# **1000V Digital/Analog Megohmmeter Models 1050 & 1060**



The AEMC Megohmmeter Models 1050 and 1060 are an innovative family of professional 1000V Digital/Analog insulation testers. They are designed to facilitate testing quickly and accurately by incorporating automatic measurement features and user friendly functions.

Measurements are displayed on a large dual-display LCD with bargraph for quick viewing of changes or trends. Resistance readings are displayed on the larger display, and a smaller display is used for test voltage at the sample, test run times (mm:ss), or alarm set points – all accessible at the press of a button. A family of visual indicators for safety and information also compliments the displays. A bright blue electroluminescent backlight makes for clear readings in dark areas. Both models automatically provide the DAR and PI ratios directly on the display. User defined PI time intervals may also be programmed. The user may even select DAR or PI functions before the test, and the megohmmeter will stop at the appropriate time and display the results. Test run times from 1 second to 59 minutes are also directly programmable. The tested sample Capacitance is available at the end of each insulation resistance test.

For specific applications and operator or equipment safety, test voltages may be disabled to avoid any errors. An automatic test inhibitor prevents testing on live circuits above 25V. Discharge test voltage may be displayed at the completion of each test.

A memory feature in both models permits storing, recalling and displaying of resistance values taken at user specified intervals during a test.

The Model 1060 has an RS-232 interface and a more extensive memory function, which permits the storage of results in files specific to the device under test. Additionally, it also has a built-in document function, which prints out a preformatted report on a serial or parallel printer. A standard software package (DataView®) enables the user to display graphs and results for complete documentation and reporting. The Model 1060 can also be programmed and run by a PC with this software. This enables tailored test programs, remote operation and storing of information directly into a PC.

Both models are built into a double insulated field case with a detachable accessory pouch.



www.byramlabs.com 1 Columbia Rd Branchburg, NJ 08876 Phone: 800-766-1212

### **Features**

- True Megohmmeter<sup>®</sup>
- Test voltage combinations of 50V, 100V, 250V, 500V and 1000V
- Insulation measurements to  $4000G\Omega$  ( $4T\Omega$ )
- Direct measurement of DAR and PI values
- Direct measurement of sample Capacitance
- Display of test voltage and run time
- Programmable test run times and PI times
- Smooth and Alarm functions
- Automatic test inhibition (if live sample >25V)
- Automatic discharge after use with voltage display
- · Large dual display with time, voltage and measurement
- · Bright blue electroluminescent backlight
- · Battery powered
- Auto power-down when not in use
- · Remote operation with optional test probe
- Rugged dual wall field case with detachable lead/ accessory pouch
- EN 61010-1, 600V Cat. III, EN 61557
- CE Mark

# Model 1060 includes these additional features:

- AC rechargeable NiMH batteries run while recharging
- RS-232 interface for direct printing of results (serial output)
- 128kB memory to store measurements in specific files
- · Remote operation of megohmmeter through PC
- Includes DataView<sup>®</sup> software for data storage, real-time display, analysis and report generation

### **Applications**

- Test insulation on cables, transformers, motors, insulators and wiring installations
- · High resistance or absorption tests
- · Spot reading tests
- Timed resistance measurements
- Dielectric Absorption Ratio (DAR) and Polarization Index (PI) tests
- Low insulation test range for testing old or flooded installations
- Motor insulation resistance measurements
- · Continuity checks and low resistance measurements
- · Computer controlled production line testing
- Predictive maintenance by storing results in PC for trend analysis

1050         1060           50V (0.002MΩ to 200GΩ)         ✓         ✓           100V (0.004MΩ to 400GΩ)         ✓         ✓           250V (0.01MΩ to 1TΩ)         ✓         ✓           500V (0.02MΩ to 2TΩ)         ✓         ✓           1000V (40kΩ to 4TΩ)         ✓         ✓           Voltage Test/Safety Check (600VAc/bc)         ✓         ✓           Guard Terminal         ✓         ✓           Continuity (40Ω) @200mA         ✓         ✓           Resistance (400kΩ)         ✓         ✓           Lead Compensation         ✓         ✓           Backlight         ✓         ✓           Timer (1–59 minutes)         ✓         ✓           Digital Dual Display         ✓         ✓           Analog Bargraph         ✓         ✓           Auto-Off         ✓         ✓           Continuity Buzzer Disable         ✓         ✓           Voltage Detection (>25V)         ✓         ✓           Automatic Discharge         ✓         ✓           Act Supply 85-256V/50/60Hz         –         ✓           Battery Powered         –         ✓           Battery Capacity (%) Indication         ✓         <	FUNCTION	MODEL	MODEL
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250V $(0.01 M\Omega$ to $1T\Omega$ ) $\checkmark$ $\checkmark$ 500V $(0.02 M\Omega$ to $2T\Omega$ ) $\checkmark$ $\checkmark$ 1000V $(40 k\Omega$ to $4T\Omega$ ) $\checkmark$ $\checkmark$ Voltage Test/Safety Check (600VAc/DC) $\checkmark$ $\checkmark$ Guard Terminal $\checkmark$ $\checkmark$ Continuity ( $40\Omega$ ) @200mA $\checkmark$ $\checkmark$ Resistance ( $400 k\Omega$ ) $\checkmark$ $\checkmark$ Lead Compensation $\checkmark$ $\checkmark$ Backlight $\checkmark$ $\checkmark$ Timer (1-59 minutes) $\checkmark$ $\checkmark$ Digital Dual Display $\checkmark$ $\checkmark$ Analog Bargraph $\checkmark$ $\checkmark$ Auto-Off $\checkmark$ $\checkmark$ Continuity Buzzer $\checkmark$ $\checkmark$ Safety Test Inhibitor $\checkmark$ $\checkmark$ Automatic Discharge $\checkmark$ $\checkmark$ Rechargable NiMH Battery- $\checkmark$ Battery Powered- $\checkmark$ Battery Capacity (%) Indication $\checkmark$ $\checkmark$ Automatic DAR/PI $\checkmark$ $\checkmark$ Report Printout on Serial Printer- $\checkmark$	· · · ·	1	1
500V (0.02MΩ to 2TΩ)✓1000V (40kΩ to 4TΩ)✓Voltage Test/Safety Check (600VAc/bc)✓Guard Terminal✓Continuity (40Ω) @200mA✓Kesistance (400kΩ)✓Lead Compensation✓Øligtal Dual Display✓Digital Dual Display✓Auto-Off✓Continuity Buzzer✓Continuity Buzzer✓Voltage Detection (>25V)✓Safety Test Inhibitor✓Auto-Off Disable✓Auto-Off Disable✓✓✓Safety Test Inhibitor✓Auto-Off Disable✓✓✓Auto-Off Disable✓✓✓Auto-Off Disable✓✓✓Auto-Off Disable✓✓✓Auto-Off Disable✓✓✓Rechargable NiMH Battery–✓✓Auto-Off Disable✓✓✓Automatic DAR/PI✓✓✓Report Printout on Serial Printer–✓✓Report Printout on Serial Printer–✓✓Automatic Darage (128kB)–✓✓✓✓Autor off Printout on Serial Printer–✓✓Autor Autor on Serial Printer–✓✓Autor Autor On Serial Printer–✓✓Autor Autor Serial Printer– <tr< td=""><td>100V (0.004MΩ to 400GΩ)</td><td>1</td><td>1</td></tr<>	100V (0.004MΩ to 400GΩ)	1	1
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Lead Compensation✓Backlight✓Timer (1–59 minutes)✓Digital Dual Display✓Analog Bargraph✓✓✓Auto-Off✓✓✓Continuity Buzzer✓✓✓Continuity Buzzer Disable✓✓✓Voltage Detection (>25V)✓✓✓Automatic Discharge✓✓✓Rechargable NiMH Battery–✓✓Battery Powered–Battery Capacity (%) Indication✓✓✓Automatic DAR/PI✓✓✓Smooth Function✓✓✓Report Printout on Serial Printer–✓✓Report Printout on Serial Printer–	Continuity (40Ω) @200mA	1	1
Backlight✓✓Timer (1–59 minutes)✓✓Digital Dual Display✓✓Analog Bargraph✓✓Auto-Off✓✓Continuity Buzzer✓✓Continuity Buzzer✓✓Continuity Buzzer Disable✓✓Voltage Detection (>25V)✓✓Safety Test Inhibitor✓✓Automatic Discharge✓✓Rechargable NiMH Battery–✓Battery Powered–✓Battery Capacity (%) Indication✓✓Automatic DAR/PI✓✓Smooth Function✓✓Report Printout on Serial Printer–✓	Resistance (400k $\Omega$ )	1	1
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Safety Test Inhibitor✓Automatic Discharge✓Rechargable NiMH Battery–AC Supply 85-256V/50/60Hz–Battery Powered–Gattery Capacity (%) Indication✓Auto-Off Disable✓Autoroff Disable✓Smooth Function✓✓✓Remory Storage (128kB)–✓✓Autor Off Printout on Serial Printer–✓✓	Continuity Buzzer Disable	1	1
Automatic Discharge✓Rechargable NiMH Battery–AC Supply 85-256V/50/60Hz–Battery Powered–Battery Capacity (%) Indication✓Auto-Off Disable✓Automatic DAR/PI✓Smooth Function✓✓✓Report Printout on Serial Printer–✓✓	Voltage Detection (>25V)	1	1
Rechargable NiMH Battery-AC Supply 85-256V/50/60Hz-Battery Powered-Battery Capacity (%) Indication✓Auto-Off Disable✓Automatic DAR/PI✓Smooth Function✓Memory Storage (128kB)-Report Printout on Serial Printer-	Safety Test Inhibitor	1	1
AC Supply 85-256V/50/60Hz     -     ✓       Battery Powered     -     ✓       Battery Capacity (%) Indication     ✓     ✓       Auto-Off Disable     ✓     ✓       Auto-Off Disable     ✓     ✓       Smooth Function     ✓     ✓       Memory Storage (128kB)     -     ✓       Report Printout on Serial Printer     -     ✓	Automatic Discharge	1	1
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Battery Capacity (%) Indication       ✓       ✓         Auto-Off Disable       ✓       ✓         Automatic DAR/PI       ✓       ✓         Smooth Function       ✓       ✓         Memory Storage (128kB)       –       ✓         Report Printout on Serial Printer       –       ✓	AC Supply 85-256V/50/60Hz	-	1
Auto-Off Disable     ✓     ✓       Automatic DAR/PI     ✓     ✓       Smooth Function     ✓     ✓       Memory Storage (128kB)     –     ✓       Report Printout on Serial Printer     –     ✓	Battery Powered	-	1
Automatic DAR/PI     ✓     ✓       Smooth Function     ✓     ✓       Memory Storage (128kB)     –     ✓       Report Printout on Serial Printer     –     ✓	<b>Battery Capacity (%) Indication</b>	1	1
Smooth Function     ✓     ✓       Memory Storage (128kB)     –     ✓       Report Printout on Serial Printer     –     ✓	Auto-Off Disable	1	1
Memory Storage (128kB)     -     ✓       Report Printout on Serial Printer     -     ✓	Automatic DAR/PI	1	1
Report Printout on Serial Printer – 🗸	Smooth Function	1	1
•	Memory Storage (128kB)	-	1
	Report Printout on Serial Printer	-	1
	RS-232 Communication	-	1



Model 1060 checking insulation resistance between windings on a three-phase motor.



## Construction



Back-lit dual liquid

Function buttons (6 on Model 1050) or (8 on Model 1060) Model 1050 is not equipped with MEM or PRINT buttons



The Models 1050 and 1060 are built into a double insulated field case. This extra rugged construction provides double insulation, maximum field durability and ease of serviceability



Large display and buttons make the Model 1060 ideal for shop use even with gloves.



# **Specifications**

MODELS	1050	1060	
ELECTRICAL			
Insulation Tests			
Test Voltage 50V 100V 250V 500V 1000V	0.002MΩ to 200GΩ 0.004MΩ to 400GΩ 0.01MΩ to 1000GΩ (1TΩ) 0.02MΩ to 2000GΩ (2TΩ) 0.04MΩ to 4000GΩ (4TΩ)	0.002ΜΩ to 200GΩ 0.004ΜΩ to 400GΩ 0.01ΜΩ to 1000GΩ (1ΤΩ) 0.02ΜΩ to 2000GΩ (2ΤΩ) 0.04ΜΩ to 4000GΩ (4ΤΩ)	
Short Circuit Current	<6mAdc	< 6mAdc	
$\begin{array}{c} \mbox{Accuracy} & 2 k \Omega \mbox{ to } 400 G \Omega \\ & 400 G \Omega \mbox{ to } 4T \Omega \end{array}$	$\pm 5\%$ of Reading $\pm 3$ cts $\pm 5\%$ of Reading $\pm 10$ cts	±5% of Reading ± 3cts ±5% of Reading ± 10cts	
DAR (1 min/30 sec)	0.000 to 9.999	0.000 to 9.999	
PI (10 min/1 min & user programmable)	0.000 to 9.999	0.000 to 9.999	
Capacitance Check	0.005 to 4.999µF	0.005 to 4.999µF	
Programmable Run Time R(t)	1 to 59 minutes	1 to 59 minutes	
Smooth Function	Yes	Yes	
Discharge After Test	Yes	Yes	
Discharge Voltage Display	Yes	Yes	
Voltage Tester/Safety Check	0 to 1000Vac/dc	0 to 1000Vac/dc	
Voltage Warning Indicator	>25V	>25V	
Test Inhibition	Yes > 25V	Yes > 25V	
Guard Terminal	Yes	Yes	
Resistance Tests			
Range	0.01 $\Omega$ to 400k $\Omega$	0.01Ω to 400kΩ	
Test Voltage	12.4Vpc max	12.4Vbc max	
Short Circuit Current	<6mAdc	<6mAbc	
Accuracy	±3% of Reading ± 3cts	$\pm$ 3% of Reading $\pm$ 3cts	
Continuity Tests			
Range	0.01Ω to 39.99Ω	0.01Ω to 39.99Ω	
Test Current	$\geq$ 200mA from 0.01 to 20.00 $\Omega$	$\geq$ 200mA from 0.01 to 20.00 $\Omega$	
Accuracy	$\pm 3\%$ of Reading $\pm 4$ cts	$\pm$ 3% of Reading $\pm$ 4cts	
Buzzer Power Source	Yes Eight 1.5V C Cells	Yes Rechargeable NiMH batteries AC Supply: 85 to 256Vac (50/60Hz)	
MECHANICAL			
Dimensions	9.45 x 7.28 x 4.33" (240 x 185 x 110mm)	9.45 x 7.28 x 4.33" (240 x 185 x 110mm)	
Weight	7.5 lb (3.4kg)	7.5 lb (3.4kg)	
Protection Index	IP53	IP53	
DISPLAY			
Backlight	Blue electroluminescent	Blue electroluminescent	
Display Size	4 x 2.25" (102 x 57mm)	4 x 2.25" (102 x 57mm)	
Digital Display	Two 4000-count	Two 4000-count	
Analog Bargraph	31-segments	31-segments	
COMMUNICATION			
Remote Test Probe Operation	Yes (optional)	Yes (optional)	
Report Print Out on Printer	No	Preset format	
Storage of Readings over Time R(t)	20 Readings	128kB memory	
Programmable Reading Intervals	5 sec to 10 min	5 sec to 10 min	
Test Voltage Display	Yes	Yes	
Elapsed Test Time Display	Yes	Yes	
Test Voltage Lock-out	User programmed	User programmed	
Storage of Test Results	20 Readings	128kB memory with RS-232	
Bi-directional Software	No	Yes , DataView $^{ extsf{@}}$ (included)	
PC Operation of Megohmmeter	No	Yes	
SAFETY			
Safety Rating	EN 61010-1, 600V Cat. III, EN 61557	EN 61010-1, 600V Cat. III, EN 61557	
Double Insulation	Yes	Yes	
CE Mark	Yes	Yes	



#### Accessories



Detachable accessory pouch includes leads, alligator clips and test probe. Model 1060 pouch also includes cables and US 120V power cord.



The accessory carrying pouch attaches to the lid of the case via four press-on snaps.





PC RS-232, DB9 F/F 6 ft Null Modem Cable Catalog #2119.45



Cable, PC RS-232 DB9 F/F 6 ft for Model 1060



Remote Test Probe used with Models 1050 or 1060 with target light activated



Fax: 908-252-0822

# DataView<sup>®</sup> Software for Model 1060



Model 1060 easily configures land runs right from a PC.

Test Run Settings Test run time (6	0]500 (mma	. 01:00 - 59:00I	Date Format	Close
Sample interval R01		r, 00:05 - 59:00)	MM/DD/YYYY	
PI Settings	<b>F</b>		C European DD/MM//////	Write to Inst
1st PI time:	Sector Statement	s, 01:00 - 59:00)		Read from Inst
2nd PI time:	[3:00 (mmcs:	t. 01:00 - 59:00)	Buzzer	Save to Disk
Test Voltage	Alam Set F	and the second se	(* ON ≪0[])	Load from Disk
MΩ-50V □ Disable Voltage	< ▼ 50.00k	24-2006 Ω	C OFF	Delauits
MΩ-100V □ Disable Voltage	c ■ 100.0k	4k-400G Ω	Auto Power OFF	
MΩ-250V I <sup>™</sup> Disable Voltage	< 💌 250.0k	10k-1TΩ	© ON P	Set Clock
MΩ-5007 □ Disable Voltage	< 💌 500.0k	20k-2T Ω	C OFF	Clear Memory
MΩ-1000V IT Disable Voltage	< 💌 1000k	40k-4T Ω	Lead Compensation	Download
400 k.Ω	c 💌 100.0k	0.01-400k.Ω	6 m 8	
40Ω =<0))	2000	0.01-40 Q	C OFF +0+	Heb

Clear and easy setup from one dialog box.

#### **Features**

# Configure all functions of the Megohmmeter Model 1060

#### Print reports of all test results

- Select test voltage and run tests from your computer with a simple click and execute process
- · Capture and display data in real time
- Retrieve data from the instrument's memory:
  - a. Over 1500 insulation resistance measurements
  - b. Over 4000 resistance measurements
- · Display DAR and PI ratios
- · Plot graphs of manual and timed tests
- Include your analysis in the comments section with the report
- Store a library of setups for different applications

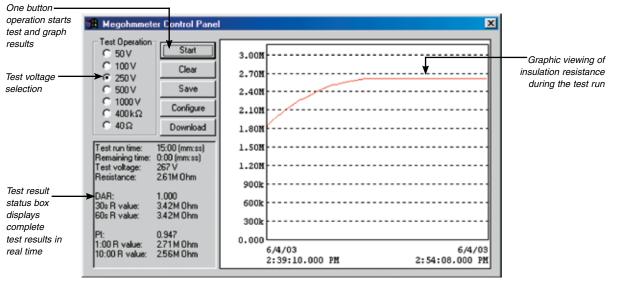
### Minimum System Requirements

- Windows® 2000/XP/Vista
- 128MB of RAM for Windows<sup>®</sup> 2000 (256MB recommended)

256MB of RAM for Windows® XP

512MB of RAM for Windows® Vista

- 80MB of hard disk space (200MB recommended)
- CD-ROM Drive



Run test and display results from one dialog box.





Reports may be displayed on your PC and printed. Each report includes all test results in a tabular and graphic format, as well as operator and test site information. Comments typed in at time of storage will also be included.

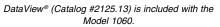
🏦 Megohmmete	r 1060 Control	Panel	×
C 50 V C 100 V C 250 V C 500 V C 500 V C 1000 V C 400 kΩ C 40 Ω	Start Clear Save Configure Downlo Me	1.50m 1.35m 1.20m 1.05m 	×
Duration: Resistance: Voltage:	10:00 (mm:s 1.09M0hm 268.3V	Downloading data records Checking Object 1, Test 1.	
DAR: DAR 30s value: DAR 60s value:		Cancel	
Pl ratio Pl 1:00 value: Pl 10:00 value:	1.09MOhm	0.000 5/30/03 12:05:49.000 PM	5/30/03 12:15:48.000 PM

	tribite	
AFRE Instruments	Text Dute 272 Company	
100 Forderstraph Birth	12145 Technology, 54 02020	
600-400-0115		
And Control of the second seco	n al	Table 20.48 Mas 1.43 Table 10.48 Cas 2.43 2.43 2.43 2.43 0.49 0.

A simple press of the download button from either the setup or run dialog boxes will show all test results stored in the Model 1060.

The DataView<sup>®</sup> Software provides a convenient way to configure and control Megohmmeter tests from your computer. Through the use of two clear and easy-to-use dialog boxes, all functions of the Model 1060 can be configured and tests can be initiated. Results can be displayed in real time and stored in your PC. Reports can be printed along with the operator's comments and analysis.





🚮 Megohmi	neter 1060 Co	introl Panel				×
C 50V	Save Megohr	nmeter Object 1, Te	ests 1-2 As		? ×	
C 100\ C 250\	Save jn: 🔁	DataFiles	×	ا 🗹 🖻	<b>*</b> 🔳	
C 500 \ C 1000	conveyor.					
C 400k C 40Ω	SampleDat	a.dvb				
Duration:						
Resistance Voltage:						
DAR: DAR 30s v	File pame:	Motor 1		_	Save	
DAR 60s v	Save as type:	DataView Database R	Files (*.dvb)	•	Cancel	
Pl ratio Pl 1:00 val		C Open as read-only				5/30/03
PI 10:00 va	100.	14	03.49.000 2	n	12.13.40	3.000 PM

Each test will be stored as its own file and may be given its own unique file name.





Model 1060 performing insulation test on contacts of a generator.



Model 1060 checking insulation resistance between windings on a three-phase motor.

ORDERING INFORMATION	CATALOG NO.
Megohmmeter Model 1050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V 1000V, Auto DAR/PI, Resistance, Continuity)	
Includes detachable accessory pouch (one red, one blue test lead, one black shielded lead, three color-coded (black, red and blue) alligator clips, one black test probe), batteries, spare fuses and user manual	ł
<b>Megohmmeter Model 1060</b> (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity, RS-232 with Software, 128kB Memory)	Cat. #2130.03
Includes detachable accessory pouch (one red, one blue test lead, one black shielded lead, three color-coded (black, red and blue) alligator clips, one black test probe; one 6 ft RS-232 DB9/DB25 F/F to DB9/DB25 F/F cable, rechargeable battery, DataView <sup>®</sup> Software, US 120V power cord, spare fuses and user manual	
Accessories (Optional)	
Remote Test Probe	Cat. #2118.97
Cable, PC RS-232, DB9 F/F 6 ft Null Modem Cable.	
Serial Printer Cable RS-232 DB9 F/F 6 ft	Cat. #2119.46

