

# MEGOHMMETERS

## 5000 V DIGITAL/ANALOG

### MODELS 5050 & 5060

*Designed with the highest level of built-in safety features*

### SPECIFICATIONS

| MODELS                                    | 5050  | 5060   |
|---|---|--|
| <b>INSULATION TESTS</b>                   |   |  |
| <b>Test Voltage</b>                       | <b>500 V</b>  | 10 kΩ to 2000 GΩ (2 TΩ)                                |
|   | <b>1000 V</b>   | 10 kΩ to 4000 GΩ (4 TΩ)                                |
|   | <b>2500 V</b>   | 10 kΩ to 10,000 GΩ (10 TΩ)                             |
|   | <b>5000 V</b>   | 10 kΩ to 10,000 GΩ (10 TΩ)                             |
| <b>User Selectable Test Voltage</b>       | Programmable:<br>(40 to 1000) V: 10 V increments;<br>(1000 to 5100) V: 100 V increments |  |
| <b>Accuracy</b>                           | <b>10 kΩ to 399.9 GΩ</b><br><b>400 GΩ to 10 TΩ</b>                                      | ± 5 % of Reading ± 3 cts<br>± 15 % of Reading ± 10 cts |
| <b>Voltage Test/Safety Check</b>          | 2500 VAC/4000 Vdc   |  |
| <b>Voltage Warning Indicator</b>          | Yes > 25 V  |  |
| <b>Test Inhibition</b>                    | Yes – selectable at (3, 10, or 20) % of test voltage                                    |  |
| <b>Smooth Function (user selectable)</b>  | Digital filtering stabilizes display readings   |  |
| <b>COMMUNICATION</b>                      |   |  |
| <b>Storage of Readings over Time R(t)</b> | 4 kB memory   | 128 kB memory  |
| <b>Storage of Test Results</b>            | 20 readings   | 1500 readings  |
| <b>Communication Port</b>                 | –   | Serial and RS-232 to USB adapter (included)            |
| <b>PC Software/Report Generation</b>      | –   | DataView® (included)                                   |
| <b>ELECTRICAL</b>                         |   |  |
| <b>Power Supply</b>                       | (1) 9.6 V NiMH battery pack (included)<br>Line power: (85 to 256) V (50/60) Hz          |  |
| <b>SAFETY</b>                             |   |  |
| <b>Safety Rating</b>                      | EN 61010-1, 600 V, CAT III 1000 V   |  |

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### ACCESSORIES/REPLACEMENTS

**CATALOG #2119.45** PC RS-232 DB9 F/F 6 ft Null Modem Cable (5060 & 5070)

**CATALOG #2119.84** Fuse, set of (3), 0.1 A, 380 V, 5 x 20, .10 kA

**CATALOG #2133.73** Extra Large Classic Tool Bag (18 x 9 x 12) in

**CATALOG #2135.43** Inverter – 12 VDC to 120 VAC 200 Watt for Vehicle use

**CATALOG #2136.80** Cable – 10 ft USB Cable

**CATALOG #2140.46** Cable - 5 ft USB A-B Cable

**CATALOG #2151.30** Lead – Replacement set of (3), 10 ft (5 kV) color-coded safety with clips (Jumper lead not included)

**CATALOG #2151.31** Lead – Replacement 1 ft jumper lead (blue)

**CATALOG #2151.32** Lead – Set of (3), 25 ft (5 kV) safety with clips

**CATALOG #2960.21** Battery – Rechargeable 9.6 V

**CATALOG #5000.60** Adapter RS-232 to USB 2.0 (5060 & 5070)

**CATALOG #5000.14** US 115 V Power Cord

**USB THUMB DRIVE** Supplied with DataView® software and user manual (5060 & 5070)



5050

5060



DataView®

5060 only

### FEATURES

- True Megohmmeter®
- Test voltage selections of (500, 1000, 2500, and 5000) V
- Variable test voltage from (50 to 5100) V (model 5060)
- Wide measurement range up to 10 TΩ
- Automatic discharge at the completion of the test
- Measure AC voltage up to 4000 V
- Automatic test inhibit if live voltage detected above a set value
- Programmable alarms for all functions
- Automatic calculation of DAR, PI and DD ratios
- Large, backlit LCD screen with digital display and bargraph
- Measures capacitance up to 49.99 μf
- Stores up to 1500 measurements (model 5060)
- Includes DataView® software for data retrieval, real-time display, analysis and report generation

### PRODUCT INCLUDES

#### 5050, 5060 & 5070

Extra large classic tool bag, set of (3) 10 ft (5 kV) safety leads (red/black/blue) with clips, one guard terminal jumper lead (blue), US 115 V power cord, rechargeable battery pack, and user manual (5050)



| CATALOG NO. | DESCRIPTION   |
|-------------|---|
| 2130.20     | Megohmmeter Model 5050 (Digital, Analog Bargraph, Backlight, Alarm, Timer, 500 V, 1000 V, 2500 V, 5000 V, Auto DAR/PI/DD)                           |
| 2130.21     | Megohmmeter Model 5060 (Digital, Analog Bargraph, Backlight, Alarm, Timer, 500 V, 1000 V, 2500 V, 5000 V, Auto DAR/PI/DD, USB w/DataView® Software) |



# 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 |
|--------------------|---------------------|---|--|------------------|--|---------------------|---|---------------------------|---------------------|--------------------|
| 6503               | 2126.52             | 250 V<br>500 V<br>1000 V                                    | (1 to 500) MΩ<br>(1 to 500) MΩ<br>(10 to 5000) MΩ  | -                |  |                     | 600 V <sub>AC</sub>                           | Hand-cranked              | Analog              | No                 |
| 6522               | 2155.51             | 250 V<br>500 V<br>1000 V                                    | 50 kΩ to 10 GΩ<br>100 kΩ to 20 GΩ<br>200 kΩ to 40 GΩ   | -                | 10 Ω                                       | -                   | 700 V <sub>AC/DC</sub>                        | (6) AA Alkaline Batteries | Digital/<br>Analog  | No                 |
| 6527               | 2126.53             | 250 V<br>500 V<br>1000 V                                    | 1 kΩ to 4 GΩ<br>1 kΩ to 4 GΩ<br>1 kΩ to 4 GΩ   | 400 kΩ           | 400 Ω                                      | —                   | 600 V <sub>AC</sub><br>1000 V <sub>DC</sub>   | (6) AA Alkaline Batteries | Digital/<br>Analog  | No                 |
| 6529               | 2126.55             | 50 V<br>100 V<br>250 V<br>500 V<br>1000 V                   | (0.010 to 420) MΩ<br>(0.020 to 420) MΩ<br>(0.050 to 420) MΩ<br>(0.100 to 4200) MΩ<br>0.20 MΩ to 11 GΩ                        | (0 to 420) kΩ    | (0 to 40) Ω<br>(200 mA test current ≤ 2 Ω) | -                   | 700 V <sub>AC</sub><br>700 V <sub>AC/DC</sub> | (6) AA Alkaline Batteries | Digital             | No                 |
| 6526               | 2155.53             | 50 V<br>100 V<br>250 V<br>500 V<br>1000 V                   | 10 kΩ to 10 GΩ<br>20 kΩ to 20 GΩ<br>50 kΩ to 50 GΩ<br>100 kΩ to 100 GΩ<br>200 kΩ to 200 GΩ                                   | 1000 kΩ          | 10 Ω,<br>100 Ω                             | 0.1 n to<br>10 μF   | 700 V <sub>AC/DC</sub>                        | (6) AA Alkaline Batteries | Digital/<br>Analog  | Yes                |
| 6534               | 2155.55             | 10 V<br>25 V<br>100 V<br>250 V<br>500 V                     | 2 kΩ to 1 GΩ<br>5 kΩ to 2 GΩ<br>10 kΩ to 10 GΩ<br>50 kΩ to 25 GΩ<br>100 kΩ to 50 GΩ  | 1000 kΩ          | 10 Ω,<br>100 Ω                             | -                   | 700 V <sub>AC/DC</sub>                        | (6) AA Alkaline Batteries | Digital/<br>Analog  | Yes                |
| 6536               | 2155.56             | 10 V  | 2 kΩ to 20 GΩ  | 1000 kΩ          | 10 Ω,<br>100 Ω                             | -                   | 700 V <sub>AC/DC</sub>                        | (6) AA Alkaline Batteries | Digital/<br>Analog  | No                 |
| 6536 ESD Floor Kit | 2155.57             | 100 V<br>(variable in 1 V steps)                            |  |                  |  |                     |   |                           |                     |                    |
| 1060               | 2130.03             | 50 V<br>100 V<br>250 V<br>500 V<br>1000 V                   | 2 kΩ to 200 GΩ<br>4 kΩ to 400 GΩ<br>10 kΩ to 1 TΩ<br>20 kΩ to 2 TΩ<br>40 kΩ to 4 TΩ  | 400 kΩ           | 40 Ω                                       | (0.005 to 4.999) μF | 1000 V <sub>AC/DC</sub>                       | Rechargeable NiMH Battery | Digital/<br>Analog  | Yes                |
| 6505               | 2130.18             | 500 V<br>1000 V<br>2500 V<br>5000 V                         | 10 kΩ to 2 TΩ<br>10 kΩ to 4 TΩ<br>10 kΩ to 10 TΩ<br>10 kΩ to 10 TΩ   | -                | -  | (0.001 to 49.99) μF | 2500 V <sub>AC</sub><br>4000 V <sub>DC</sub>  | Rechargeable NiMH Battery | Digital/<br>Analog  | No                 |
| 5050               | 2130.20             | 500 V<br>1000 V<br>2500 V<br>5000 V                         | 10 kΩ to 2 TΩ<br>10 kΩ to 4 TΩ<br>10 kΩ to 10 TΩ<br>10 kΩ to 10 TΩ   | -                | -  | (0.001 to 49.99) μF | 2500 V <sub>AC</sub><br>4000 V <sub>DC</sub>  | Rechargeable NiMH Battery | Digital/<br>Analog  | No                 |
| 5060               | 2130.21             | 500 V<br>1000 V<br>2500 V<br>5000 V                         | 10 kΩ to 2 TΩ<br>10 kΩ to 4 TΩ<br>10 kΩ to 10 TΩ<br>10 kΩ to 10 TΩ   | -                | -  | (0.001 to 49.99) μF | 2500 V <sub>AC</sub><br>4000 V <sub>DC</sub>  | Rechargeable NiMH Battery | Digital/<br>Analog  | Yes                |
| 5070               | 2130.30             | 500 V<br>1000 V<br>2500 V<br>5000 V                         | 10 kΩ to 2 TΩ<br>10 kΩ to 4 TΩ<br>10 kΩ to 10 TΩ<br>10 kΩ to 10 TΩ   | -                | -  | (0.001 to 49.99) μF | 2500 V <sub>AC</sub><br>4000 V <sub>DC</sub>  | Rechargeable NiMH Battery | Graphic/<br>Digital | Yes                |
| 6550               | 2130.31             | 500 V<br>1000 V<br>2500 V<br>5000 V<br>10,000 V             | 10 kΩ to 2000 GΩ<br>10 kΩ to 4000 GΩ<br>10 kΩ to 10,000 GΩ<br>10 kΩ to 15,000 GΩ<br>10 kΩ to 25,000 GΩ                       | -                | -  | (0.001 to 19.99) μF | 2500 V <sub>AC</sub><br>4000 V <sub>DC</sub>  | Rechargeable NiMH Battery | Digital/<br>Analog  | Yes                |
| 6555               | 2130.32             | 500 V<br>1000 V<br>2500 V<br>5000 V<br>10,000 V<br>15,000 V | 10 kΩ to 2000 GΩ<br>10 kΩ to 4000 GΩ<br>10 kΩ to 10,000 GΩ<br>10 kΩ to 15,000 GΩ<br>10 kΩ to 25,000 GΩ<br>10 kΩ to 30,000 GΩ | -                | -  | (0.001 to 19.99) μF | 2500 V <sub>AC</sub><br>4000 V <sub>DC</sub>  | Rechargeable NiMH Battery | Digital/<br>Analog  | Yes                |

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