test voltages for insulation resistance testing: 250V, 500V and 1000V. Test voltages are generated in full across the entire measurement range.

The Model 1250N incorporates a built-in, sealed alternator and constant DC voltage circuit to provide a very stable resistance reading. The

megohmmeter is ruggedly built, with a safety-yellow cast aluminum case, aluminum lid and polycarbonate front panel. The Model 1250N is designed for harsh, heavy-duty use. An O-ring seal between the front panel and case protects the unit against water and dust. The crank folds against the unit for storage.

This analog instrument has a unique auto-ranging feature which expands the scale ten times: when the pointer reaches near the end of scale, the auto-ranging feature activates, returning the pointer to the beginning of the scale with the x10 red LED indicator on.

Insulation resistance is indicated with a rugged taut-band meter movement on a logarithmic scale. The indicator scale is large and easy-to-read, and has direct-reading on all ranges. A green LED on the front panel illuminates when the proper crank speed is attained, indicating the presence of the selected output. The Model 1250N has four terminals including a guard terminal and an instrument ground terminal for user safety.

The Model 1250N is supplied with a carrying strap with lead pouch, a full complement of test leads, clips and test probe to perform any test.



## Features

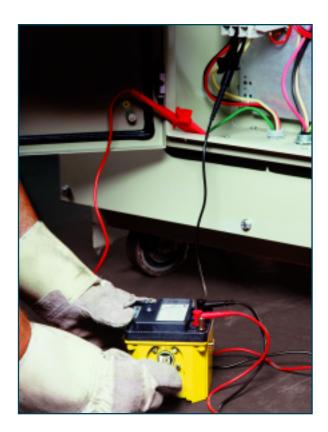
- True Megohmmeter®
- Test voltages of 250V, 500V and 1000V
- Insulation measurements to  $5000M\Omega$
- LED indicates constant voltage output and proper cranked speed
- Automatic discharge when measurement is finished
- Auto-Ranging dual scale operation for better sensitivity and easier readings
- Designed for harsh environments: marine, mining, heavy-duty field, industrial and military use
- Extra rugged cast aluminum case, O-ring sealed against rain, water and dust; aluminum lid
- Compact, self-contained package; folding crank
- Large direct-reading scale
- CE Mark

## **Applications**

- Acceptance testing and preventive maintenance
- Test motors, cables, switchgears and electrical wiring installations
- · Continuity checks
- Check domestic and industrial contracting

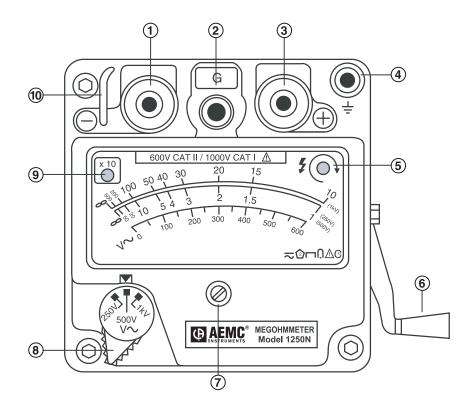
## **Specifications**

MODEL		1250N
ELECTRICAL		
INSULATION TESTS		
Test Voltage (Auto-Ranging)	250V 500V 1000V	1 to 11ΜΩ; 11 to 500ΜΩ 1 to 11ΜΩ; 11 to 500ΜΩ 10 to 110ΜΩ; 110 to 5000ΜΩ
Short Circuit Current		5mA (approx)
Accuracy		2% of Full Scale Length
Automatic Discharge		8s/µF
Charging Time	250V 500V 1000V	0.2s/μF 0.5s/μF 0.5s/μF
GENERAL		
Scale		Direct reading on $M\Omega$ and voltage scales; 3" (76mm), black on white
Test Voltage Indicator		Green LED indicates proper test voltage and crank speed
Auto-Range Indicator		Red LED indicates Auto-Range; multiply $M\Omega$ readings x 10
Power Source		Hand-cranked, heavy duty brushless alternator and solid state rectification and amplification for stable voltage; test voltage reached at 140rpm (approx)
Dielectric Test		2000V, 50/60Hz, between (-1), (+), and ground terminals
Meter Movement		Rugged taut band suspension
Dimensions		4.7 x 4.7 x 5.1" (120 x 120 x 130mm)
Weight		3.3 lbs (1.5kg)
Case		Cast aluminum alloy case and lid painted safety-yellow, with heavy duty gray polycarbonate front panel; O-ring seal between front panel and case; sealed against water and dust; folding crank
Terminals		Guard "+" Line (red); "-" earth (black); guard (blue), and ground; accept standard 4mm banana plugs or spade lugs
SAFETY		
Safety Rating		EN 61010-1, 600V, Cat. II; 1000V, Cat. I
CE Mark		Yes





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- 1. Line (-) terminal Black
- 2. Guard Terminal Blue
- 3. Earth (+) terminal Red
- 4. Instrument ground terminal for user safety
- 5. Green (1250N) LED indicates proper crank speed and output voltage
- 6. Fold-away handle
- 7. Mechanical zero adjustment screw
- 8. Range selector switch
- 9. Red LED illuminates when reading needs to be multiplied 10 to obtain the true value  $(M\Omega, k\Omega, \Omega \text{ ranges})$
- 10.Security finger rest isolates users hand from terminals while facilitating a firm grip during an operation





Detachable soft carrying case. The case attaches to the carrying strap.

#### **ORDERING INFORMATION**

**Megohmmeter Model 1250N** (Hand-cranked, 250V, 500V, 1000V) ..... **Cat. #1326.02** Includes carrying strap with lead pouch, three color-coded leads, ground lead, two alligator clips, test probe and user manual



CATALOG NO.

### **Contact Us**

#### United States & Canada:

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118 www.aemc.com

Customer Support – for placing an order, obtaining price & delivery: customerservice@aemc.com

Sales Department – for general sales information: sales@aemc.com

**Repair and Calibration Service – for information on repair & calibration, obtaining a user manual:** repair@aemc.com

**Technical and Product Application Support – for technical and application support:** techinfo@aemc.com

Webmaster – for information regarding www.aemc.com: webmaster@aemc.com

#### South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> Instruments 15 Faraday Drive Dover, NH 03820 USA (978) 526-7667 • Fax (978) 526-7605 export@aemc.com www.aemc.com

#### All other countries:

Chauvin Arnoux SCA 190, rue Championnet 75876 Paris Cedex 18, France 33 1 44 85 45 28 • Fax 33 1 46 27 73 89 info@chauvin-arnoux.com www.chauvin-arnoux.com



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