

MEGOHMMETERS

500V & 1000V HAND-CRANKED

MODELS 6501 & 6503

Designed for acceptance testing and preventive maintenance of wiring, cables, switchgear and motors

Ideal for use in areas affected by floods



SPECIFICATIONS

| MODELS | 6501 | 6503 |
|--------------------------------------|---|-------------------------------------|
| INSULATION TESTS | | |
| Test Ranges* | | |
| 250V | – | 1 to 500M Ω |
| 500V | 0.5 to 200M Ω | 1 to 500M Ω |
| 1000V | – | 10 to 5000M Ω (5G Ω) |
| Short Circuit Current | 5mA (max) | |
| Voltage Measurement/ Safety Check | 0 to 600Vac | |
| Accuracy (M Ω) | \pm 2.5% of Full Scale Length | |
| Automatic Discharge | 5s/ μ F | 8s/ μ F |
| Charge Time | | |
| 250V | – | 0.2s/ μ F |
| 500V | 0.5s/ μ F | 0.5s/ μ F |
| 1000V | – | 0.5s/ μ F |
| RESISTANCE TESTS | | |
| Measurement Range | 0 to 500k Ω | – |
| Test Current | 1mA _{DC} | – |
| Accuracy | \pm 2.5% of Full Scale Length | – |
| CONTINUITY TESTS | | |
| Measurement Range | 0 to 100 Ω | – |
| Test Current | 5mA _{DC} | – |
| Accuracy | \pm 2.5% of Full Scale Length | – |
| SAFETY | | |
| Safety Rating / IP Protection | EN 61010-1, 600V Cat. II, 300V CAT III / IP54 | |

*DC test voltage generated in full across the entire measurement range.
Consult factory for NIST Calibration prices

PRODUCT INCLUDES

MODEL 6501

Soft carrying case, (2) color-coded (red/black) leads and alligator clips and a user manual.

MODEL 6503

Soft carrying case, (3) color-coded (red/black/blue) leads and alligator clips, black test probe and a user manual.



SHOWN: 6503



FEATURES

- True Megohmmeter®
- No batteries or power needed to operate
- Test voltages of 250V, 500V and 1000V (model dependent)
- Insulation measurements to 200M Ω and 5000M Ω (model dependent)
- LED indicates constant voltage output and proper cranked speed controlled by voltage regulator
- Automatic discharge when measurement is finished
- Auto-Ranging – dual scale operation for better sensitivity and easier readings
- Compact self-contained package; folded crank
- Voltage displayed prior to, during and at the end of test
- Large direct reading scale

| CATALOG NO. | DESCRIPTION |
|-------------|---|
| 2126.51 | Megohmmeter Model 6501 (Hand-cranked, 500V, Resistance, Continuity) |
| 2126.52 | Megohmmeter Model 6503 (Hand-cranked, 250V, 500V, 1000V) |

MEGOHMMETERS

SELECTION CHART

| AEMC MODEL NUMBER | AEMC CATALOG NUMBER | TEST VOLTAGE | INSULATION RANGE | RESISTANCE RANGE | CONTINUITY RANGE | CAPACITANCE RANGE | VOLTAGE DETECTION | POWER SOURCE | DISPLAY | DATAVIEW® SOFTWARE |
|--------------------|---------------------|---|--|------------------|---------------------------------------|-------------------|---------------------|---------------------------|---------------------|--------------------|
| 6501 | 2126.51 | 500V | 0.5 to 200MΩ | 500kΩ | 100Ω | — | 600Vac | Hand-cranked | Analog | No |
| 6503 | 2126.52 | 250V 500V 1000V | 1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ | — | — | — | 600Vac | Hand-cranked | Analog | No |
| 6527 | 2126.53 | 250V 500V 1000V | 1kΩ to 4GΩ 1kΩ to 4GΩ 1kΩ to 4GΩ | 400kΩ | 400Ω | — | 600Vac 1000Vdc | 6 x AA Alkaline Batteries | Digital/ Analog | No |
| 6522 | 2155.51 | 250V 500V 1000V | 50kΩ to 10GΩ 100kΩ to 20GΩ 200kΩ to 40GΩ | — | 10Ω | — | 700Vac/dc | 6 x AA Alkaline Batteries | Digital/ Analog | No |
| 6528 | 2126.54 | 250V 500V 1000V | 0.050MΩ to 4200MΩ 0.100MΩ to 4200MΩ 0.20MΩ to 11GΩ | 0 to 420kΩ | 0 to 40Ω (200mA test current ≤ 2Ω) | — | 700Vac 700Vac/dc | 6 x AA Alkaline Batteries | Digital | No |
| 6529 | 2126.55 | 50V 100V 250V 500V 1000V | 0.010MΩ to 420MΩ 0.020MΩ to 420MΩ 0.050MΩ to 420MΩ 0.100MΩ to 4200MΩ 0.20MΩ to 11GΩ | 0 to 420kΩ | 0 to 40Ω (200mA test current ≤ 2Ω) | — | 700Vac 700Vac/dc | 6 x AA Alkaline Batteries | Digital | No |
| 6524 | 2155.52 | 50V 100V 250V 500V 1000V | 10kΩ to 10GΩ 20kΩ to 20GΩ 50kΩ to 50GΩ 100kΩ to 100GΩ 200kΩ to 200GΩ | 1000kΩ | 10Ω, 100Ω | — | 700Vac/dc | 6 x AA Alkaline Batteries | Digital/ Analog | No |
| 6526 | 2155.53 | 50V 100V 250V 500V 1000V | 10kΩ to 10GΩ 20kΩ to 20GΩ 50kΩ to 50GΩ 100kΩ to 100GΩ 200kΩ to 200GΩ | 1000kΩ | 10Ω, 100Ω | 0.1n to 10μF | 700Vac/dc | 6 x AA Alkaline Batteries | Digital/ Analog | Yes |
| 6532 | 2155.54 | 50V 100V | 10kΩ to 10GΩ 20kΩ to 20GΩ | 1000kΩ | 10Ω, 100Ω | 0.1n to 10μF | 700Vac/dc | 6 x AA Alkaline Batteries | Digital/ Analog | Yes |
| 6534 | 2155.55 | 10V 25V 100V 250V 500V | 2kΩ to 1GΩ 5kΩ to 2GΩ 10kΩ to 10GΩ 50kΩ to 25GΩ 100kΩ to 50GΩ | 1000kΩ | 10Ω, 100Ω | — | 700Vac/dc | 6 x AA Alkaline Batteries | Digital/ Analog | Yes |
| 6536 | 2155.56 | 10V 100V | 2kΩ to 20GΩ | 1000kΩ | 10Ω, 100Ω | — | 700Vac/dc | 6 x AA Alkaline Batteries | Digital/ Analog | No |
| 6536 ESD Floor Kit | 2155.57 | (variable in 1V steps) | | | | | | | | |
| 1050 | 2130.01 | 50V 100V 250V 500V 1000V | 2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ | 400kΩ | 40Ω | 0.005 to 4.999μF | 1000Vac/dc | 8 x 1.5V C Cell Batteries | Digital/ Analog | No |
| 1060 | 2130.03 | 50V 100V 250V 500V 1000V | 2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ | 400kΩ | 40Ω | 0.005 to 4.999μF | 1000Vac/dc | Rechargeable NiMH Battery | Digital/ Analog | Yes |
| 6505 | 2130.18 | 500V 1000V 2500V 5000V | 10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ | — | — | 0.001 to 49.99μF | 2500Vac 4000Vdc | Rechargeable NiMH Battery | Digital/ Analog | No |
| 5050 | 2130.20 | 500V 1000V 2500V 5000V | 10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ | — | — | 0.001 to 49.99μF | 2500Vac 4000Vdc | Rechargeable NiMH Battery | Digital/ Analog | No |
| 5060 | 2130.21 | 500V 1000V 2500V 5000V | 10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ | — | — | 0.001 to 49.99μF | 2500Vac 4000Vdc | Rechargeable NiMH Battery | Digital/ Analog | Yes |
| 5070 | 2130.30 | 500V 1000V 2500V 5000V | 10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ | — | — | 0.001 to 49.99μF | 2500Vac 4000Vdc | Rechargeable NiMH Battery | Graphic/ Digital | Yes |
| 6550 | 2130.31 | 500V 1000V 2500V 5000V 10,000V | 10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ | — | — | 0.001 to 19.99μF | 2500Vac 4000Vdc | Rechargeable NiMH Battery | Digital/ Analog | Yes |
| 6555 | 2130.32 | 500V 1000V 2500V 5000V 10,000V 15,000V | 10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ 10kΩ to 30,000GΩ | — | — | 0.001 to 19.99μF | 2500Vac 4000Vdc | Rechargeable NiMH Battery | Digital/ Analog | Yes |

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