

Hand-cranked Megohmmeter Model 1250N

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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

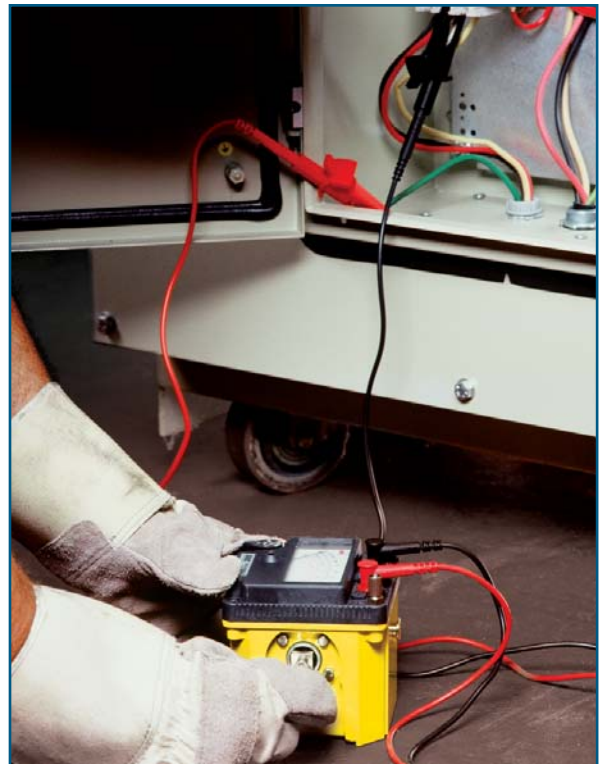
- True Megohmmeter®
- Test voltages of 250V, 500V and 1000V
- Insulation measurements to 5000MΩ
- LED indicates constant voltage output and proper cranked speed
- Automatic discharge when measurement is finished
- Auto-Ranging — dual scale operation for better sensitivity and easier readings
- Designed 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

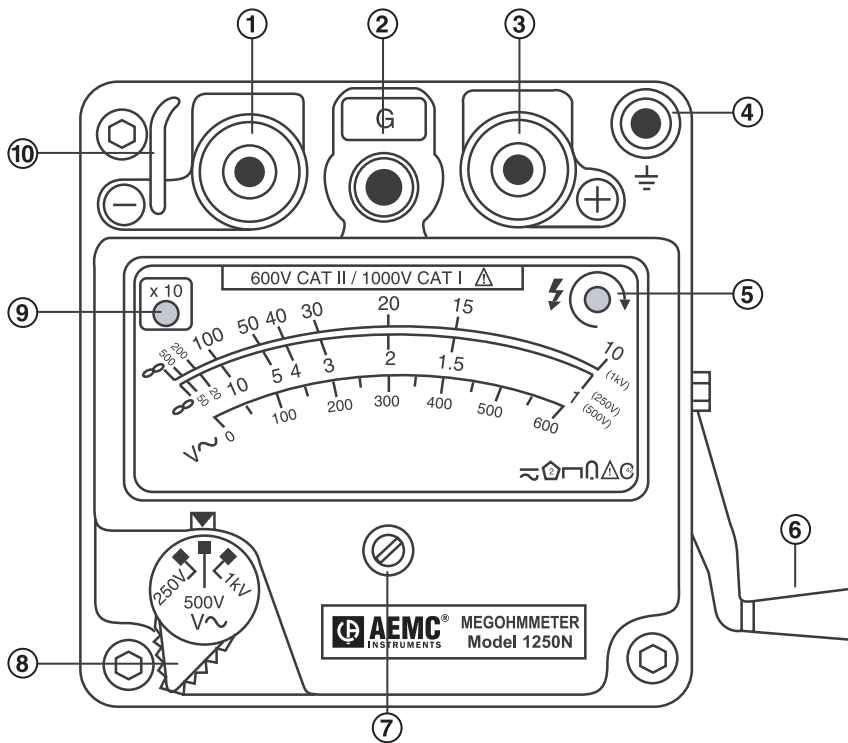
Applications

- 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	250V	1 to 11MΩ; 11 to 500MΩ
(Auto-Ranging)	500V 1000V	1 to 11MΩ; 11 to 500MΩ 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