

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 5000MΩ
- 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
- Double Insulation
- CE Mark

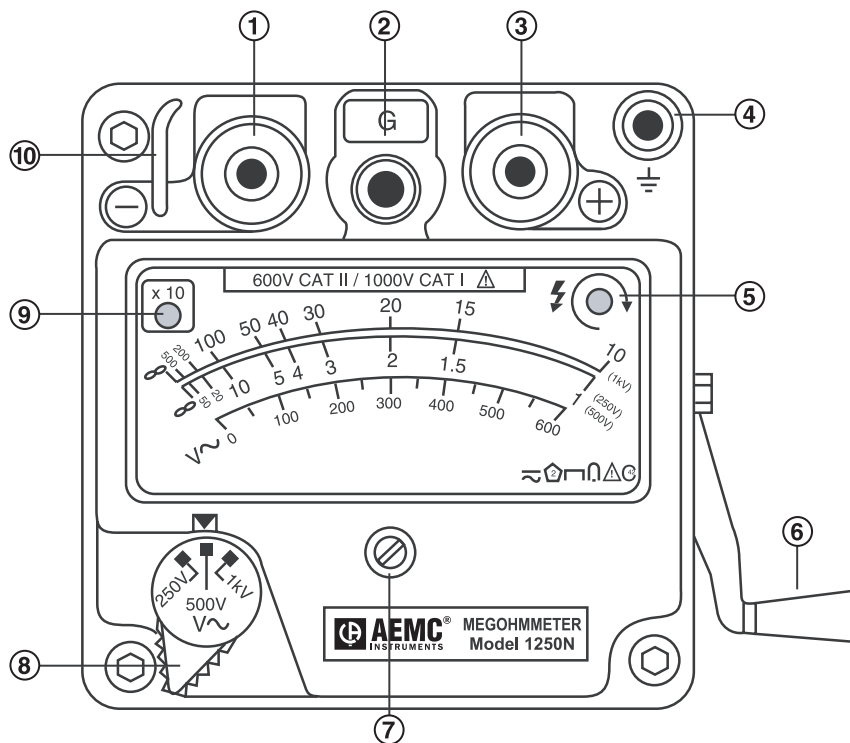
Applications

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

Specifications

MODEL		1250N
ELECTRICAL		
Power Source		Hand-cranked, heavy duty brushless alternator and solid state rectification and amplification for stable voltage; test voltage reached at 140rpm (approx)
INSULATION TESTS		
Test Voltage (Auto-Ranging)	250V	1 to 11MΩ; 11 to 500MΩ
	500V	1 to 11MΩ; 11 to 500MΩ
	1000V	10 to 110MΩ; 110 to 5000MΩ
Short Circuit Current		5mA (approx)
Accuracy		2% of Full Scale Length
Automatic Discharge		8s/μF
Charging Time	250V	0.2s/μF
	500V	0.5s/μF
	1000V	0.5s/μF
MECHANICAL		
Scale		Direct reading on MΩ 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 MΩ readings x 10
Dielectric Test		2000V, 50/60Hz, between (-), (+), 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
Double Insulation 		Yes
CE Mark		Yes





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 (MΩ, kΩ, Ω ranges)
10. Security finger rest isolates users hand from terminals while facilitating a firm grip during an operation



Test leads, clips and test probe are included



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

ORDERING INFORMATION

CATALOG NO.

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

Contact Us

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