TEST & MEASUREMENT INSTRUMENTS

2008 Rev. 01





Megohmmeters • Power Quality Analyzers, Meters and Loggers • Ground Resistance Testers • Cable Testers • Data Loggers • Environmental Testers • Digital Multimeters • Clamp-On Meters • Oscilloscopes • Leakage Current Meters and Probes • DC Power Supplies • Decade Boxes • Current Measurement Probes Electrical Test Tools • Micro-Ohmmeters • Transformer Ratiometers

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When ordering, please use the catalog number and product description.

Example:

Quantity	Catalog #	Description
1	2117.61	Ground Resistance Tester Model 3731 (Clamp-On) with memory and alarm

- ◆ A separate price list is available. Contact your AEMC® Instruments distributor or AEMC® Instruments for an up-to-date copy.
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Detailed product brochures available on the web!



Table of Contents

Megohmmeters	
Power Quality Analyzers, Meters and Loggers	12
Ground Resistance Testers	18
Cable Testers	25
Data Loggers	28
Environmental Testers	38
Clamp-On Meters	43, 67
Leakage Current Meters and Probes	45
Oscilloscopes	49
DC Power Supplies	51
Decade Boxes	52
Current Measurement Probes	53
Electrical Test Tools	60
High Voltage Detectors	62
Transformer Ratiometers	63
Micro-Ohmmeters	64
Other Products from the Chauvin Arnoux® Group	66
Digital Mulitimeters	
Clamp-On Meters	
Meghommeters Selection Chart	68
Ground Resistance Testers Selection Chart	69
Catalog Cross Reference Index	70
Training Seminars	72
Product Support	Inside Back Cove



Digital/Analog Megohmmeter Models 1030, 1040 & 1045



Models 1030, 1040 & 1045







SPECIFICATIONS				
MODELS		1030	1040	1045
INSULATION TESTS				
Test Voltage 25		50 k Ω to 0 Μ Ω (2G Ω)	-	50k Ω to 2000M Ω (2G Ω)
50	, v	00 k Ω to 0 M Ω (2 G Ω)	100k Ω to 2000M Ω (2G Ω)	100k Ω to 2000M Ω (2G Ω)
100	OV	-	200k Ω to 2000M Ω (2G Ω)	200k Ω to 2000M Ω (2G Ω)
Short Circuit Current			≤3mA	
Accuracy <40M ≥40M		±3% of Reading ± 5cts ±3% of Reading ± 2cts		
Voltage Test/Safety Check			0 to 600Vac/dc	
Voltage Warning Indicator		>25V		
Test Inhibition			Yes >25V	
RESISTANCE TESTS (M	ODELS	1040 AND	1045)	
Measurement Range		– 0.0 to 400kΩ		400kΩ
Test Voltage		_	7 t	o 9V
Test Current		– 600μA		
Accuracy >4k	Ω	2 – ±3% of Reading ± 1ct		
CONTINUITY TESTS	CONTINUITY TESTS			
Measurement Range	0.00 to 19.99Ω			
Test Current		≥200mA		
Accuracy		±3% of Reading ± 1ct		

For motors, cables, switchgear and general applications

Features

- True Megohmmeter®
- Test voltage combinations of 250V, 500V and 1000V
- Insulation measurements to 2000M Ω (2G Ω)
- Automatic test inhibition (if live sample >25V)
- Automatic discharge for operator safety
- Multi-line 4000-count backlit digital display with analog bargraph
- Resistance measurements to 400kΩ
- · Continuity with 200mA test current
- Timer function for easy DAR and PI (Model 1045)
- Slip-proof over-molded protective rubber housing for rugged field use
- EN 61010-1, 300V Cat. II, EN 61557
- Includes test leads and soft carrying case (see page 3)



Field kits include megohmmeter, field case, two color-coded leads, black test probe, two alligator clips, remote test probe, batteries and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2116.89	Megohmmeter Model 1030 (Digital, with Analog Bargraph, 250V, 500V)	\$499.00	\$75.00
2116.92	Megohmmeter Model 1040 (Digital, with Analog Bargraph, Alarm, Backlight, 500V, 1000V, 400k Ω , Continuity)	\$549.00	\$94.00
2116.93	Megohmmeter Model 1045 (Digital, with Analog Bargraph, Alarm, Timer, Backlight, 250V, 500V, 1000V, 400kΩ, Continuity)	\$639.00	\$94.00
2117.30	Megohmmeter Model 1040 Field Kit	\$829.00	\$94.00
2117.31	Megohmmeter Model 1045 Field Kit	\$919.00	\$94.00
Accessories (Optional			
2118.97	Remote Test Probe	\$184.00	-
2118.98	Field Case (Waterproof)	\$145.00	-
2118.99	Hands-Free Carrying Case	\$ 61.00	-

Multi-Function Voice, Data, Video Cable Testing Megohmmeter Models 1035 & 1039

For voice, data and video cable applications

Features

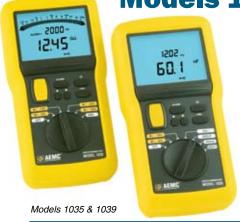
Common features with Models 1030, 1040 & 1045, plus:

- True Megohmmeter®
- · Test voltage combinations of 50V, 100V, 250V and 500V
- Insulation measurement to 20,000M Ω (20G Ω) (Model 1035)
- Insulation measurement to 400MΩ (Model 1039)
- Capacitance measurement to 4000nF (Model 1039)
- · Cable length measurement to 80.0km (>264,000 ft) (Model 1039)
- · Ideal for telecom testing and high sensitivity measurements

EN 0-1, 600V Cat. III, EN 61557

Field kits include megohmmeter, field case, two color-coded leads, (three for Model 1035). black test probe, two alligator clips (three for Model 1035), two grip probes, remote test probe, AC current probe (Model 1039 Kit only), batteries and user manual.





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SPECIFICATIONS				
MODELS		1035	1039	
INSULATION T	ESTS			
Test Voltage	50V	10kΩ to 2000MΩ (2GΩ)	10k Ω to 400M Ω	
	100V	20 k Ω to 2000 M Ω (2 G Ω)	$20 \mathrm{k}\Omega$ to $400 \mathrm{M}\Omega$	
	250V	50 k Ω to $20,000$ M Ω (20 G Ω)	_	
	500V	100k Ω to 20,000M Ω (20G Ω)	_	
Short Circuit Cur	rrent	≤3	mA	
Accuracy		±3% of Rea	nding ± 5cts	
Voltage Test/Saf	ety Check	0 to 60	OVac/dc	
Voltage Warning	Indicator	>2	25V	
Test Inhibition		Yes >25V		
RESISTANCE TESTS				
Measurement Ra	ange	0.0 to 400k Ω	0.0 to 40.0kΩ	
Test Voltage		7 to 9V	7 to 9V	
Test Current		600 μA $< 400\Omega;$ 6 μA $> 40\Omega$	600μA < 400 Ω	
Accuracy	$>$ 400k Ω	$\pm 3\%$ of Reading $\pm 1ct$	$\pm 3\%$ of Reading \pm 1ct	
CURRENT TEST	TS			
AC Current Rang	je	_	0.00 to 400mA (240A) (with probe option)	
CAPACITANCE	/CABLE LE	NGTH		
Capacitance Rar		-	0.00 to 4000nF	
Cable Length Ra	nge	_	0.000 to 80.0km	
VOLTAGE TEST	S			
Measurement Ra	ange	_	0 to 400Vac	
Accuracy		_	+3% of Reading + 1ct	

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2116.90	Megohmmeter Model 1035 (Digital, with Analog Bargraph, Alarm, Backlight, 50V, 100V, 250V, 500V, 400k Ω)	\$ 649.00	\$ 94.00
2116.91	Megohmmeter Model 1039 (Digital, with Analog Bargraph, Alarm, ΔRel, Backlight, 50V, 100V, mA, nF, km)	\$ 789.00	\$ 94.00
2115.42	Megohmmeter Model 1035 Field Kit	\$ 929.00	\$ 94.00
2115.43	Megohmmeter Model 1039 Field Kit	\$1,149.00	\$109.00
Accessories (Optional)		
2115.73	AC Current Probe Model MN211 (Lead – 1mA/A – 240A max (for use with Model 1039 only)	\$ 99.00	\$ 65.00
2118.97	Remote Test Probe	\$ 184.00	-
2118.98	Field Case (Waterproof)	\$ 145.00	-
2118.99	Hands-Free Carrying Case	\$ 61.00	-

1000V Digital/Analog Megohmmeter Models 1050 & 1060



SPECIFICAT	SPECIFICATIONS			
MODELS		1050	1060	
INSULATION TES	STS			
Test Voltage 50V 100V 250V 500V 1000V		$2 \text{k}\Omega$ to $200 \text{G}\Omega$ $4 \text{k}\Omega$ to $400 \text{G}\Omega$ $10 \text{k}\Omega$ to $1000 \text{G}\Omega$ (11Ω) $20 \text{k}\Omega$ to $2000 \text{G}\Omega$ (21Ω) $40 \text{k}\Omega$ to $4000 \text{G}\Omega$ (41Ω)		
Accuracy	$2 k \Omega$ to $400 G \Omega$ $400 G \Omega$ to $4 T \Omega$		ading ± 3cts ading ± 10cts	
Voltage Test/Safet	ty Check	0 to 10	00Vac/dc	
Voltage Warning I	ndicator	•	25V	
Test Inhibition			>25V	
Smooth Function		\	/es	
RESISTANCE TESTS				
Measurement Ran	ige	****	to 400kΩ	
Test Voltage			/DC max	
Test Current			mAdc	
Accuracy		±3% of Re	ading ± 3cts	
CONTINUITY TE				
Measurement Ran	ige	0.01 to 39.99Ω		
Test Current			0.01 to 20.00Ω	
Accuracy	· · ·	±3% of Re	ading ± 4cts	
COMMUNICATIO		V (00 D III)	V (1001 D	
Memory of Readin	• .,	Yes (20 Readings)	Yes (128kB memory)	
Report Print Out D		No	Preset format	
Memory of Test Re		No	128kB memory with RS-232	
PC Software/Repo	ert Generation	No	Yes (included)	
ELECTRICAL				
Power Source		Eight 1.5V C Cells	9.6V NiMH Battery Pack 85 to 256V (50/60Hz)	

Features

- True Megohmmeter®
- 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 and display of discharge voltage
- Large dual display with time, voltage and measurement
- · Bright blue electroluminescent backlight
- Battery powered (Model 1050)
- Auto power-down when not in use
- Remote operation with optional test probe
- Rugged, dual wall, weatherproof field case with detachable lead/accessory pouch
- EN 61010-1, 600V Cat. III, EN 61557

Model 1060 includes the following additional features:

- AC rechargeable NiMH battery pack
- 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® software for data storage, real-time display, analysis and report generation



Models 1050 and 1060 include detachable accessory pouch including one red, one blue test lead, one black shielded lead, one each black, red and blue alligator clips, one black test probe and user manual. Model 1060 also includes PC RS-232, DB9 F/F 6 ft null modem cable, rechargeable battery, DataView® software and US 120V power cord.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.01	Megohmmeter Model 1050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity)	\$1,299.00	\$98.00
2130.03	Megohmmeter Model 1060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity, RS-232 w/ DataView® software, 128kB Memory)	\$1,799.00	\$98.00
2118.97	Remote Test Probe	\$ 184.00	-



Features

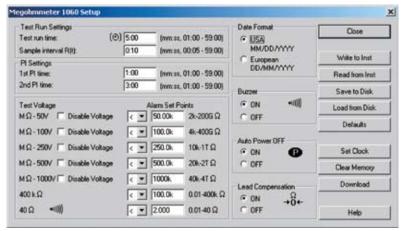
- Configure all functions of the Megohmmeter Model 1060
- Print reports of all test results
- Select test voltage and run tests from your computer with a simple click and execute process
- · Capture and display data in real time
- Retrieve data from the instrument's memory:
 - Over 1500 insulation resistance measurements
 - Over 4000 resistance measurements
- Display DAR and PI ratios
- · Plot graphs of manual and timed tests
- · Include your analysis comments section with the report
- Store a library of setups for different applications
- Certification of results through report generation

Minimum System Requirements:

- Windows®2000/XP/Vista
- 128MB of RAM for Windows®2000 (256MB of RAM recommended) 256MB of RAM for Windows®XP 512MB of RAM for Windows®Vista
- 80MB of hard disk space (200MB recommended)
- CD-ROM drive

DataView® Software for Model 1060

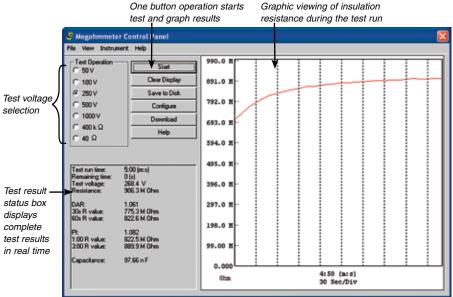




Clear and easy setup from one dialog box.



DataView® is included with the Model 1060.



Run test and display results from one dialog box.

DataView® software provides a convenient way to configure and control Megohmmeter tests from your computer. Through the use of 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.



5000V Digital/Analog & Graphical Megohmmeter Models 5050, 5060 & 5070



Features

- True Megohmmeter®
- Test voltage combinations of 500V, 1000V, 2500V and 5000V
- Insulation measurements from $30k\Omega$ to $10,000G\Omega$ ($10T\Omega$)
- Selectable and programmable test voltage (40 to 5100V)
- · Automatic calculation of DAR, PI and DD ratios
- Direct measurement and display of Capacitance and Leakage Current
- Display resistance, test voltage and run time
- · Programmable test run times and PI ratio times
- Smooth and Alarm functions
- Automatic test inhibition (if live sample >25V)
- Automatic discharge and display of discharge voltage
- Large dual display with time, voltage and measurements shown (Models 5050 and 5060)
- Graphic and digital display of test voltage, resistance and more (Model 5070)
- Bright blue electroluminescent backlight
 - Programmable test voltage lock-out
 - Programmable alarm setting
 - Auto power-down when not in
 - · AC or DC powered with rechargeable NiMH battery pack - run while charging
 - · Rugged, weatherproof field case
 - Designed and built to IEC safety standards
 - EN 61010-1, 1000V Cat. III

SPECIFICATIONS				
MODELS	5050	5060	5070	
INSULATION TESTS				
Test Voltage 500V 1000V 2500V 5000V	30kΩ to 2000 GΩ (2 TΩ) 100 kΩ to 4000 GΩ (4 TΩ) 100 kΩ to $10,000$ GΩ (10 TΩ) 300 kΩ to $10,000$ GΩ (10 TΩ)			
User Selectable Test Voltage		Programmable: 40 to 1000V: 10V increment 1000 to 5100V: 100V increme		
Automatic Step Voltage	Programmable ste voltage and duration five steps. Three pro can be stored.			
$ \begin{array}{ccc} \textbf{Accuracy} & 1 \text{k}\Omega \text{ to } 40 \text{G}\Omega \\ & 40 \text{G}\Omega \text{ to } 10 \text{T}\Omega \\ \end{array} $	±5% of Reading ± 3cts ±15% of Reading ± 10cts			
Voltage Test/Safety Check	0 to 1000Vac/dc			
Voltage Warning Indicator	Yes >25V			
Test Inhibition(1)	Yes — adjustable fro	m 25 to 1000V depending on	test voltage range in use	
Smooth Function (user selectable)	Digi	tal filtering stabilizes display r	eadings	
COMMUNICATION				
Storage of Readings over Time R(t)	4kB memory	128kB memory	128kB memory	
Report Print Out Direct to Printer	No	Preset format	Preset format	
Storage of Test Results	20 Readings	Stores over 1500 test results	Stores over 1500 test results	
Communication Port	_	RS-232	RS-232	
PC Software/Report Generation	No	Yes (included)	Yes (included)	
ELECTRICAL	ELECTRICAL			
Power Source 9.6V NiMH rechargeable battery pack – line power: 85 to 256V (50/60Hz)			r: 85 to 256V (50/60Hz)	

⁽¹⁾ Inhibit voltage is selectable at 3, 10 or 20% of test voltage



Models 5060 & 5070 include these additional features

- · RS-232 interface for direct printing of results (serial or parallel output)
- 128kB memory for storing extensive field test data
- · Configure instrument and run tests from a PC
- Includes DataView® software for data storage, real-time display, analysis and report generation (see page 8)

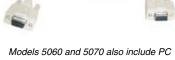
Model 5070 includes these additional features

- · Selectable and programmable test voltage (40 to 5100V) - three can be stored
- Automatic step voltage with programmable step and dwell times - three profiles can be stored. each with up to five steps
- · Programmable temperature compensation of resistance readings
- · Large graphic display with five line alphanumeric display and graph of all test results

FEATURES & FUNCTIONS				
MODELS	5050	5060	5070	
Test Voltage 500V	✓	1	1	
1000V	✓	✓	✓	
2500V	✓	✓	✓	
5000V	✓	✓	✓	
Selectable 40 to 5100V	✓	✓	✓	
Step Voltage	-	_	1	
Rechargeable Batteries	✓	✓	1	
AC Powered	✓	1	1	
Smooth Function	✓	✓	✓	
Alarm Function	✓	✓	✓	
Test Voltage Lockout	✓	✓	✓	
Timer Function	✓	✓	✓	
Record Function	-	✓	✓	
Print Function	-	✓	✓	
Graph Function	-	-	✓	
Temperature Correction Function	-	-	1	
Software Included	_	1	1	



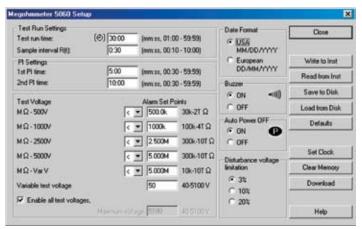




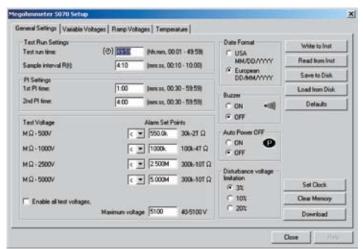
RS-232, DB9 F/F 6 ft null modem cable and DataView® software.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.20	Megohmmeter Model 5050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Auto DAR/PI/DD)	\$2,995.00	\$142.00
2130.21	Megohmmeter Model 5060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V Auto DAR/PI/DD, RS-232 w/DataView® software)	\$3,595.00	\$142.00
2130.30	Megohmmeter Model 5070 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Ramp, Auto DAR/PI/DD, RS-232 w/DataView® software)	\$4,295.00	\$142.00
Accessories (Optiona	al)		
2119.45	Cable, PC RS-232, DB9 F/F 6 ft Null Modem Cable	\$ 16.95	-
2119.46	Cable, PC RS-232, DB9 F/F 6 ft (for serial printer)	\$ 11.95	-
2119.76	Leads, set of three, 10 ft color-coded with color-coded alligator clips; (rated 5000V)	\$ 308.00	-
2119.85	Leads, set of three, 10 ft color-coded with color-coded clips; one red, one blue and one black with integral 5kV hippo clips (rated 5000V)	\$ 395.00	-
2119.86	Leads, set of three, 25 ft color-coded with color-coded clips; one red, one blue and one black with integral 5kV hippo clips (rated 5000V)	\$ 550.00	-
2119.87	Leads, set of three, 45 ft color-coded with color-coded clips; one red, one blue and one black with integral 5kV hippo clips (rated 5000V)	\$ 825.00	-

DataView[®] Software for Models 5060 & 5070

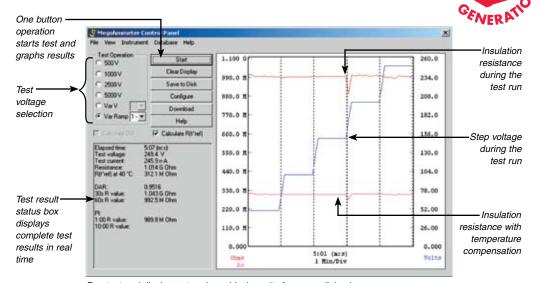


Clear and easy setup from one dialog box for Model 5060.



Four tabbed dialog boxes allow for clear and easy setup of all functions of the Model 5070, including setup for variable voltage and alarm set points, as well as step voltage tests and temperature compensation.

DataView® software provides a convenient way to configure and control Megohmmeter tests from your computer. Through the use of clear and easy-to-use dialog boxes, all functions of the Models 5060 and 5070 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.



Run test and display text and graphical results from one dialog box. Model 5070 also displays step voltage.

Features

- Configure all functions of the Megohmmeter Models 5060 and 5070
- · 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:
 - Over 1500 insulation resistance measurements
 - Over 4000 resistance measurements
- · Display DAR, PI and DD 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
- Certification of results through report generation

Minimum System Requirements:

- Windows®2000/XP/Vista
- 128MB of RAM for Windows®2000 (256MB of RAM recommended)
 256MB of RAM for Windows®XP
 512MB of RAM for Windows®Vista
- 80MB of hard disk space (200MB recommended)
- CD-ROM drive

500V Hand-cranked Megohmmeter Model 1210N 1000V Hand-cranked Megohmmeter Model 1250N

Features

- True Megohmmeter®
- Test voltage combinations of 250V, 500V and 1000V
- · Insulation measurements to 200 and $5000M\Omega$
- · 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 with aluminum lid
- · Compact self-contained package; folding crank
- Large direct-reading scale
- · Includes test leads, clips and test probe







Includes test leads, clips, test probe (in detachable soft carrying case) and user manual. The case attaches to the carrying strap.

SPECIFICATIONS				
MODELS	1210N	1250N		
INSULATION TESTS				
Test Voltage* 250V 500V 1000V	0.5 to 5.5 M Ω ; 5.5 to 200 M Ω	1 to 11M Ω ; 11 to 500M Ω 1 to 11M Ω ; 11 to 500M Ω 10 to 110M Ω ; 110 to 5000M Ω		
Short Circuit Current	5mA (max)	5mA (max)		
Voltage Measurement/ Safety Check	0 to 600Vac	0 to 600Vac		
Accuracy (M Ω)	2.5% of Full Scale Length	2% of Full Scale Length		
RESISTANCE TESTS				
Measurement Range	0 to 45kΩ 45 to 500kΩ	-		
Test Current	1mA constant current	-		
Accuracy	2.5% of Full Scale Length	-		
CONTINUITY TESTS				
Measurement Range	0 to 9Ω 9 to 100Ω	-		
Test Voltage	10V max, 5mA constant	-		
Accuracy	2% of Full Scale Length	-		

*DC Test voltage generated 5.5 to 200M Ω in full across the entire measurement range.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1326.01	Megohmmeter Model 1210N (Hand-cranked, 500V, 500k Ω , Continuity)	\$845.00	\$94.00
1326.02	Megohmmeter Model 1250N (Hand-cranked, 250V, 500V, 1000V)	\$945.00	\$94.00

1000V Digital Megohmmeter Model 1026



Model 1026



Features

- Test voltage combinations of 250V, 500V and 1000V
- Insulation measurements to $4000M\Omega$
- Resistance measurements to 4000Ω
- · Continuity test
- · Continuity beeper
- 600VAC/DC test voltage range
- · Large, easy-to-read digital display
- Data hold switch
- Test button may be "locked-on" for three minutes for hands-free operation
- Automatic discharge when test button is released
- Low battery indicator
- · Includes test leads and soft carrying case

SPECIFICATIONS		
MODEL	1026	
INSULATION TESTS		
Test Voltage 250 500 1000	1 k Ω to 4000 M Ω	
Accuracy <2000M ≥2000M		
RESISTANCE TESTS		
Measurement Range	Auto ranging to 4000Ω	
Resolution	0.1 to 1Ω	
Accuracy	±1% of Reading ± 5cts	
CONTINUITY TESTS		
Measurement Range	Displays and beeps below 40Ω	
Active	≤40Ω	
Protection	600Vrms	
VOLTAGE TESTS		
AC VOLTAGE Measurement Range	0 to 600V	
Accuracy	±1.5% of Reading ± 5cts	
DC VOLTAGE Measurement Range	0 to 600V	
Accuracy	±1% of Reading ± 3cts	



Model 1026 includes test leads, screw on alligator clips, soft carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.72	Megohmmeter Model 1026 (Digital, 250V, 500V, 1000V, 4000 Ω , V)	\$269.00	\$94.00

1000V Megohmmeter Model 1015

Features

- True Megohmmeter®
- Test voltage combinations of 500V or 1000V
- Insulation measurements to $1000M\Omega$
- Push button for battery check
- Resistance range to 1000Ω
- 0 to 10Ω and 0 to 10Ω + continuity ranges
- Continuity measurements with 200mA test current
- Compact and lightweight
- · Large, direct-reading, colored scale
- 600V test voltage range (safety check)
- · Includes a yellow, non-slip shockproof rubber housing and soft carrying case



Model 1015







Models 1015 include shockproof rubber housing, one set of black and red leads, one black test probe, one red alligator clip, spare fuse (inside Megohmmeter), four 1.5V Alkaline AA batteries, soft carrying case and user manual.

SPECIFICATIONS		
MODELS	1015	
INSULATION TESTS		
Test Voltage 500V 1000V	0.1 to 1000M Ω 0.1 to 1000M Ω	
Short Circuit Current	≤6mA (max)	
Accuracy	±5% of Reading	
Voltage Test/Safety Check	0 to 600Vac	
RESISTANCE TESTS		
Measurement Range	0 to 1000Ω	
Short Circuit Current	≥2mA	
Open Circuit Current	4.5 to 6.5V	
Accuracy	±3% of Full Scale	
CONTINUITY TESTS		
Measurement Range	0 to 10Ω-; 0 to 10Ω+	
Short Circuit Current	≥200mA	
Open Circuit Current	4.5 to 6.5V	
Accuracy	±3% of Full Scale	
VOLTAGE TESTS		
Measurement Range	0 to 600Vac	
Frequency	45 to 400Hz	
Accuracy	±3% of Full Scale	
Input Impedance	300kΩ	

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1403.01	Megohmmeter Model 1015 (Analog, 500V, 1000V, Resistance, Continuity)	\$549.00	\$96.00

Three-Phase Power Quality Analyzer PowerPad® Model 3945-B



FREE full featured software included for complete power quality analysis and reporting!







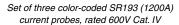
Model 3945-B	CE	Ш	
TIONS			

SPECIFICATIONS	
MODEL	3945-В
ELECTRICAL	
Sampling Frequency	256 samples/cycle
Data Storage	4MB partitioned for waveforms, transients, alarms and trend recording
Voltage (TRMS)	Phase-to-Phase: 960V Phase-to Neutral: 480V
Current (TRMS)	MN Clamp: 5mA to 100mA/120A or 2 to 240A MR Clamp: 10 to 1000Aac, 10 to 1400Abc SR Clamp: 3 to 1200A AmpFlex®: 10 to 6500A ⁽¹⁾
Frequency (Hz)	40 to 69Hz
Other Measurements	kW, kVAR, PF, DPF, kWh, kVARh, kVAh, K-Factor, Flicker
Harmonics	1 st to 50 th , Direction, Sequence
Power Source	9.6V NiMH rechargeable battery pack AC Supply: 110/230Vac ±20% (50/60Hz)
Battery Life	≥Eight hours with display on; ≤35 hours with display off (record mode)
MECHANICAL	
Communication Port	Optically coupled RS-232
Display	1/4 VGA (320 x 240) color LCD
Dimensions	9.5 x 7 x 2" (240 x 180 x 55mm)
Weight	4.6 lbs (2.1kg)
Safety Rating	EN 61010, 600V Cat. IV, Pollution Degree 2

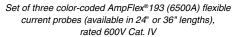
 $^{^{(1)}}$ Crest factor at 6500 = 1

Choose from a variety of current probe options









Features

- True RMS single-, two- and three-phase measurements at 256 samples/cycle, plus DC
- Real-time color waveforms
- Easy-to-use on-screen setup
- Automatic current probe recognition and scaling
- True RMS voltage and current measurement
- Measures DC volts, amps and power
- Display and capture voltage, current and power harmonics to 50th order, including direction, in
- Capture transients down to 1/256th of a cycle
- · Stores comprehensive data base of logged data
- Phasor diagram display
- VA, VAR and W per phase and total
- kVAh, VARh and kWh per phase and total
- Neutral current display for three-phase
- Transformer K-factor display
- Power Factor, displacement PF display
- Captures up to 50 transients
- Short-term flicker display
- Phase unbalance (current and voltage)
- · Harmonic Distortion (total and individual) from 1st to 50th
- Alarms, surges and sags
- Screen snapshot function captures waveforms or other information on the display
- Includes DataView® software FREE for data storage, real-time display, analysis and report generation



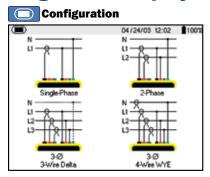
All models include three color-coded current probes with 10 ft leads (AmpFlex® example shown), four color-coded 10 ft voltage leads, four color-coded alligator clips, RS-232 DB9F optically coupled serial cable, NiMH battery, US 120V power cord, DataView® software, carrying bag, soft carrying pouch and user manual.

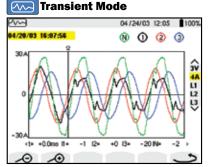


Set of three color-coded MN93 (240A) current probes or MN193 (6A/120A) current probes, rated 600V Cat. III



Large Color Display!





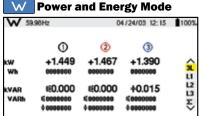


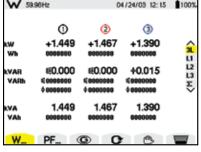
DataView® Software

for Model 3945-B



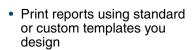
Configure all functions of the PowerPad®



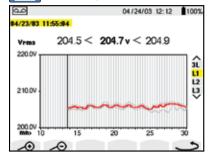


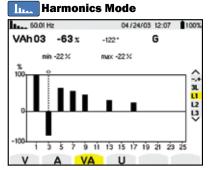


- Display and analyze real-time data on your PC · Configure all PowerPad® functions and
- parameters from your PC Customize views, templates and reports
- to your exact needs Create and store a complete library of configurations that can be uploaded to the
- PowerPad® as needed Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms









CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.75	PowerPad® Model 3945-B w/MN93 (240A)	\$4,095.00	\$190.00
2130.76	PowerPad® Model 3945-B w/SR193 (1200A)	\$4,245.00	\$190.00
2130.77	PowerPad® Model 3945-B w/24" AmpFlex® 193-24 (6500A)	\$4,395.00	\$190.00
2130.78	PowerPad® Model 3945-B w/36" AmpFlex® 193-36 (6500A)	\$4,595.00	\$190.00
2130.79	PowerPad® Model 3945-B w/MR193 (1000Aac/1400Adc)	\$4,495.00	-
2130.80	PowerPad® Model 3945-B w/MN193 (6A/120Aac)	\$4,395.00	-
Accessories (Optiona	al)		
2140.09	Set of three color-coded MN93 probes (240A) with 10 ft leads	\$ 449.00	-
2140.10	Set of three color-coded SR193 probes (1200A) with 10 ft leads	\$ 669.00	-
2140.11	Set of three color-coded 24" AmpFlex® 193-24 probes (6500A) with 10 ft leads	\$ 659.00	-
2140.12	Set of three color-coded 36" AmpFlex® 193-36 probes (6500A) with 10 ft leads	\$ 959.00	-
2140.13	Set of three color-coded MR193 probes (1000Aac/1400Apc) with 10 ft leads	\$ 819.00	-
2140.14	Set of three color-coded MN193 probes (6A/120A) with 10 ft leads	\$ 589.00	-
2140.17	5A Adapter box	\$ 895.00	\$ 94.00
2140.61	Set of four color-coded 30 ft voltage leads (rated 600V Cat. IV 10A)	\$ 129.00	-
2140.24	Set of three color-coded MN93-30 probes (240A) with 30 ft leads	\$ 589.00	-
2140.25	Set of three color-coded SR193-30 probes (1200A) with 30 ft leads	\$ 799.00	-
2140.26	Set of three color-coded 24" AmpFlex® 193-24-30 sensors (6500A) with 30 ft leads	\$ 799.00	-
2140.27	Set of three color-coded 36" AmpFlex® 193-36-30 sensors (6500A) with 30 ft leads	\$1,088.00	-
2140.28	One AC/DC Current Probe Model MR193-BK (black connector) (1000Aac/1400Abc)	\$ 289.00	-
2140.29	Set of three color-coded MN193-30 probes (6A/120A) with 30 ft leads	\$ 729.00	-
2140.30	Set of three color-coded MR193-30 probes (1000Aac/1400Abc) with 30 ft leads	\$ 949.00	_

Single-Phase Power Quality Analyzer PowerPad® Jr. Model 8230



Model 8230



SPECIFICATIONS		
MODEL	8230	
ELECTRICAL		
Voltage (TRMS)	Phase-to-Phase: 660V Phase-to-Neutral: 600V	
Current (TRMS)	MN Clamp: 5mA to 100mA/120A or 2 to 240A MR Clamp: 10 to 1000Aac, 10 to 1400Abc SR Clamp: 3 to 1200A AmpFlex®: 10 to 6500A ⁽¹⁾	
Frequency (Hz)	40 to 70Hz	
Other Measurements	kW, kVAR, PF, DPF, kWh, kVARh, kVAh, K-Factor, Flicker, Harmonic Phase Shift, Phase Rotation	
Harmonics	THD-R, THD-F, V, A, VA 1 st to 50 th , Direction, Sequence	
Sampling Frequency	256 samples/cycle	
Data Storage	1.5MB partitioned for waveforms, alarms and trend recording	
Power Source	Six NiMH AA rechargeable batteries AC Supply: 120/230Vac (50/60Hz) ⁽²⁾	
Battery Life	≥8 hrs with display on ≥40 hrs with display off (recording mode)	
MECHANICAL		
Communication Port	Optically isolated USB	
Display	1/4 VGA (320 x 240) color LCD	
Dimensions	8.3 x 4.3 x 2.4" (211 x 108 x 60mm)	
Weight	1.9 lbs (0.88kg)	
Safety Rating	EN 61010, 600V Cat. III, Pollution Degree 2	

⁽¹⁾Crest factor at 6500 = 1

Features

- Measures up to 660Vrms or VDC
- Measures up to 6500AAC or 1400ADC (probe dependent)
- Displays Min, Max and Average Volts and Amps, Crest Factor, Peak value and K-Factor
- Calculates and displays Watts, VARs and VA, Power Factor and Displacement Power Factor for single-phase and balanced three-phase
- Displays total harmonic distortion (THD-F and THD-R) for voltage and current
- Displays individual harmonic values and % for Volts and Amps through the 50th harmonic
- Captures, displays and stores inrush current waveforms and statistics
- · Stores up to eight screen captures
- Stores up to 1MB of trend recorded data
- Configurable from DataView® software or front panel
- Download stored data to DataView® software via optical USB port
- Captures up to 4096 alarm events from up to 10 different thresholds
- Displays and records up to 17 different power quality parameters
- Includes DataView® software free for data storage, real-time waveform display, analysis and report generation



All models include current probe with 10 ft lead and black connector (MN93 example shown), black and red 10 ft voltage leads and alligator clips, optical USB cable, NiMH battery, 120V US wall charger, DataView® software, carrying bag, soft carrying pouch and user manual.



⁽²⁾²³⁰V Optional

Large Color Display!

Configuration 10/06/06 02:56 30 ELECTRICAL HOOKUP Single-Phase (to confirm your choice)

Recording Setup



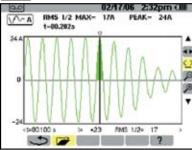
DataView® Software for Model 8230

View.



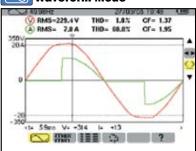


W Inrush Mode



Waveform Mode

Harmonics Mode

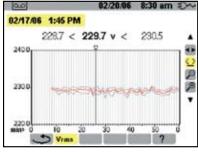


Configure all functions of the PowerPad® Jr.

- Display and analyze real-time data on your PC
- Configure all PowerPad® Jr. functions and parameters from your PC
- Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded to the PowerPad® Jr. as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms
- Print reports using standard or custom templates you design



Trend Recording



Vh 01 100.0% 228.1 v max 100.0 % THD 1.8 x 100 \circ B Æ 50 3 5 7 9 11 13 15 17 19 21 23 25 V A VA V -,+ A -,+ ?

The screens above are a sample of the many available on PowerPad® Jr.

Choose from a variety of current probe options



SR193 (1200A) current probe



AmpFlex®193 (6500A) flexible current probe (available in 24" or 36" lengths)

 ϵ

MN93 (240A) current probe or MN193 (6A/120A) current probe

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.82	PowerPad® Jr. Model 8230 w/MN93-BK (240A)	\$1,995.00	\$98.00
2130.83	PowerPad® Jr. Model 8230 w/SR193-BK (1200A)	\$2,195.00	\$98.00
2130.84	PowerPad® Jr. Model 8230 w/24" AmpFlex® 193-24-BK (6500A)	\$2,295.00	\$98.00
2130.85	PowerPad® Jr. Model 8230 w/36" AmpFlex® 193-36-BK (6500A)	\$2,395.00	\$98.00
2130.86	PowerPad® Jr. Model 8230 w/MR193-BK (1000Aac/1400Adc)	\$2,195.00	\$98.00
2130.87	PowerPad® Jr. Model 8230 w/MN193-BK (6A/120Aac)	\$2,095.00	\$98.00
Accessories (Optional for	Models 8230 & 8220)		
2140.28	AC Current Probe Model MR193-BK (1000Aac/1400Adc) with 10 ft leads	\$ 289.00	-
2140.32	AC Current Probe Model MN93-BK (240A) with 10 ft leads	\$ 199.00	-
2140.33	AC Current Probe Model SR193-BK (1200A) with 10 ft leads	\$ 299.00	-
2140.34	AmpFlex® sensor 24" Model 193-24-BK (6500A) with 10 ft leads	\$ 359.00	-
2140.35	AmpFlex® sensor 36" Model 193-36-BK (6500A) with 10 ft leads	\$ 459.00	-
2140.36	AC Current Probe Model MN193-BK (6A/120A) with 10 ft leads	\$ 249.00	-



Power Quality Meter Model 8220



SPECIFICATIONS		
MODEL	8220	
ELECTRICAL		
Voltage (TRMS)	Phase-to-Phase: 660V Phase-to-Neutral: 600V	
Current (TRMS)	MN Clamp: 5mA to 100mA/120A or 2 to 240A MR Clamp: 10 to 1000Aac, 10 to 1400Abc SR Clamp: 3 to 1200A AmpFlex®: 10 to 6500A ⁽¹⁾	
Frequency (Hz)	40 to 70Hz	
Other Measurements	kW, kVAR, PF, DPF, VA, Phase Rotation Temperature, RPM, Resistance, Continuity, Diode Test	
Harmonics	1 st to 50 th	
Sampling Frequency	256 samples / cycle	
Data Storage	Stores nine sets of readings for volts, amps, power and harmonics	
Power Source	Six 1.5V AA Alkaline batteries	
Battery Life	≥8 hrs with display on ≥40 hrs with display off (recording mode)	
MECHANICAL		
Communication Port	Optically isolated USB	
Display	Three-line backlit digital display with custom icons	
Dimensions	8.3 x 4.3 x 2.4" (211 x 108 x 60mm)	
Weight	1.9 lbs (0.88kg)	
Safety Rating	EN 61010, 600V Cat. III, IP 54, Pollution Degree 2	
(1)Crest factor at 6500 = 1		

Features

- Measures up to 660Vrms or VDC
- Measures up to 6500AAC or 1400ADC (probe dependent)
- Displays Min, Max and Average Volts and Amps, Crest Factor, Peak value and K-Factor
- Calculates and displays Watts, VARs and VA, Power Factor and Displacement Power Factor for single-phase and balanced three-phase
- Displays total harmonic distortion (THD-F and THD-R) for voltage and current
- Displays individual harmonic values and % for Volts and Amps through the 50th harmonic
- Captures and displays inrush current
- Calculates and displays phase rotation and RPM
- Displays temperature in both °F and °C
- Displays resistance up to 200Ω
- Conducts continuity and diode tests
- Stores up to nine complete sets of readings for all volt, amp, power and harmonic measurements
- Configurable from DataView® software or front panel
- Download stored data to DataView® software via optical USB port
- Operates off batteries or optional recharger
- Includes DataView® software free for data storage, real-time waveform display, analysis and report generation





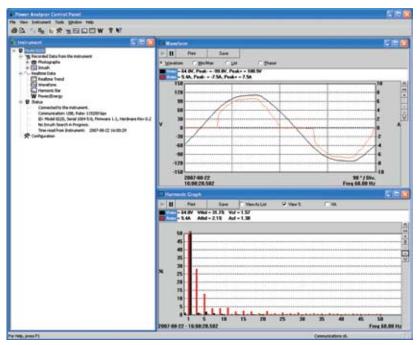
Optional AC power adapter

All models include current probe with 10 ft lead and black connector (MN93 example shown), black and red 10 ft voltage leads and alligator clips, optical USB cable, six 1.5V batteries, two safety test probes, DataView® software, carrying bag, soft carrying pouch and user manual. See page 15 for optional accessories available for Model 8220.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.91	Power Quality Meter Model 8220 w/MN93-BK (240A)	\$1,299.00	\$98.00
2130.92	Power Quality Meter Model 8220 w/SR193-BK (1200A)	\$1,399.00	\$98.00
2130.93	Power Quality Meter Model 8220 w/24" AmpFlex® 193-24-BK (6500A)	\$1,499.00	\$98.00
2130.94	Power Quality Meter Model 8220 w/36" AmpFlex® 193-36-BK (6500A)	\$1,599.00	\$98.00
2130.95	Power Quality Meter Model 8220 w/MR193-BK (1000Aac/1400Adc)	\$1,399.00	\$98.00
2130.96	Power Quality Meter Model 8220 w/MN193-BK (6A/120A)	\$1,349.00	\$98.00
2140.37	Adapter - US 110V Power Adapter (eliminates need for batteries)	\$ 129.00	-



DataView® Software for Model 8220



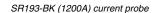
Real-time waveform and harmonics display using DataView® software.



Quick and easy setup from one screen.

Choose from a variety of current probe options







AmpFlex®193-BK (6500A) flexible current probe (available in 24" or 36" lengths)





DataView® is included with the Power Quality Meter Model 8220.

Configure all functions of the Model 8220

- Display and analyze real-time data on your PC
- Configure all Model 8220 functions and parameters from your PC
- Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded to the Model 8220 as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- · Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms
- · Print reports using standard or custom templates you design





MR93-BK (1000AAC/1400ADC) current probe



MN93-BK (240A) current probe or MN193-BK (6A/120A) current probe



Multi-Function
Ground Resistance Tester
Model 6472



Model 64/2		
SPECIFICATIONS		
MODEL	6472	
ELECTRICAL		
3-Point Measurement		
Range (Auto-Ranging)	0.09Ω to 99.9kΩ	
Resolution	0.01Ω to 100Ω	
Test Voltage	Nominal 16 or 32VRMS user selectable	
Resistance Measurement Frequency	41 to 5078Hz user selectable or automatic selection	
Test Current	Up to 250mA	
Accuracy	±2% of Reading + 1ct @ 128Hz	
Soil Resistivity 4-Point Measurement	-	
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results in Ω -meters, Ω -cm or Ω -feet	
Range (Auto-Ranging)	0.01 to 99.99k Ω ; ρ Max: 999k Ω m (display in k Ω ft is not possible)	
Resolution	0.01 to 100Ω	
Test Voltage	16 or 32V user selectable	
Frequency	From 41 to 128Hz selectable	
External Voltage Measurement		
Range (Auto-Ranging)	0.1 to 65.0Vac/dc - DC to 440Hz	
Accuracy	±2% of Reading + 1cts	
Resistance Measurement (Bond Testing		
Measurement Type	2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing) user selectable	
Range (Auto-Ranging)	2-Pole 0.01Ω to $99.9k\Omega$; 4-Pole 0.001Ω to $99.99k\Omega$	
Accuracy	±2% of Reading + 2cts	
Test Voltage	16Vpc (+, - or auto polarity)	
Test Current	Up to 250mA max	
Data Storage		
Memory Capacity	512 test results	
Communication	Optically Isolated USB	
Power Source	9.6V rechargeable battery pack	
Recharging Source	110/220 50/60Hz external charger with 18Vbc, 1.9A output or 12V vehicle power	

Features

- 2- and 4-Wire Bond Resistance/Continuity Measurement (DC Resistance) with automatic polarity reversal
- 3-Point Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Point soil resistivity measurement with automatic calculation of Rho (ρ) and user selection of the Wenner or Schlumberger test method
- · 3-Point earth coupling measurement
- Measures Ground Resistance using the 2 clamp method (selective ground testing)
- Measures Ground Impedance at frequencies up to 5kHz to test lightning strike protection
- Manual and automatic frequency scan from 40 to 5078Hz for optimum test accuracy in electrically noisy environments
- Selectable test voltage of 16 or 32V up to 250mA of test current
- · Auto-off power management
- Automatic recognition of all electrode connections and their resistance value
- Stores up to 512 complete test results
- Optically isolated USB communication
- Remote set up and operation of all measurements using DataView® software
- Automatic report generation including the fall of potential plot
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case
- Includes DataView® software for data storage, real-time display, analysis, report generation and system configuration

Description

The Model 6472 measures from 0.01 to 99.99k Ω and is auto-ranging, automatically seeking out the optimum measurement range, test frequency and test current.

Easy-to-use – Simply connect the leads, select test mode, press Start and read the results. Up to 512 test results can be stored in internal memory for recall to the display or downloaded to a PC via DataView® software.

The large LCD is easy-to-read and indicates ground electrode resistance, test voltage, current and frequency as well as individual electrode resistance, battery status and more.

The Model 6472 is Cat IV rated to 50V and is over voltage protected to more than 250Vac against accidental live connection to live circuits. The voltage is also displayed on screen. In the event of a system fault, the Model 6472 can withstand 250Vac.

Additional features of the Model 6472 include; manual and automatic test frequency selection from 40 to 5078Hz; user selectable 3 or 4-Pole Fall of Potential or 4-Pole Soil Resistivity test methods and user selectable 2-Wire or 4-Wire Bond Resistance test method.

The Model 6472 is powered by 9.6V, 3.5 Ah NiMH rechargeable batteries. An external recharger powered from 120/230V, 50/60Hz is included and provides for testing while recharging. The Model 6472 can also be vehicle powered from an optional 12V battery adapter. (Cat. #2135.42)



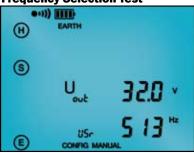
Large Display!

4-Point Bond Test



The 4-Point Bond test displaying lead connections, bond resistance test results, test voltage and current.

Frequency Selection Test



The Frequency selection screen displays selected test frequency and voltage for the test as well as lead connection.

Schlumberger Test



The Schlumberger test displays test lead connection, soil resistivity (ρ) test results, test electrode resistance and more.

3-Point Fall-of-Potential Test



The 3-Point Fall-of-Potential test displaying test lead connection, grounding electrode resistance, test voltage and frequency.

Data Storage



Memory Recall displays test results stored at a specific memory location.

Wenner Test



The Wenner test displays test lead connection, soil resistivity (Ω) test results, electrode spacing and resistance.

NOTE: More information for each test is available by scrolling through the displays.

Current Probe accessory options

(For use in two probe and selective ground testing methods)

AC Current Probe Model MN82 Catalog #2135.71



AC Current Probe Model SR182 Catalog #2135.72



DataView® Software for Model 6472



DataView® is included with the Model 6472.

- Configure all functions and parameters from your PC
- Display and analyze real-time data on your PC
- · Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded to the Model 6472 as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- · Print reports using standard or custom templates you design



Includes meter, rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, two 500 ft color-coded leads on spools (red/blue), two 100 ft color-coded leads (hand-tied, green/black), one 30 ft lead (green), four T-shaped auxiliary ground electrodes, set of five spaded lugs, one 100 ft AEMC® tape measure, DataView® software, ground tester workbook CD, carrying bag for meter, carrying bag for kit, product warranty and registration card and a user manual. Catalog #2135.54

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2135.51	Ground Resistance Tester Model 6472 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)	\$3,795.00	\$94.00
2135.52	Ground Resistance Tester Model 6472 Kit – 150 ft (Model 6472 and Catalog #2135.35)	\$4,195.00	\$99.00
2135.53	Ground Resistance Tester Model 6472 Kit – 300 ft (Model 6472 and Catalog #2135.36)	\$4,295.00	\$99.00
2135.54	Ground Resistance Tester Model 6472 Kit – 500 ft (Model 6472 and Catalog #2135.37)	\$4,395.00	\$99.00
Accessories (Optiona	al) Reference to page 21 for Model 6472 Kits Catalog #2135.35, #2135.36 & #2135.37		
2135.71*	AC Current Probe Model MN82 for use with Model 6472	\$ 299.00	-
2135.72*	AC Current Probe Model SR182 for use with Model 6472	\$ 369.00	-

^{*2} probes required for two clamp testing method.



Multi-Function Ground Resistance Tester



SPECIFICATIONS	
MODEL	6470
ELECTRICAL	
3-Point Measurement	
Range (Auto-Ranging)	0.01 to 99.99kΩ
Resolution	0.01 to 100Ω
Test Voltage	16 or 32V selectable
Resistance Measurement Frequency	40 to 513Hz selectable or automatic selection
Test Current	Up to 250mA
Accuracy	±2% of Reading + 1ct
Soil Resistivity 4-Point Measurement	<u>-</u>
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results displayed in Ω -meters or Ω -feet
Range (Auto-Ranging)	0.01 to 99.99kΩ
Resolution	0.01 to 100Ω
Test Voltage	16 or 32V selectable
Frequency	73, 91.5, 101, 110 or 128Hz selectable
External Voltage Measurement	
Range (Auto-Ranging)	0.1 to 65.0Vac/dc - DC to 450Hz
Accuracy	2% of Reading + 2cts
Resistance Measurement (Bond Testing)	
Measurement Type	2-Point or 4-Point user selectable
Range (Auto-Ranging)	2-Point 0.01 to 99.9kΩ; 4-Point 0.001 to 99.99kΩ
Accuracy	±2% of Reading + 2cts
Test Voltage	16Vpc
Test Current	200mA max
Data Storage	
Memory Capacity	512 test results
Communication	Optically isolated USB
Power Source	9.6V NiMH rechargeable battery pack
Recharging Source	110/120 50/60Hz external charge with 18Vpc, 1.9A output or 12Vpc vehicle power

Features

- 3- and 4-Point measurement with manual or automatic frequency selection (even during measurement) from 40 up to 500Hz
- Automatic calculation of Soil Resistivity Ωcm
- Selectable test voltage of 16 or 32V with up to 250mA
- Automatic frequency scan for optimum test frequency in noisy environments
- Automatic measurement of auxiliary electrodes resistance
- Soil resistivity measurement using Wenner or Schlumberger test method
- 2- and 4-Point DC resistance measurement with automatic polarity change (Bonding test function)
- Auto-off power management
- Automatic recognition of all electrode connections and their resistance value
- Memory stores up to 512 test results
- USB communication
- Remote operation of all measurement functions using DataView® software
- Automatic report generation through computer or serial printer
- Rechargeable NiMH battery pack
- Rugged dustproof and rainproof field case -IP54 in closed position
- IEC 61557 part 4 and part 5 compliance
- Includes DataView® software for data storage, real-time display, analysis report generation and system configuration





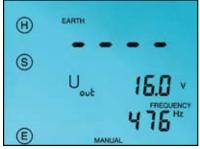
Large Display!

4-Point Bond Test



The 4-Point Bond test shows lead connections, bond resistance test results, test voltage and current.

Frequency Test



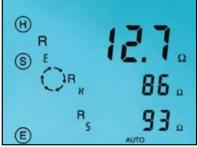
The Frequency selection screen displays selected test frequency and voltage for the test as well as lead connection.

Schlumberger Test



The Schlumberger test displays test lead connection, soil resistivity (0) test results and electrode spacing.

3-Point Fall-of-Potential Test



The 3-Point Fall-of-Potential test displays test lead connection, grounding rod resistance and test electrode resistances.

Memory Test



Displays test results stored at a specific memory location as well as the test function.

Wenner Test



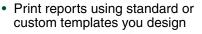
The Wenner test displays test lead connection, soil resistivity (ρ) test results, electrode spacing and resistance.

DataView® Software for Model 6470



DataView® is included with the Model 6470.

- · Configure all functions and parameters from your PC
- Display and analyze real-time data on your PC
- · Customize views, templates and reports to your exact needs
- · Create and store a complete library of configurations that can be uploaded to the Model 6470 as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data





Multi-Function Ground Resistance Tester Model 6470 Kit (500 ft) includes meter, NiMH batteries, optical USB cable, DataView® software, external battery charger, power cord 110/240V (line), one 30 ft green wire, one each 500 ft red and blue wire, one each 100 ft black and green wire, set of five spaded lugs, four auxiliary ground electrodes, tape measure, carrying case and user manual. Catalog #2135.04

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2135.01	Ground Resistance Tester Model 6470 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)	\$2,250.00	\$94.00
2135.02	Ground Resistance Tester Model 6470 Kit – 150 ft (Model 6470 and Catalog #2135.35)	\$2,649.00	\$99.00
2135.03	Ground Resistance Tester Model 6470 Kit – 300 ft (Model 6470 and Catalog #2135.36)	\$2,749.00	\$99.00
2135.04	Ground Resistance Tester Model 6470 Kit – 500 ft (Model 6470 and Catalog #2135.37)	\$2,849.00	\$99.00
Accessories (Optiona	al)		
2135.35	Test Kit for 3-Point testing (includes two 150 ft color-coded leads on spools (red/blue), one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)	\$ 449.00	-
2135.36	Test Kit for 4-Point testing (includes two 300 ft color-coded leads on spools (red/blue), two 100 ft color-coded leads (hand-tied green/black), four 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)	\$ 549.00	-
2135.37	Test Kit for 4-Point testing (includes two 500 ft color-coded leads on spools (red/blue), two 100 ft color-coded leads (hand-tied green/black), one 30 ft lead (green), four 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)	\$ 649.00	-
2135.38	Ground Test Kit for 3-Point testing (Supplemental for 4-Point testing – includes two 100 ft color-coded leads (hand-tied green/black), one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes and soft carrying bag)	\$ 249.00	-

Ground Resistance Tester Models 4620 & 4630



SPECIFICATIONS				
MODELS	4620	4620 4630		
ELECTRICAL				
Range	20Ω	20	0Ω	2000Ω
Measurement Range	0.00 to 19.99Ω	20.0 to	199.9Ω	200 to 1999Ω
Resolution	10mΩ	100	mΩ	1Ω
Open Voltage	≤42V peak	≤42V	peak	≤42V peak
Resistance Measurement Frequency	128Hz square wave	128Hz square wave 128Hz squ		128Hz square wave
Test Current	10mA	1r	1mA 0.1mA	
Accuracy	±2% of Reading ± 1ct	±2% of Re	% of Reading \pm 1ct \pm 2% of Reading \pm	
Auxiliary Electrode Influence Max Res. in Current Circuit Max Res. in Voltage Circuit	3kΩ 50kΩ	30kΩ 50kΩ 50kΩ 50kΩ		50kΩ 50kΩ
Response Time	Approximately four to	eight seco	nds for a sta	bilized measurement
Withstanding Voltage		250Vac o	r 100Vpc	
Power Source	Alkaline recommended Rechargeabl		/230V 50/60Hz hargeable 9.6V, NiMH battery pack	
Battery Life	>2000 15-second measurements; LO BAT indication on LCD			indication on LCD
Fuse Protection	0.1A, >250V, 0.25 x 1.25"; 30kA Interrupt Capacity			

Features

- Measures soil resistivity (4-Point)
- Measures ground resistance (2- and 3-Point) Fall-of-Potential method
- Step voltage tests and touch potential measurements
- Auto-Ranging: automatically selects the optimum resistance range and test current
- Designed to reject high levels of noise and interference
- Extremely simple to operate: connect - press - read
- LED on faceplate informs operator of high input noise, high auxiliary rod resistance and fault connections
- Large easy-to-read backlit display
- Battery powered (Model 4620)
- AC powered with rechargeable NiMH battery pack (Model 4630)
- Rugged dustproof and rainproof field case
- Can also be used for continuity tests on bonding
- Color-coded terminals

Test Kit for 3-Point testing includes two 150 ft color-coded leads on spools (red and blue), one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs, 100 ft tape measurer and carrying bag.

Catalog #2135.35

Test Kit for 4-Point testing includes two 300 ft color-coded leads on spools (red and blue), two 100 ft color-coded leads (green and black), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs, 100 ft tape measurer and carrying bag. Catalog #2135.36

Test Kit for 4-Point testing includes two 500 ft color-coded leads on spools (red and blue), two 100 ft color-coded leads (green and black), one 30 ft lead (green), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs, 100 ft tape measurer and carrying bag. Catalog #2135.37

See page 23 for Ground Testing kit images.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.43	Ground Resistance Tester Model 4620 (Digital, 4-Point, Battery Powered)	\$1,265.00	\$ 94.00
2130.44	Ground Resistance Tester Model 4630 (Digital, 4-Point, Rechargeable Battery)	\$1,795.00	\$ 94.00
2135.19	Ground Resistance Tester Model 4620 Kit – 150 ft (Model 4620 and Catalog #2135.35)	\$1,669.00	\$105.00
2135.20	Ground Resistance Tester Model 4620 Kit – 300 ft (Model 4620 and Catalog #2135.36)	\$1,769.00	\$105.00
2135.21	Ground Resistance Tester Model 4620 Kit – 500 ft (Model 4620 and Catalog #2135.37)	\$1,869.00	\$105.00
2135.22	Ground Resistance Tester Model 4630 Kit – 150 ft (Model 4630 and Catalog #2135.35)	\$2,199.00	\$105.00
2135.23	Ground Resistance Tester Model 4630 Kit – 300 ft (Model 4630 and Catalog #2135.36)	\$2,299.00	\$105.00
2135.24	Ground Resistance Tester Model 4630 Kit – 500 ft (Model 4630 and Catalog #2135.37)	\$2,399.00	\$105.00
Accessories (Option	al)		
2130.60	Tape Measure (100 ft)	\$ 34.95	-
2135.35	Test Kit for 3-Point testing – 150 ft (see descriptions above for details)	\$ 449.00	-
2135.36	Test Kit for 4-Point testing – 300 ft (see descriptions above for details)	\$ 549.00	-
2135.37	Test Kit for 4-Point testing – 500 ft (see descriptions above for details)	\$ 649.00	-
2135.38	Ground Test Kit for 3-Point testing (Supplemental for 4-Point testing – includes two 100 ft color-coded leads, one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes and soft carrying bag) (see descriptions above)	\$ 249.00	-
2130.59	Calibration checker – 25Ω for Models 3620, 3640, 4500, 4610, 4620 and 4630	\$ 54.95	-

Features

- Measures soil resistivity (4-Point) (Model 4610)
- · Measures ground resistance (2- and 3-Point) Fall-of-Potential method
- Large analog display (Model 3620)
- · Large LCD digital display (Models 3640 and 4610)
- · Designed to reject high levels of noise and interference
- Auto-Ranging: automatically selects the optimum range (Models 3640 and 4610)
- Battery powered
- Extremely simple to operate: connect press- read
- · Error indicator lights
- · Rugged dustproof and rainproof case
- Color-coded terminals and lead identification



Ground Resistance Tester Models 3620, 3640 & 4610



All individual units include soft
carrying case and user manual.

SPECIFICATIONS					
MODELS	3620	3640		4610	
Types of Measurements	2- and 3-Point	2- and 3-Po	int	2-, 3-, and 4-Point	
Display	Analog	Digital			Digital
Soil Resistivity Test	No	No			Yes
Measurement Ranges	0.5 to 1000Ω			0Ω: o 199Ω	2000Ω : 200 to 1999Ω
Resolution	_	10mΩ 100		OmΩ	1Ω
Test Current	10mA	10mA 1		mA	0.1mA
Open Voltage	≤24V peak ≤42V peak				
Operating Frequency		128Hz square	wave		
Accuracy	±5% of Reading + 0.1% scale length	±2% of Reading	j ± 1ct	±3% of	Reading ± 3cts
Interference		ject high levels o DC, 50 to 60Hz, h			tage
Power Source		Eight 1.5V AA ba	atteries		
Battery Life	Approx. 1680 15-second Approx. 1800 15-second measurement measurements		asurements		
Low Battery Indication	Yes				
Fuse Protection	High breaking capacity, 0.1A, >250V				

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2114.90	Ground Resistance Tester Model 3620 (Analog, 3-Point)	\$ 759.00	\$ 94.00
2114.92	Ground Resistance Tester Model 3640 (Digital, 3-Point)	\$ 795.00	\$ 94.00
2114.94	Ground Resistance Tester Model 4610 (Digital, 4-Point)	\$1,045.00	\$ 94.00
2135.10	Ground Resistance Tester Model 3620 Kit – 150 ft (Model 3620 and Catalog #2135.35)	\$1,159.00	\$105.00
2135.11	Ground Resistance Tester Model 3620 Kit – 300 ft (Model 3620 and Catalog #2135.36)	\$1,259.00	\$105.00
2135.12	Ground Resistance Tester Model 3620 Kit – 500 ft (Model 3620 and Catalog #2135.37)	\$1,359.00	\$105.00
2135.13	Ground Resistance Tester Model 3640 Kit – 150 ft (Model 3640 and Catalog #2135.35)	\$1,175.00	\$105.00
2135.14	Ground Resistance Tester Model 3640 Kit – 300 ft (Model 3640 and Catalog #2135.36)	\$1,275.00	\$105.00
2135.15	Ground Resistance Tester Model 3640 Kit – 500 ft (Model 3640 and Catalog #2135.37)	\$1,375.00	\$105.00
2135.16	Ground Resistance Tester Model 4610 Kit – 150 ft (Model 4610 and Catalog #2135.35)	\$1,449.00	\$105.00
2135.17	Ground Resistance Tester Model 4610 Kit – 300 ft (Model 4610 and Catalog #2135.36)	\$1,549.00	\$105.00
2135.18	Ground Resistance Tester Model 4610 Kit – 500 ft (Model 4610 and Catalog #2135.37)	\$1,649.00	\$105.00
2130.59	Calibration checker – 25Ω for Models 3620, 3640, 4500, 4610, 4620 and 4630	\$ 54.95	_

Clamp-On Ground Resistance Tester Models 3711 & 3731



Model 3731 US Patent No. 362,639







Features

- Simple and fast clamp-on operation no leads, no auxiliary rods or spacing requirements
- Direct reading of ground resistance from 0.1 to 1200Ω
- Direct reading of continuity and ground loop resistance
- Direct reading of ground leakage or phase current from 1mA to 30Arms
- Jaw design with large 1.25" (32mm) window accommodates up to 1000kcmil cables
- Auto-Off for power management
- Alarm function with adjustable set point and buzzer for quick field checks (Model 3731)
- Memory function to store 99 field measurements for later retrieval and analysis (Model 3731)
- Rugged Lexan® head and body construction resists breakage
- Alarm settings and stored memory information saved during shutdown (Model 3731)
- Designed to EN 61010-1, Cat. III safety standards
- · Patented design

SPECIFICATIONS					
MODELS	3711 & 3731				
ELECTRICAL					
Ground Resistance	Measurement Range	Resolution	Accuracy (% of Reading)		
	0.1 to 1.0 Ω	0.01Ω	$\pm (2\% \pm 0.02\Omega)$		
	1.0 to 50.00Ω	0.1Ω	$\pm (1.5\% \pm 0.1\Omega)$		
Auto-Ranging	50.0 to 100.0Ω	0.5Ω	$\pm (2.0\% \pm 0.5\Omega)$		
0.01 to 1200Ω	100 to 200Ω	1Ω	$\pm (3.0\% \pm 1\Omega)$		
	200 to 400Ω	5Ω	$\pm (6\% \pm 5\Omega)$		
	400 to 600Ω	10Ω	$\pm (10\% \pm 10\Omega)$		
	600 to 1200Ω	50Ω	25% of Reading $\pm 50\Omega$		
Current Measurement	1 to 299mA	1mA	±(2.5% + 2mA)		
Auto-Ranging	0.300 to 2.999A	0.001A	±(2.5% + 2mA)		
1mA to 30.00Arms	3.00 to 29.99A	0.01A	±(2.5% + 20mA)		
Resistance Measurement Frequency	2403Hz				
Current Measurement Frequency	47 to 800Hz				
Current Overload	OL displayed above 29.99Arms				
Power Source	9V Alkaline battery; Battery life: Eight hours or approximately 1000 measurements of 30 seconds				

FEATURES & FUNCTIONS				
MODELS	3711	3731		
Ohms Range	✓	✓		
Arms Range	✓	✓		
Hold Function	✓	✓		
Self Test	✓	✓		
Auto-Off	✓	✓		
Battery Life Indicator	✓	✓		
Noise Indicator	✓	✓		
Open Jaw Indicator	✓	✓		
Closed Loop Indicator	✓	✓		
Multi-Tone Beeper	/	/		
Alarm Function	_	/		
Memory (Logging)	<u>-</u>	1		



Models 3711 and 3731 include calibration loop, battery, hard carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.60	Ground Resistance Tester Model 3711 (Clamp-On)	\$1,545.00	\$ 98.00
2117.61	Ground Resistance Tester Model 3731 (Clamp-On with memory and alarm)	\$1,745.00	\$ 98.00



Features

- Hand-held LAN Cable Mapping and Troubleshooting Tester
- Indicates all common wiring faults including split pairs, shorts, opens, reversed pairs and crossed wires
- · Unique graphical and digital display of fault information and length
- Active remote unit indicates Pass/Fail by Green/Red LED during the test
- Indicates distances to opens and shorts and identifies location
- Display fault location up to 500 ft or 150m (selectable)
- · Built-in tone generator for tracing and locating cables
- Built-in service check function to detect telephone, 10BaseT, 100Mbit+ and Token Ring
- Visual and audible warning of live telephone network voltages
- Works with all category cables
- Rugged design weighs less than 12 oz (350g)
- · Large high-visibility blue electroluminescent backlit display
- Complete with remote unit and mini patch leads
- Active remote identifiers indicate Pass/ Fail at remote end using Green/Red LED
- Up to 16 unique remote identifiers available
- · Works with TIA 568A/B, USOC and ISDN wiring schemes

Tone Receiver/Cable Tracer Model TR03 is available as an accessory (see page 26)



Wire Mapper Pro® **LAN & Cable Tester Model CA7028**



The only wire-mapper in its class with graphical and digital display of fault type and fault location

Model CA7028

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SPECIFICATIO	NS
MODEL	CA7028
MEASUREMENTS	
Range	500 ft or 150m (selectable)
Accuracy	±5%
Cable Type	UTP, STP, FTP and SSTP
Faults Indicated	Short Circuit Pair, Open Circuit Wire, Short Between Pairs, Split/Cross Pairs, Pair Reversals, Shield Continuity
Fault Location	Near end, remote end, or distance to fault
Fault Display	All fault and setting info displayed textually and graphically
Wiring Schemes	TIA 568A/B, USOC and ISDN
Service Indication	Telephone, 10BaseT, 100Mbit+, Token Ring
Voltage Warning	Audible and visual warning of TNV (Telecom Network Voltage)
Test Inhibit	Inhibits testing in the presence of live voltages
Tone Generator	Oscillating 810 to 1110Hz
Power Source	Four 1.5V AA Alkaline batteries
Display Backlight	Blue electroluminescent
Remote Display	Green/Red Pass/Fail LED
Auto-Off	After three minutes
Weight	Main unit: 12 oz (350g); Remote unit: 1.5 oz (40g)

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2127.82	Wire Mapper Pro® Model CA7028 (LAN Cable Tester)	\$495.00	-
Accessories (Optional)			
2127.76	Tone Receiver/Cable Tracer Model TR03	\$ 59.00	-
2127.90	Wire Mapper Pro [®] Remote IDs (#2 − 5)	\$295.00	-
2127.91	Wire Mapper Pro® Remote IDs (#6 − 9)	\$295.00	-

Fault Mapper®

Cable Length Meter & Fault Locator

Alphanumeric TDR Model CA7024

Finds opens, shorts and cable length



Model CA7024



SPECIFICATIONS				
MODEL	CA7024			
MEASUREMENTS				
Range @ Vp = 70%	6000 ft or 2000m (selectable)			
Resolution	0.1 ft up to 100 ft, then 1 ft (0.1m up to 100m, then 1m)			
Accuracy	±2% of Reading			
Minimum Cable Length	12 ft (4m)			
Cable Library	Built-in, user selectable and user programmable			
Velocity of Propagation (Vp)	Adjustable from 0 to 99%			
Output Pulse	5V (peak to peak) into open circuit; nanosecond rise Step Function			
Output Impedance	Automatic compensation			
Display Resolution	128 x 64 pixel graphical LCD			
Tone Generator	Oscillating 810 to 1110Hz			
Voltage Warning	Triggers at >10Vac/dc			
Power Source	Four 1.5V AA Alkaline batteries			
Auto-Off	After three minutes			
Weight	12 oz (350g)			

Features

- Hand-held Cable Length Meter and Fault Locator
- Detects opens and shorts and the distance to them from one end of the cable
- Measure cable length up to 6000 ft or 2000m (selectable)
- Automatic cable impedance compensation
- Built-in library of most common cables and their Velocity of Propagation (Vp)
- Manual selection of Vp for all cables not found in library
- User programmable cable library with 15 storage positions
- Vp setting displayed along with length and cable type (if in library)
- Built-in tone generator for tracing and locating cables
- Large high-visibility blue electroluminescent backlit display

Tone Receiver/Cable Tracer Model TR03:

- Compatible with Models CA7024, CA7026 and CA7028
- One button operation
- Volume control
- Audio output



Model CA7024 includes BNC pigtail cable with alligator clips, four 1.5V AA batteries, soft carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2127.80	Fault Mapper® Model CA7024 (Cable Length Meter & Fault Locator – Alphanumeric TDR)	\$495.00	-
Accessories (Optional)			
2127.76	Tone Receiver/Cable Tracer Model TR03	\$ 59.00	-



Model TR03

Fault Mapper Pro® Telephone/Coaxial/Parallel

Cable Tester Graphical TDR

Graphical TDR

FAULT MAPPER PRO® MODEL CA7026

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TEST /

Model CA7026

Model CA7026 Maps and pinpoints

the locations of errors in ethernet cables terminated with RJ-45 connectors

Features

- Hand-held Graphical TDR (Time Domain Reflectometer)
- · Detects opens, shorts, taps, faulty taps, bridge taps, splitters, high resistance, wet cables, splices and more
- Identifies impedance mismatches
- Indicates cable faults and terminations up to 11,700 ft or 3500m (selectable)
- · Works with twisted pair, parallel and coaxial cable
- · Selectable cable impedance $(50\Omega, 75\Omega, 100\Omega)$
- Over-voltage protection up to 250V
- Adjustable cursor assists in locating faults and termination
- · Built-in tone generator for tracing and locating cables
- Auto-Ranging scale
- Large high-visibility blue electroluminescent backlit display

Tone Receiver/Cable Tracer Model TR03 is available as an accessory (see page 26)



Model CA7026 includes BNC pigtail cable with alligator clips, four 1.5V AA batteries, soft carrying case and user manual.

	NO.	
SPECIFICATIO	NS	
MODEL	CA7026	
MEASUREMENTS		
Range @ Vp = 70%	670, 1470, 2900, 5830 and 11,700 ft (220, 440, 870, 1750 and 3500m) auto-ranging	
Resolution	Approximately 1% of selected range	
Accuracy	±1% of range	
Range Selection	Automatic range selection against cursor position	
Minimum Cable Length	12 ft (4m)	
Sensitivity	Minimum 3 pixel return on a fault at 6000 ft (2km)	
Velocity of Propagation (Vp)	Adjustable from 0 to 99% in 1% steps	
Output Pulse	+5V into an open circuit or +1.5V into 50 Ω load; 25ns min to 2.15 μ s dependent on range	
Cable Impedence	Selectable between 50, 75 and 100 Ω	
Display Resolution	128 x 64 pixel graphical LCD	
Tone Generator	Oscillating 810 to 1110Hz	
Scan Rate	Single shot or 6.7 pulses per second (selectable)	
Power Source	Four 1.5V AA Alkaline batteries	
Auto-Off	After three minutes	
Weight	12 oz (350g)	

CE

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2127.81	Fault Mapper Pro® Model CA7026 (Telephone Cable Tester/Graphical TDR)	\$795.00	-
Accessories (Optional)			
2127.76	Tone Receiver/Cable Tracer Model TR03	\$ 59.00	-



Sentinel[®] Data Loggers Voltage & Current



Features

- Three- and four-channel voltage and current loggers
- True RMS measurements
- · Low-cost, self-contained and portable
- Differential three-phase inputs (Voltage Loggers)
- · Three programmable storage modes
- Programmable data storage rate
- Integral flexible current probes for three-phases (Current Loggers)
- Measures up to 3000A (Current Loggers)
- Stores up to 480,000 points (1MB)
- 64 samples per cycle
- Includes DataView® software for data storage, real-time display, analysis and report generation
- Isolated USB communication
- 600V Cat. III

SPECIFICATIONS	•							
MODELS	SDL V301	SDL V401	SDL A301	SDL A302	SDL A303	SDL A304	SDL A401	SDL A402
ELECTRICAL								
Number of Channels	Three	Four	Three	Three	Three	Three	Four	Four
Input Termination	Recessed banana jacks	Recessed banana jacks	Hard-wired flexible CTs	Hard-wired flexible CTs	Hard-wired flexible CTs	Hard-wired flexible CTs	BNC	BNC
Voltage Range	5 to 600Vac 0 to 850Vdc	5 to 600Vac 0 to 850Vdc	-	-	-	-	-	-
Current Range	-	-	5 to 1000A	15 to 3000A	5 to 1000A	15 to 3000A	5 to 1000A or 15 to 3000A, sensor dependent	Probe dependant
Resolution	0.1V	0.1V	0.1A	0.25A	0.1A	0.25A	0.25A	Probe dependent
Accuracy		iVac/dc: ading + 0.6V)	±(1% of Reading + 1.5A)	\pm (1% of Reading + 1.5A)	±(1% of Reading + 1.5A)	±(1% of Reading + 1.5A)	±(1% of Reading + 1.5A)	Probe dependent
	85 to 600Vac/850Vac: ±(0.25% of Reading + 0.6V)							
Sample Rate				64 samp	les/cycle			
Storage Rate			F	rogrammable from	250ms to 12 hour	S		
Recording Method			Stop when	full, FIFO, and Exte	nded Recording Mo	de (XRM™)*		
Memory Capacity				1MB, stores 48	0,000 readings			
Communication			l	JSB 2.0 optically is	olated to 5500Vrms	3		
Controls			One butto	n to turn logger on	off and start/stop	recording		
Indicators			F	Red, yellow and gre	en status indicator	S		
Power Source	Four 1.5V C Alkaline batteries	AC power/ rechargeable NiMH batteries	Four 1.5V C Alkaline batteries	Four 1.5V C Alkaline batteries	AC power/ rechargeable NiMH batteries	AC power/ rechargeable NiMH batteries	AC power/ rechargeable NiMH batteries	AC power/ rechargeable NiMH batteries
Battery Life**					Power ride through 10 hrs			
MECHANICAL								
Protection Index	IP50	IP50	IP50	IP50	IP50	IP50	IP50	IP50
Dimensions	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"	6.73 x 4.76 x 2.17"
Weight	1.8 lbs (0.8kg)	1.8 lbs (0.8kg)	3.2 lbs (1.4kg)	3.2 lbs (1.4kg)	3.2 lbs (1.4kg)	3.2 lbs (1.4kg)	3.2 lbs (1.4kg)	3.2 lbs (1.4kg)

^{*}Extended Recording Mode (XRM™)

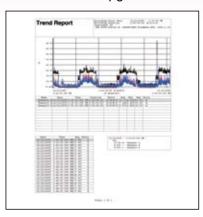
This unique recording mode provides the opportunity to continuously record over long periods of time by reducing the stored samples of the oldest data and maintaining matching resolution for the newest data. Each time the memory fills up using XRMTM every other of the oldest stored samples is discarded making room for newer samples. This process continues until the recording is manually stopped.

**Dependent on sample rate.



Features

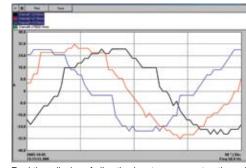
- · Display and analyze real-time data on your PC
- · Configure all data logger functions and parameters from your PC including sample rate, recording length, channel configuration and more
- · Create and store a complete library of configurations that can be uploaded to the logger as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- · Download, display and analyze recorded data
- · Display waveforms, trend graphs, harmonics and text summaries
- Create custom views and reports
- · Print reports using standard or custom templates you design
- Free software upgrades





DataView[®] Software for Sentinel® Loggers





Real time display of all active inputs on computer through DataView® software.

SENSORS COMPATIBLE WITH MODEL SDL-A401	
AmpFlex® SDL-1000A - 24" with BNC output	Cat. #2129.00
AmpFlex® SDL-1000A - 36" with BNC output	Cat. #2129.01
AmpFlex® SDL-3000A - 24" with BNC output	Cat. #2129.02
AmpFlex® SDL-3000A - 36" with BNC output	Cat. #2129.03
CURRENT PROBES COMPATIBLE WITH MODEL SDL-A	402
AC Model MN103 (Lead - 1mV/mA - 1A max & 1 mV/A - 100A max)	Cat. #1031.02
AC Model MN114 (Lead - 100mV/A - 10A max)	Cat. #2110.71
AC Model MN251 (Lead - 1mV/A - 100A max)	Cat. #2115.77
AC Model MN261 (BNC - 100mV/A - 10A max; 10mV/A - 100A max)	Cat. #2115.82
AC Model MN307 (Lead - 100mV/AAC - 12A max)	Cat. #2116.23
AC Model MN375 (Lead - 100mV/A - 10A max)	Cat. #2115.41
AC/DC Model SL201 (Lead - 1mV/mA - 1A max & 1mV/A - 150A max)	Cat. #1201.40
AC/DC Model SL206 (Lead - 1mV/mA - 1A max & 10mV/A - 80A max)	Cat. #1201.45
AC/DC Model SL261 (BNC - 100mV/mA - 10A peak & 10mV/A - 100A peak)	Cat. #1201.51
AC Model MD301 (Lead - 1mVDC/AAC - 500A max)	Cat. #1201.07
AC Model MD314 (Lead - 1mV/A - 500A max)	Cat. #2110.75
AC Model SR652 (Lead - 1mV/A - 1000A max)	Cat. #2113.46
AC Model SR661 (BNC - 100mV/A-10A; 10mV/A-100A; 1mV/A-1000A max)	Cat. #2113.49
AC Model SR752 (Lead - 1mV/A - 1000A max)	Cat. #2116.32
AC Model SR759 (Lead - 1/10/100/1000A/1V)	Cat. #2116.33
AC/DC Model MR461 (BNC - 10mV/A - 60A peak & 1mV/A - 600A peak)	Cat. #1200.72
AC/DC Model MR561 (BNC - 10mV/A - 150A peak & 1mV/A - 1500A peak)	Cat #1200.73

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2134.10	Sentinel® Voltage Logger Model SDL V301 (3-Channel, 600Vac, three color-coded leads and alligator clips, four C-cell batteries)	\$ 695.00	\$94.00
2134.11	Sentinel® Voltage Logger Model SDL V401 (4-Channel, 600Vac, four color-coded leads and alligator clips, rechargeable NiMH batteries, 120V US wall charger)	\$ 945.00	\$98.00
2134.15	Sentinel® Current Logger Model SDL A301 (3-Channel, 1000AAc, 24" AmpFlex® attached, four C-cell batteries)	\$1,095.00	\$98.00
2134.16	Sentinel® Current Logger Model SDL A302 (3-Channel, 3000AAc, 24" AmpFlex® attached, four C-cell batteries)	\$1,295.00	\$98.00
2134.17	Sentinel® Current Logger Model SDL A303 (3-Channel, 1000AAc, 24" AmpFlex® attached, rechargeable NiMH batteries, 120V US wall charger)	\$1,245.00	\$98.00
2134.18	Sentinel® Current Logger Model SDL A304 (3-Channel, 3000AAc, 24" AmpFlex® attached, rechargeable NiMH batteries, 120V US wall charger)	\$1,445.00	\$98.00
2134.19	Sentinel® Current Logger Model SDL A401 (4-Channel, four AmpFlex® sensors with BNC Output (not included), rechargeable NiMH batteries, 120V US wall charger)	\$ 945.00	\$98.00
2134.20	Sentinel® Current Logger Model SDL A402 (4-Channel, four 1V current probes with BNC Output (not included), rechargeable NiMH batteries, 120V US wall charger)	\$ 945.00	\$98.00
2134.21	Sentinel® Current Logger Model SDL A401 Kit (4-Channel, three 1000A 24" AmpFlex® with BNC Output, rechargeable NiMH batteries, 120V US wall charger, carrying bag)	\$1,625.00	\$98.00
2134.22	Sentinel® Current Logger Model SDL A401 Kit (4-Channel, four 1000A 24" AmpFlex® with BNC Output, rechargeable NiMH batteries, 120V US wall charger, carrying bag)	\$1,825.00	\$98.00
2134.23	Sentinel® Current Logger Model SDL A401 Kit (4-Channel, three 3000A 36" AmpFlex® with BNC Output, rechargeable NiMH batteries, 120V US wall charger, carrying bag)	\$1,795.00	\$98.00
2134.24	Sentinel® Current Logger Model SDL A401 Kit (4-Channel, four 3000A 36" AmpFlex® with BNC Output, rechargeable NiMH batteries, 120V US wall charger, carrying bag)	\$1,995.00	\$98.00

^{*} See pages 54, 56 and 57 for probes that are used with the Sentinel® Model SDL-A402



Simple Logger® II TRMS Clamp-On Current Model CL601



Model CL601

*Extended Recording Mode (XRM™)

This unique recording mode provides the opportunity to continuously record over long periods of time by reducing the stored samples of the oldest data and maintaining matching resolution for the newest data. Each time the memory fills up using XRM™ every other of the oldest stored samples is discarded making room for newer samples. This process continues until the recording is manually stopped.

Features

- 0 to 600Arms
- True RMS measurements
- · Self contained, no exposed connections
- · Overload indication
- Optically isolated USB 2.0 output (cable included)
- One button operation
- Alarm function
- 5 LED indicators quickly and clearly display Logger status
- Includes DataView® software for data storage, real-time display, analysis and report generation
- 300V Cat. IV, 600V Cat. III

Applications

- · Machine load monitoring
- · HVAC troubleshooting
- Load profiling
- · Electrical troubleshooting

SPECIFICATIONS				
MODEL	CL601			
ELECTRICAL				
Channels	One			
Input	Split CT – AC Current			
Measurement Range	0 to 600Aac			
Resolution	0.1A			
Accuracy (50/60Hz)	0 to 5A: unspecified 5 to 50A: ±(1% of Reading + 1A) 50 to 400A: ±(1% of Reading + 0.5A) 400 to 600A: ±(3% of Reading + 1A)			
Sample Rate	64 samples/cycle			
Storage Rate	Programmable from 125ms to 1 day			
Storage Modes	Start/Stop, FIFO and Extended Recording Mode* (XRM™)			
Recording Length	15 minutes to 8 weeks, programmable using DataView®			
Memory	240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.			
Communication	USB 2.0 optically isolated			
Power Source	2 x 1.5V AA-cell alkaline batteries			
Battery Life	100 hours to >45 days (dependent on sample rate and recording length)			
MECHANICAL				
Dimensions	9.25 x 4.0 x 1.63" (235 x 102 x 41mm)			
Max Conductor Size	1 conductor - Ø 1.65" (42 mm) 2 conductor - Ø 1.00" (25.4 mm) ea			
Weight (with battery)	17.1 oz (485 grams)			
Case	UL94-V0			
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)			
Shock	IEC 68-2-27 (30G)			
Drop	IEC 68-2-32 (1m)			

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.01	Simple Logger® II Model CL601 (1-Channel, TRMS Clamp-On, 600Aac)	\$469.00	\$72.00

Features

- Compatible standard current probes with voltage output and BNC connection (see chart on page 57 for compatible Current Probes)
- 2 inputs (Model L102)
- · 64 samples per cycle
- · Programmable storage rates from 8 every second to 1 every day
- · 3 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- Powered by standard Alkaline batteries
- · Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display Logger status
- Includes DataView® software FREE for data storage, real-time waveform display, analysis and report generation
- Isolated USB communication
- 50V Cat III

Applications (Model L101)

- Load profiling
- Fault current detection
- Intermittent problem detection
- Demand recording
- · Neutral current monitoring
- Harmonic current recording using DataView® software
- · Metering CT resizing

Applications (Model L102)

- · Split phase load monitoring
- Neutral and ground current monitoring
- · Intermittent problem detection
- Harmonic current monitoring using DataView® software
- · Machine load monitoring







Models L101 & L102

SPECIFICATIONS				
MODELS	L101	L102		
ELECTRICAL				
Channels	One	Two		
Input Connection	BNC	One BNC connector per channel		
Measurement Range	0 to 1V (See page 57 for c	0 to 1V (See page 57 for compatible Current Probes)		
Resolution	0.1	mV		
Accuracy (50/60Hz)	10 to 50mV: ±(0.5%	0 to 10mV: unspecified 10 to 50mV: ±(0.5% of Reading + 1mV) 50 to 1000mV: ±(0.5% of Reading + 0.5mV)		
Sample Rate	64 samp	les/cycle		
Storage Rate	Programmable from 125ms to 1 day			
Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)			
Recording Length	15 minutes to 8 weeks, programmable using DataView®			
Memory	240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.			
Communication	USB 2.0 optically isolated			
Power Source	2 x 1.5V AA-cell alkaline batteries			
Battery Life	100 hours to >45 days (dependent on sample rate and recording length)			
MECHANICAL				
Dimensions	5.38 x 2.75 x 1.28" (136 x 70 x 32mm)			
Max Conductor Size	Current probe dependent			
Weight (with battery)	6.4 oz (181 grams)			
Case	UL94-V0			
Vibration	IEC 68-2-6 (1.5r	IEC 68-2-6 (1.5mm, 10 to 55Hz)		
Shock	IEC 68-2-	IEC 68-2-27 (30G)		
Drop	IEC 68-2-32 (1m)			

CATALOG NO.	DESCRIPTION	•	
		PRICE	NIST CALIBRATION
2126.02	Simple Logger® II Model L101 (1-Channel, TRMS 0 to 1Vac)	\$329.00	\$98.00
2126.03	Simple Logger® II Model L102 (2-Channel, TRMS 0 to 1Vac)	\$369.00	\$98.00



Simple Logger® II TRMS 600Vac/DC Model L261



Model L261

SPECIFICATIONS MODEL L261 **ELECTRICAL** Channels One **Input Connection** Two Recessed 4mm Banana Jacks Measurement Range 0 to 600V Resolution 0.1V Accuracy (50/60Hz) 0 to 5V: unspecified 5 to 50V: \pm (0.5% of Reading + 1V) 50 to 600V: \pm 0.5% of Reading + 0.5V) Sample Rate 64 samples/cycle **Storage Rate** Programmable from 125ms to 1 day Start/Stop, FIFO and Extended Recording Mode (XRM™) Storage Modes **Recording Length** 15 minutes to 8 weeks, programmable using DataView® Memory 240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed." Communication USB 2.0 optically isolated **Power Source** 2 x 1.5V AA-cell alkaline batteries **Battery Life** 100 hours to >45 days (dependent on sample rate and recording length) **MECHANICAL** Dimensions 4.94 x 2.75 x 1.28" (125 x 70 x 32mm) Weight (with battery) 6.4 oz (181 grams) Case UL94-V0 Vibration IEC 68-2-6 (1.5mm, 10 to 55Hz) Shock IEC 68-2-27 (30G) Drop IEC 68-2-32 (1m)

Features

- TRMS voltage recording up to 600VAC/DC
- 64 samples per cycle
- Programmable storage rates from 8 every second to 1 every day
- · 3 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- · Powered by standard Alkaline batteries
- · Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display Logger status
- Includes DataView® software FREE for data storage, real-time waveform display, analysis and report generation
- Isolated USB communication
- 300V Cat IV; 600V Cat III

Applications

- · Surge and Sag recording
- · Long term supply monitoring
- Industrial, commercial, residential monitoring
- Monitor voltage harmonics
- Find intermittent voltage problems
- · Machine monitoring



Model L261 includes set of two color-coded 5 ft Voltage Leads and color-coded Alligator clips (red/black) Cat. #2140.62

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.05	Simple Logger® II Model L261 (1-Channel, TRMS 600Vac)	\$349.00	\$98.00

Features

- · 2 input channels
- Voltage: 0 to 600Vac/dc TRMS
- Current: compatible with Voltage output current probes with voltage outputs (shown on page 57)
- 64 samples per cycle

SPECIFICATIONS

- · 3 user selectable storage modes
- Programmable storage rates from 8 every second to 1 every day
- Stores up to 240,000 measurements in non-volatile memory
- Powered by standard Alkaline batteries
- Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display Logger status
- Includes DataView® software FREE for data storage. real-time waveform display, analysis and report generation
- 300V Cat IV: 600V Cat III with a safety rated current probe attached

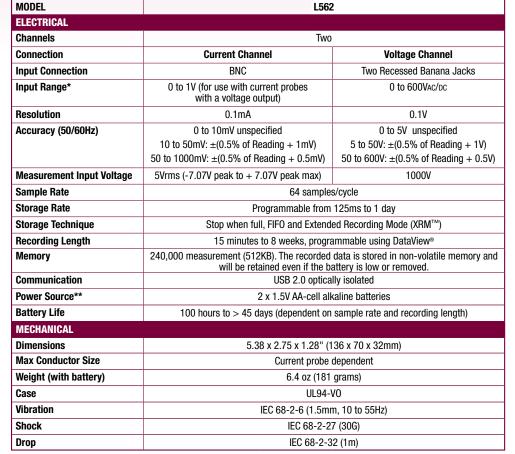




Model L562

Applications

- Single phase power monitoring
- Residential, commercial, industrial, troubleshooting
- · Find sags and surges
- Track energy usage





Model L261 includes set of two color-coded 5 ft Voltage Leads and color-coded Alligator clips (red/black) Cat. #2140.62

*The native measurement of the instrument is voltage. This voltage is scaled to display current corresponding to the users probe selection. This accuracy specification does not account for probe errors.

**A memory backup provides backup power while the batteries are being changed.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.35	Simple Logger® II Model L562 (TRMS Voltage & Current Module)	\$369.00	\$98.00



Simple Logger® II 4 to 20mADC Current Model L322 DC Voltage Model L432 F6



Model L322

SPECIFICATIONS			
MODELS	L322	L432	
ELECTRICAL			
Channels	Two		
Input Connection	Detachable t	erminal strip	
Measurement Range	nt Range 0 to 25mApc ±100mV/1V/10Vpc (so through DataView® sr		
Resolution	0.1mA	0.1mV - 1mV - 10mV	
Accuracy (DC and 50/60Hz)			
	_	0 to 10mV: unspecified 10 to 1000mV: ±(0.5% of Reading + 1mV)	
	_	0 to 100mV: unspecified 100mV to 10.00V: ±(0.5% of Reading + 10mV)	
Sample Rate	8 samples taken at storage interval		
Storage Rate	Programmable from 125ms to 1 day		
Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)		
Recording Length	15 minutes to 8 weeks, programmable using DataView®		
Memory	240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.		
Communication	USB 2.0 optically isolated		
Power Source	2 x 1.5V AA-cell alkaline batteries		
Battery Life	100 hours to >45 days (dependent on sample rate and recording length)		

Features

- 2 independent input channels
- 0 to 25mApc (Model L322)
- User-selectable ranges of 0 to 100mV; 0 to 1V and 0 to 10Vpc per channel (Model L432)
- Programmable storage rates from 8 every second to 1 every day
- 3 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- · Powered by standard Alkaline batteries
- · Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display Logger status
- Includes DataView® software FREE for data storage, real-time display, analysis and report generation
- 50V Cat III

Applications (Model L322)

- · Process control monitoring and troubleshooting
- Profile temperature, pressure, flow and other parameters directly
- · General purpose DC current monitoring
- · And many more

Applications (Model L432)

- · Circuit design troubleshooting
- · Sensor monitoring
- Battery testing
- · Power supply profiling

MODELS	L322	L432
MECHANICAL		
Dimensions	5.43 x 2.75 x 1.28" (138 x 70 x 32mm)	
Weight (with battery)	6.4 oz (181 grams)	
Case	UL94-V0	
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)	
Shock	IEC 68-2-27 (30G)	
Drop	IEC 68-2-32 (1m)	

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.06	Simple Logger® II Model L322 (4 to 20mApc Current Module)	\$329.00	\$98.00
2126.07	Simple Logger® II Model L432 (2-Channel, DC ±100mV/1V/10Vpc)	\$329.00	\$98.00

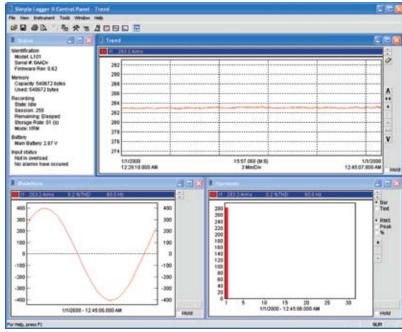


Features

- Display and analyze real-time data on your PC
- · Configure all data logger functions and parameters from your PC including sample rate, recording length, channel configuration and more
- · Create and store a complete library of configurations that can be uploaded to the logger as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonics (AC models) and text summaries
- Create custom views and reports
- Print reports using standard or custom templates you design
- Free software upgrades

Minimum System Requirements:

- Windows® 2000/XP/Vista
- 128MB of RAM for Windows® 2000 (256MB of RAM recommended) 256MB of RAM for Windows® XP 512MB of RAM for Windows® Vista
- 35MB of hard disk space (200MB recommended)
- CD-ROM drive

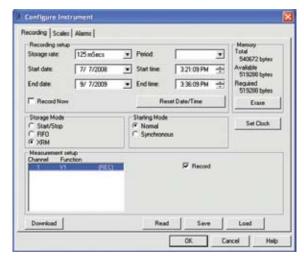


Real-time view of trend, waveform and status screens.

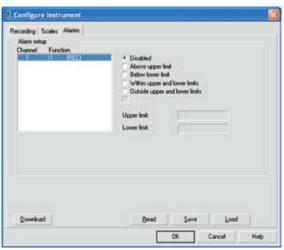
DataView® Software for Simple Logger® II







Quick and simple configuration of all functions and settings from one dialog box.



Configure all alarm functions with straightforward selections.



Simple Logger® II Thermocouple Model L642





Model L642				
SPECIFICATION	SPECIFICATIONS			
MODEL	L642			
ELECTRICAL				
Channels	Two			
Input Connection	Two miniature, thermocouple connectors			
Measurement Range:	°F (°C)			
J	-346 to +2192 (-210 to + 1200)			
K	-328 to +2501 (-200 to + 1372)			
T	-418 to +752 (-250 to + 400)			
N E	-328 to +2372 (-200 to + 1300)			
R B	-238 to 1742 (-150 to + 950) 32 to 3212 (0 to 1767)			
S	32 to 3212 (0 to 1767) 32 to 3212 (0 to 1767)			
Resolution	0.1° C/F up to 1000° C/F, 1° above 1000° C/F			
Accuracy	0.1% to 0.2% + 0.6° to 1°, depending on the range and T/C type			
Sample Rate	8 samples taken at storage interval			
Storage Rate	Programmable from 5s to 1 day			
Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)			
Recording Length	15 minutes to 8 weeks, programmable using DataView®			
Memory	240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.			
Communication	USB 2.0 optically isolated			
Power Source	2 x 1.5V AA-cell alkaline batteries			
Battery Life	100 hours to >45 days (dependent on sample rate and recording length)			
MECHANICAL				
Dimensions	4.94 x 2.75 x 1.28" (125 x 70 x 32mm)			
Weight (with battery)	7 oz (200 grams)			
Case	UL94-V0			
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)			
Shock	IEC 68-2-27 (30G)			
Drop	IEC 68-2-32 (1m)			

Features

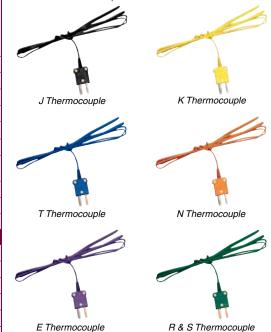
- 2 input channels
- User-selectable thermocouple types J, K, T, N, E, R, and S
- Programmable storage rates from 1 every 5 seconds to 1 every day
- 3 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- Powered by standard Alkaline batteries
- · Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display Logger status
- Includes DataView® software FREE for data storage, real-time display, analysis and report generation
- 50V Cat III

Applications

- HVAC monitoring
- · Process monitoring
- · Refrigeration monitoring
- · And many more

Optional Thermocouple Sensors

Please consult factory for more information on available thermocouples.



CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.08	Simple Logger® II Model L642 (Temperature Thermocouple Module)	\$349.00	\$98.00

Flexible Current Probe Logger **Model AL24-2500**

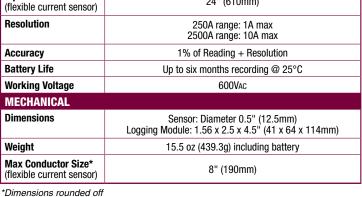
Features

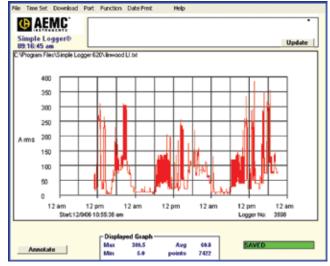
- True RMS measurements
- · Self contained, no exposed connections
- Stores up to 8,000 measurements
- · Weatherproof NEMA 4X, IP65 rated
- · Flexible sensor fits anywhere
- · Scale automatically selected in software
- · RS-232 isolated output
- Includes Simple Logger® software

- Load profiling
- · Machine load monitoring
- · Substation monitoring



SPECIFICATIONS			
MODEL	AL24-2500		
ELECTRICAL			
Number of Channels	One		
Input (switchable)	5 to 250 or 2500Arms		
Input Sensor (flexible current sensor)	24" (610mm)		
Resolution	250A range: 1A max 2500A range: 10A max		
Accuracy	1% of Reading + Resolution		
Battery Life	Up to six months recording @ 25°C		
Working Voltage	600Vac		
MECHANICAL			
Dimensions	Sensor: Diameter 0.5" (12.5mm) Logging Module: 1.56 x 2.5 x 4.5" (41 x 64 x 114mm)		
Weight	15.5 oz (439.3g) including battery		
Max Conductor Size* (flexible current sensor)	8" (190mm)		





Quickly and easily view and print recorded data with software provided.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2113.72	Simple Logger® Model AL24-2500 (RMS Current, 250/2500A, 24" AmpFlex®)	\$499.00	\$98.00



Lightmeter Models CA811 & CA813





Model CA811

Model CA813



CIE Photoptic Curve (%) 100 880 880 409.88 683 683 6846.4 409.88 683 6846.4 409.88 683 6846.4 409.88 683 6846.4 409.88 683 6846.4 409.88 683 6846.4 409.88 683 6846.4 409.88 683 6846.4 409.88 6846.4 409.88 685 6860 700 (nm) 6860 700 (nm) 6860 700 (nm)

Features

- · Easy one-hand operation
- Designed to measure a wide range of lighting types
- · Removable sensor for remote reading
- Measures in footcandles (fc) or lux
- · Cosine corrected
- Hold function
- Max function (Model CA811)
- Peak function (Model CA813)
- CIE photoptic (human eye) response
- · 2000-count backlit LCD
- · Lightweight and compact
- · Removable protective sensor cover
- Includes rugged, shockproof, protective, dirt resistant gray holster

Applications

- Testing for OSHA compliance in workplace, cleanroom and industrial settings
- Ambient testing for light-sensitive displays and archives in museums and art galleries

SPECIFICATION	SPECIFICATIONS				
MODELS	CA811	CA813*			
Range	20fc, 200fc, 2000fc, 20kfc	20fc, 200fc, 2000fc, 20kfc			
	20lux, 200lux, 2000lux, 20k lux	20lux, 200lux, 2000lux, 20k lux, 200k lux			
Display Resolution	0.01fc or 0.01lux	0.01fc or 0.01lux			
Sensor	Silicon photodiode	Silicon photodiode			
Spectral Response	CIE Photoptic Curve	CIE Photoptic Curve			
Accuracy 2856K Light Source Common Light Source	±3% of Reading ± 10cts ±18% of Reading ± 2cts	±3% of Reading ± 10cts ±11% of Reading ± 2cts			
Sample Rate	2.5 times per second, nominal 2.5 times per second nominal				
GENERAL	GENERAL				
Display	3½ digit liquid crystal di	splay (LCD), 2000-count			
Operating Temperature	32° to 122°F (0° t	o 50°C), <80% RH			
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery				
Polarity	Automatic				
Power Source	9V Alkaline battery				
Low Battery Indication	- +1 is displayed when battery voltage is low				
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)				
*Note: Model CAR13 offer	Approx. 7.55 oz (214g) Approx. 7.9 oz (224g) including battery				

*Note: Model CA813 offers higher sensitivity (200klux) and has a better spectral response to common light sources

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.20	Lightmeter Model CA811	\$119.00	\$350.00
2121.21	Lightmeter Model CA813	\$165.00	\$350.00



Sound Level Meter Model CA832

Features

- · Easy one-hand operation
- · Measures sound according to the sensitivity of the human ear
- · Max function
- Three measurement ranges from 35 to 130dB
- Accuracy ±1.5dB
- Two time weighting curves: S (slow) 550ms and F (fast) 55ms
- · Two frequency weighting curves: A and C
- · Auxiliary output for recording
- Tripod mountable
- 2000-count backlit LCD
- · Lightweight and compact
- · Includes rugged, shockproof, protective, dirt resistant gray holster

- Factories
- Schools, Libraries
- Airports
- Office environments & Studios
- Auditoriums
- Hospitals

SPECIFICATIONS			
MODEL	CA832		
MEASUREMENTS			
Measurement Range	35 to 80dB 50 to 100dB 80 to 130dB		
Measurement Rate	2.5 times per second		
Dynamic Range	50db		
Frequency Range	31.5 to 8000Hz		
Accuracy	±1.5dB		
Resolution	0.1dB		
Precision	±2.0dB		
Display	2000-count		
Sensor Type	0.5" electric (prepolarized) condenser microphone True RMS measurement with independent frequency weighting		
Applicable Standard	IEC 651 type 2/ANSI S 1.4 type 2/JIS C 1502		
Auxiliary Output	DC output: $10\text{mV}/dB - 50\Omega$ AC output: $1.0\text{Vrms} - 600\Omega$		
Frequency Weighting	Curves A and C		
Time Weighting	S (slow) and F (fast)		
GENERAL			
Display	3½ digit liquid crystal display (LCD), 2000-count		
Operating Temperature	32° to 122°F (0° to 50°C), 80% RH without condensation		
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery		
Power Source	9V Alkaline battery		
Low Battery Indication	- +1 is displayed when battery voltage is low		
Dimensions	9.33 x 2.38 x 1.5" (237 x 60.5 x 38mm)		
Weight	8.11 oz (230g) including battery		





CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.23	Sound Level Meter Model CA832	\$199.00	\$350.00

Thermo-Hygrometer Model CA846



SPECIFICATIONS			
MODEL	CA846		
MEASUREMENTS —	TEMPERATURE		
Measurement Range	-4° to 140°F or -20° to 60°C		
Display Resolution	0.1°F or 0.1°C		
Sensor	NTC Temperature Sensor		
Accuracy	-4° to 32°F: \pm 2°F or -20° to 0°C: \pm 1°C 32° to 140°F: \pm 1°F or 0° to 60°C: \pm 0.5°C		
MEASUREMENTS —	RELATIVE HUMIDITY		
Measurement Range	0 to 100% RH		
Display Resolution	0.1% RH		
Sensor	Capacitive Humidity Sensor		
Accuracy	$\pm 5.0\%$, 25°C, 10% to 90% RH $\pm 10.0\%$, 25°C, 0% to 10% RH, 90% to 100% RH		
GENERAL			
Display	3½ digit liquid crystal display (LCD), 2000-count		
Operating Temperature	32° to 122°F (0° to 50°C), 80% RH		
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery		
Polarity	Automatic		
Power Source	9V Alkaline battery		
Low Battery Indication	is displayed when battery voltage is low		
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)		
Weight	Approx. 7 oz (197g) including battery		

Features

- Easy one-hand operation
- Measures temperature in °F and °C
- Accurate NTC sensor
- Quick response RH sensor
- · Max and Hold functions
- 2000-count backlit LCD
- Lightweight and compact
- · Removable protective sensor cover
- · Includes rugged, shockproof, protective, dirt resistant gray holster

Applications

- Greenhouses
- · HVAC installation and maintenance
- Office environments
- Labs
- **Environmental studies**
- Weather monitoring
- Food distribution and storage
- Blood banks

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.24	Thermo-Hygrometer Model CA846 (NTC)	\$149.00	\$350.00

Moisture Meter Model CA847



SPECIFICATIONS			
MODEL	CA847		
MEASUREMENTS —	% H20		
Measurement Range	0 to 100%		
Display Resolution	6 to 23% and 24 to 100% RH		
Sensor	Capacitive Humidity Sensor		
Accuracy	±1 LED from 6 to 30% RH ±2 LEDs above 30% RH		
GENERAL			
Display	20 LEDs on 2 scales		
Operating Temperature	32° to 122°F (0° to 50°C), 80% RH		
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery		
Power Source	9V Alkaline battery		
Low Battery Indication	LED lights up when battery voltage is low		
Dimensions	7.68 x 2.38 x 1.5" (195 x 60.5 x 38mm)		
Weight	Approx. 5.6 oz (160g) including battery		

Features

- Easy one-hand operation
- Measurement range: to 100% of H2O
- Two 20-LED display scales: from 6 to 23% and 24 to 100%
- Replaceable electrodes
- Power ON/OFF automatically activated when protective cover is removed/installed
- Lightweight and compact
- · Removable protective sensor cover
- · Includes rugged, shockproof, protective, dirt resistant gray holster

- Measure moisture in wood products
- Plastic, sheetrock and concrete curing

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.25	Moisture Meter Model CA847	\$99.00	_

Thermometer Models CA861, CA863 & CA865

Features

- · Easy one-hand operation
- K thermocouple(s) included (Models CA861 and CA863)
- Accurate RTD sensor (Model CA865)
- Measures temperature in °F and °C
- 0.1° Resolution
- · Max and Hold functions
- 2000-count backlit LCD
- Lightweight and compact
- · Includes rugged, shockproof, protective, dirt resistant gray holster

- · Process control monitoring and troubleshooting
- · HVAC installation and maintenance
- · Chemical processing
- Food processing
- · Mold injecting and HVAC for temperature rise and fall (Model CA863)
- Indoor/outdoor differential temperature measurements (Model CA863)
- Plastics







Models CA861, CA863 & CA865



RTD sensor included with Model CA865

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K thermocouples included with Models CA861 and CA863

SPECIFICATIONS					
MODELS	CA861	CA863	CA865		
MEASUREMENTS					
Input	Single K thermocouple	Dual K thermocouple	RTD Sensor		
Temperature Scale	Fahrenheit or Celsius user-selectable	Fahrenheit or Celsius user-selectable	Fahrenheit or Celsius user-selectable		
Measurement Range			-58° to 199.9°F or -50° to 199.9°C		
Display Resolution	1°F or 1°C, 0.1°F or 0.1°C	1°F or 1°C, 0.1°F or 0.1°C	0.1°F or 0.1°C		
Sensor	K thermocouple	K thermocouple Dual Input	$\begin{array}{c} \text{Pt385/100}\Omega \text{ RTD} \\ \text{Temperature sensor (alpha 0.00385)} \end{array}$		
Accuracy (Instrument)	-40° to 1999°F: ±0.1% of Rdg ± 2°F -40° to 1350°C: ±0.1% of Rdg ± 1°C	-58° to 1999°F: $\pm 0.3\%$ of Rdg \pm 2°F -50° to 1000°C: $\pm 0.3\%$ of Rdg \pm 1°C 1000° to 1300°C: $\pm 0.5\%$ of Rdg \pm 1°C	±1°F (±0.05°C)		
Input Protection 24Vpc or 24Vrms 24Vpc or 24Vrms 24Vpc or 2		24Vpc or 24Vrms			
Sample Rate	2.5 times per second	2.5 times per second	2.5 times per second		
Input Connector	Accepts one standard miniature K thermocouple plug	Accepts two standard miniature K thermocouple plugs	Accepts standard 3-prong RTD plug		
GENERAL					

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GENERAL					
Display	3½	3½ digit liquid crystal display (LCD), 2000-count			
Operating Temperature		32° to 122°F (0° to 50°C), 80% RH			
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery				
Polarity	Automatic				
Power Source	9V Alkaline battery				
Low Battery Indication	- +1 is displayed when battery voltage is low				
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)				
Weight	Approx. 6.5 oz (185g) Approx. 6.4 oz (181g) Approx. 6.2 oz (175g				
	including battery	including battery	including battery		

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.26	Thermometer Model CA861 (K thermocouple)	\$79.00	\$78.00
2121.27	Thermometer Model CA863 (Dual K thermocouple)	\$99.00	\$78.00
2121.28	Thermometer Model CA865 (RTD)	\$89.00	\$78.00

Infrared Thermometer Models CA870, CA872 & CA876







Models CA870, CA872 & CA876

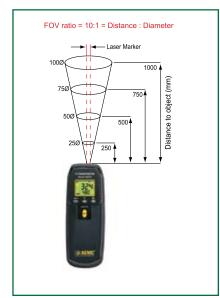
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SPECIFICATIONS				
MODELS	CA870	CA872	CA876	
MEASUREMENTS —	INFRARED			
Temperature Range	-4° to 500°F or -20° to 260°C	-4° to 500°F or -20° to 260°C	-4° to 1022°F or -20° to 550°C	
Display Resolution	1°F or 1°C	1°F or 1°C	1°F or 1°C	
Accuracy	±2% of Reading or ± 6°F (3°C)	±2% of Reading or ± 6°F (3°C)	±2% of Reading or ± 6°F (3°C)	
Response Time	One second	One second	One second	
Emissivity	Preset 0.95	Preset 0.95	Adjustable 0.10 to 1.00	
Sensor	Thermopile	Thermopile	Thermopile	
Optical Lens	Fresnal Lens	Fresnal Lens	Fresnal Lens	
Laser	_	<0.5mW (670nm)	<0.5mW (670nm)	
MEASUREMENTS —	K TYPE			
Temperature Range	-	-	-40° to 2000°F or -40° to 1350°C	
Display Resolution	_	-	1°F or 1°C or 0.1°F or 0.1°C (Auto)	
Sensor	-	-	K thermocouple	
Accuracy	-	-	-40° to 2000°F: ±0.1% of Reading ± 2°F -40° to 1350°C: ±0.1% of Reading ± 1°C	
GENERAL				
Display	3½ digit li	quid crystal display (LCD), 2	000-count	
Operating Temperature	32°	to 122°F (0° to 50°C), 80%	RH	
Storage Temperature	-4° to 140°F (-	20° to 60°C), 0 to 80% RH	without battery	
Polarity	Automatic			
Power Source		9V Alkaline battery		
Low Battery Indication	- +1 is disp	layed when battery voltage	is low	
Dimensions		2.38 x 1.5" (173 x 60.5 x 3		
Weight	Approx. 6.5 oz (185g) including battery	Approx. 6.4 oz (181g) including battery	Approx. 9 oz (255g) including battery	

Features

- · Easy one-hand operation
- · Non-contact infrared sensor
- Laser guide for precise aim (Models CA872 and CA876)
- · Measures temperature in °F and °C
- High 1022°F/550°C measurement (Model CA876)
- Fixed 0.95 emissivity (Models CA870 and CA872)
- Adjustable emissivity 0.1 to 1.00 (Model CA876)
- Auto-Hold function
- 2000-count backlit LCD
- · Lightweight and compact
- Removable protective laser cover (Models CA872 and CA876)
- Includes rugged, shockproof, protective, dirt resistant gray holster

- · Electrical troubleshooting
- · Food safety and processing
- · Automotive repair and maintenance
- · Marine maintenance and repairs
- · Test faulty motor winding insulation
- · Test overheated high voltage transformers
- Test terminals on circuit breaker panels
- Perform HVAC energy audits



CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.30	Infrared Thermometer Model CA870	\$139.00	-
2121.31	Infrared Thermometer Model CA872 (Laser)	\$159.00	-
2121.34	Infrared Thermometer Model CA876 (Laser, VAR, K thermocouple)	\$179.00	_

Clamp-On Meter Models 500, 501, 502 & 503

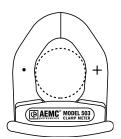
Features

- · Compact size fits into your pocket
- 400Aac or 400Aac/dc current measurements
- 600VAC/DC volts measurements
- TRMS measurements (Model 502)
- Resistance measurements to 400Ω
- Continuity with beeper below 40Ω
- · Frequency measurements from V and A (Models 501 and 502)
- · Hold function to "freeze" readings
- Push-button for easy ADC zeroing (Model 503)
- Large, easy-to-read 4000-count display
- 42-segment analog bargraph
- · Includes test leads and soft carrying pouch





Models 500, 501, 502 and 503 include a pair of test leads, soft carrying pouch and user manual.



Jaw Opening: 1.1" (28mm) Conductor Size: one 500kcmil cable









Models 500, 501, 502 & 503

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SPECIFICATIO	NS				
MODELS		500	501	502 TRMS	503
AC Current (Auto-Rand	aina)	0.05 to 400A	0.05 to 400A	0.05 to 400Arms	0.05 to 400A
Resolution	33/	0.1A	0.01A and 0.1A	0.01A and 0.1A	0.01A and 0.1A
Accuracy 50 t	o 60Hz	±2% of Reading ± 5cts	±1.9% of Reading ± 5cts	±1.9% of Reading ± 5cts	±1.5% of Reading ± 10cts
	500Hz	±2.8% of Reading ± 5cts	±2.5% of Reading ± 5cts		±2.5% of Reading ± 10cts
AC Voltage (Auto-Rang	ging)	0.5 to 600V	0.5 to 600V	0.5 to 600Vrms	0.5 to 600V
Resolution		0.1V and 1V	0.1V and 1V	0.1V and 1V	0.1V and 1V
	o 60Hz 500Hz	±1.0% of Reading ± 5cts ±1.5% of Reading ± 5cts	±0.8% of Reading ± 5cts ±1.5% of Reading ± 5cts		±0.8% of Reading ± 5cts ±1.5% of Reading ± 5cts
Input Impedance		1ΜΩ	1ΜΩ	1ΜΩ	10M Ω
DC Current (Auto-Range	ging)	-	_	_	0.10 to 400A
Resolution		_	-	-	0.01A and 0.1A
Accuracy		_	_	_	$\pm 2.5\%$ of Reading ± 10 cts
DC Voltage (Auto-Range	ging)	_	0.2 to 600V	0.2 to 600V	0.2 to 600V
Resolution		_	0.1V and 1V	0.1V and 1V	0.1V and 1V
Accuracy		-	±1% of Reading ± 2cts	±1% of Reading ± 2cts	±1% of Reading ± 2cts
Input Impedance		_	1ΜΩ	1ΜΩ	10MΩ
Resistance		0.3 to 400Ω	0.2 to 400Ω	0.2 to 400Ω	0.2 to 400Ω
Accuracy		$\pm 1.9\%$ of Reading \pm 3cts	±1% of Reading ± 2cts	±1% of Reading ± 2cts	±1% of Reading ± 2cts
Max Test Voltage		-1.6VDC	1.5VDC	1.5VDC	1.5 V DC
Continuity		<35Ω	<40Ω	<40Ω	<40Ω
Max Test Voltage		1.5Vpc	1.5Vpc	1.5Vpc	1.5 V DC
Frequency (Auto-Rang	jing)				
CURRENT INPUT					
Range 20Hz t	o 4kHz	_	1Hz Resolution	1Hz Resolution	_
>4kHz to	10kHz	_	10Hz Resolution	10Hz Resolution	_
Accuracy		-	$\pm 0.1\%$ of Reading \pm 1ct	$\pm 0.1\%$ of Reading \pm 1ct	_
Min Input Signal		_	2Arms	2Arms	_
Input Impedance		_	1MΩ	$1M\Omega$	_
Overload Protection		_	600Arms	600Arms	_
VOLTAGE INPUT					
Range 10Hz t	o 4kHz	_	1Hz Resolution	1Hz Resolution	_
>4kHz to	40kHz	_	10Hz Resolution	10Hz Resolution	_
>40kHz to 4	100kHz	_	100Hz Resolution	100Hz Resolution	_
Accuracy		_	$\pm 0.1\%$ of Reading \pm 1ct	$\pm 0.1\%$ of Reading \pm 1ct	_
Min Input Signal	4kHz	_	5Vrms	5Vrms	-
	40kHz	_	5Vrms	5Vrms	_
<u> </u>	100kHz	_	5Vrms	5Vrms	-
Input Impedance		_	1MΩ	1MΩ	-
Overload Protection		-	600Vrms	600Vrms	-
Power Source		Two 1.5V AAA batteries	Two 1.5V AAA batteries	Two 1.5V AAA batteries	Two 1.5V AAA batteries
UDTION					

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.54	Clamp-On Meter Model 500 (AC, 400Aac, 600Vac, Ohms, Continuity)	\$ 69.00	\$65.00
2117.21	Clamp-On Meter Model 501 (AC, 400Aac, 600Vac/dc, Ohms, Continuity)	\$ 99.00	\$68.00
2117.66	Clamp-On Meter Model 502 (TRMS, 400Aac, 600Vac/Dc, Ohms, Continuity)	\$119.00	\$68.00
2117.22	Clamp-On Meter Model 503 (AC/DC, 400Aac/Dc, 600Vac/Dc, Ohms, Continuity)	\$149.00	\$65.00

Clamp-On Meter Models 511, 512 & 514



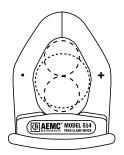
Models 511, 512 & 514

- Standard size, full function clamp-on meters
- 1000Aac or 1000Aac/Dc current measurements
- 750Vac or 1000Vpc volt measurements
- TRMS measurements (Models 512 and 514)
- Resistance measurements to 4000Ω
- Continuity with beeper below 40Ω
- Frequency measurements from V and A
- · Diode test
- 1ms Peak function for fast capture of signals
- Hold function to "freeze" readings
- Push-button for easy ADC zeroing
- Large, easy-to-read 4000-count display
- 42-segment analog bargraph
- · Includes test leads and soft carrying pouch

SPECIFICAT	IONS			
MODELS		511	512 TRMS	514 TRMS
AC Current (Auto-R	anging)	0.05 to 1000A	0.05 to 1000Arms	0.05 to 1000Arms
Resolution		0.01A, 0.1A and 1A	0.01A, 0.1A and 1A	0.01A, 0.1A and 1A
	0 to 60Hz to 500Hz	±1.9% of Reading ± 5cts ±1.9% of Reading ± 5cts	±1.9% of Reading ± 5cts ±1.9% of Reading ± 5cts	±1.9% of Reading ± 5cts ±2.5% of Reading ± 5cts
AC Voltage (Auto-R	anging)	0.5 to 750V	0.5 to 750Vrms	0.5 to 750Vrms
Resolution		0.1V and 1V	0.1V and 1V	0.1V and 1Vrms
Accuracy 60	to 500Hz	±1.2% of Reading ± 5cts	$\pm 1.2\%$ of Reading \pm 5cts	±1.2% of Reading ± 5cts
Input Impedance		1ΜΩ	1ΜΩ	10ΜΩ
DC Current (Auto-R	langing)	_	_	1A to 1000A
Resolution	.	-	_	0.01A, 0.1A and 1A
Accuracy		_	_	±2.5% of Reading ± 10cts
DC Voltage (Auto-R	langing)	0.2 to 1000V	0.2 to 1000V	0.2 to 1000V
Resolution		0.1V and 1V	0.1V and 1V	0.1V and 1Vrms
Accuracy		±0.75% of Reading ± 2cts	±0.75% of Reading ± 2cts	±1% of Reading ± 2cts
Input Impedance		10MΩ	10MΩ	10MΩ
Resistance		0.2 to 4000Ω	0.2 to 4000Ω	0.2 to 4000Ω
Accuracy		±1% of Reading ± 2cts	±1% of Reading ± 2cts	$\pm 1\%$ of Reading $\pm 2cts$
Max Test Voltage		3V DC	3V DC	3V DC
Diode Test		0.6mA	0.6mA	0.6mA
Open Circuit Volta	ge	3V DC	3V DC	3V _{DC}
Continuity		<40Ω	<40Ω	<40Ω
Max Test Voltage		3 V DC	3V DC	3V _{DC}
Frequency (Auto-Ra	anging)			
CURRENT INPUT				
Range	4kHz	1Hz Resolution	1Hz Resolution	1Hz Resolution
ŭ	10kHz	_	1Hz Resolution	10Hz Resolution
Accuracy 20Hz	to 10kHz	-	±0.1% of Reading ± 1ct	±0.1% of Reading ± 1ct (20 to10kHz)
Min Input Signal	4kHz	2Arms	2Arms	2Arms
	10kHz	_	_	5Arms
VOLTAGE INPUT				
Range	4kHz	1Hz Resolution	1Hz Resolution	1Hz Resolution
10kHz		10Hz Resolution	10Hz Resolution	10Hz Resolution
Accuracy		±0.1% of Reading ± 1ct	±0.1% of Reading ± 1ct	$\pm 0.1\%$ of Reading \pm 1ct (10 to10kHz)
Min Input Signal	4kHz	5Vrms	5Vrms	5Vrms
	10kHz	5Vrms	5Vrms	10Vrms
Power Source		9V Alkaline battery	9V Alkaline battery	9V Alkaline battery



Models 511, 512 and 514 include a pair of test leads, soft carrying pouch and user manual.



Jaw Opening: 1.575" (40mm) Conductor Size: one 750kcmil cable or two 500kcmil cables

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.67	Clamp-On Meter Model 511 (AC, 1000Aac, 600Vac/Dc, Ohms, Continuity, Hz)	\$149.00	\$65.00
2117.68	Clamp-On Meter Model 512 (TRMS, 1000Aac, 600Vac/pc, Ohms, Continuity, Hz)	\$159.00	\$65.00
2117.70	Clamp-On Meter Model 514 (AC/DC, TRMS, 1000Aac/bc, 600Vac/bc, Ohms, Continuity, Hz)	\$199.00	\$65.00

Features

- Check for leakage and locate insulation breakdowns on live circuits
- Measures leakage current down to 0.1mA with up to 10µA resolution
- · Measures current up to 100Arms
- Measures up to 600Vac/Dc
- Measures Hz on either V or A inputs
- Measures Resistance and Continuity
- Hold feature freezes Value
- · Max feature keeps track of highest measured In-rush value
- · Zero button ideal for measuring relative values
- Filter to isolate 50/60Hz fundamental from harmonics
- Compatible with VDE 0404

TRMS Leakage Current Meter Model 565



SPECIFICA'	TIONS			
MODEL		56	35	
mA AC Current (T	RMS, Auto-Ranging)	0 to 6	00mA	
Resolution	60mA 600mA	0.01m <i>A</i> 0.1mA	λ (10μΑ) (100μΑ)	
Accuracy	50 to 60Hz 50 to 500Hz 500Hz to 3kHz		ading ± 5cts ading ± 5cts ding ± 10cts	
AC Current (TRMS	, Auto-Ranging)	10 to	100A	
Resolution	10A 100A	0.001 <i>A</i> 0.01A		
Accuracy	50 to 60Hz 50 to 500Hz 500Hz to 3kHz	2.5% of Rea	1.2% of Reading ± 5cts 2.5% of Reading ± 5cts 3.5% of Reading ± 10cts	
AC Voltage (TRMS)		0 to 600V		
Accuracy	50 to 60Hz 50 to 500Hz 500Hz to 3kHz	1.0% of Reading ± 5cts 1.2% of Reading ± 5cts 2.5% of Reading ± 10cts		
DC Voltage		0 to 600V		
Resolution 0.1V		1V		
Accuracy		1.0% of Rea	ading ± 3cts	
Resistance		0 to	1kΩ	
Accuracy		1.0% of Rea	ading ± 3cts	
Continuity		Buzzer activates	$<35\Omega$ (0 to 1k Ω)	
Frequency (Auto-F	Ranging)			
Function	on A-Hz V-Hz		V-Hz	
Resolution	0 to 100Hz 100Hz to 1kHz	0.1Hz 1Hz	0.1Hz 1Hz	
Sensitivity		10mArms min	5Vrms min	
Accuracy		0.5% of Reading ± 2cts		
Filter		On (50/60Hz only); Off (Full frequency range)		
In-Rush		Max 100mS sample time		
Power Source	Power Source Two 1.5V AAA batteries			



Model 565 includes two color-coded 5 ft test leads. batteries, soft carrying case and user manual.



Jaw Opening: 1.10" (28mm) Conductor Size: 1" (26mm)

CAT	ALOG NO. DESCRIPTION		
		PRICE	NIST CALIBRATION
2117	.56 TRMS Clamp-On Leakage Curre (TRMS, 100A, 600Vac/pc, Hz, O		\$72.00



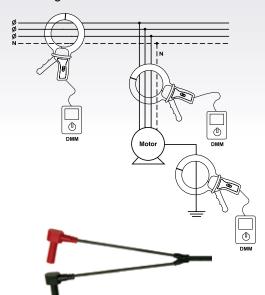
AC Leakage Current Probe Model 2620

Check for leakage and locate insulation breakdowns on live circuits

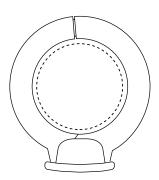


SPECIFICATIONS MODEL 2620 ELECTRICAL 4A Range 400A Range **Current Range** 500μA to 4A 500mA to 400A **Output Signal** 1mV/mA (4V max) 1mV/A (400mV max) Accuracy 500µA to 10mA 3% of Reading ± 1mV 10mA to 100mA 0.5% of Reading ± 0.5mV 100mA to 4A 0.5% of Reading ± 0.5mV 500mA to 10A 0.5% of Reading ± 0.5mV 10A to 100A 0.35% of Reading ± 0.5mV 100A to 400A 0.35% of Reading ± 1mV **Phase Shift** 500µA to 10mA <15° 10mA to 100mA <10° 100mA to 4A <1° 500mA to 10A <0.6° **Load Impedance** $1M\Omega$ min $1M\Omega$ min **Frequency Range** 48 to 1000Hz 48 to 1000Hz **MECHANICAL Dimensions** 11.22 x 6.89 x 1.77" (285 x 175 x 45mm) **Power Source** 2.87 lbs (1300g)

- · Very high sensitivity
- Differential or leakage current from 500µA
- Current up to 400A
- Two switch-selectable measurement ranges: 4Aac/400Aac
- Large inside jaw diameter allows use on large or multiple conductors
- Works with single-, dual- and three-phase systems
- Connect directly to DMMs on mV or VAC range



Model 2620 includes double reinforced 5 ft (1.5m) leads with 4mm safety banana plugs

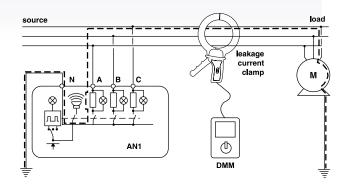


Jaw Opening: 4.4" (112mm) Conductor Size: 4.4" (112mm)

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2125.52	AC Leakage Current Probe Model 2620 (4A-1V/A, 400A-1mV/A output)	\$499.00	\$72.00
Accessories (Optional			
1971.01	Artificial Neutral Model AN-1	\$649.00	_

Features

- Designed for ungrounded networks provides intermittent path to ground for leakage current measurements
- Works from 30 to 600VAC
- · Red LED phase voltage indicators
- · Switch selectable ground fault cycling of 500mS or 2.3 seconds
- · Buzzer alerts each momentary fault
- · Battery operated
- · Double insulated, fire retardant case
- Four color-coded 5 ft 1000V rated leads supplied with alligator clips
- · Works with Model 2620 and other leakage current probes



Artificial Neutral Model AN-1



SPECIFICATION	s ·
MODEL	AN-1
ELECTRICAL	
Working Voltage	30 to 600V
Frequency	45 to 65Hz
Resistance Per Phase	3.9 k $\Omega \pm 5\%$
Relay Duty Time	Slow position: 500mS / Fast position: 2.3 seconds
Power Source	12Voc – Eight 1.5V AA batteries
Power Consumption	180mA
Battery Life	Approx. 40 hours of use
MECHANICAL	
Dimensions	8.7 x 5.4 x 5.9" (220 x 136 x 150mm)
Weight	2.9 lbs (1.3kg)
Case	Fire resistant polycarbonate UL94 VO
ENVIRONMENTAL	
Reference Temperature	73.4° ± 5°F (23° ± 3°C)
Operating Temperature	32° to 122°F (0° to 50°C); 10 to 90% RH (non-condensing)
Storage Temperature	-40° to 158°F (-40° to 70°C); 10 to 90% RH (non-condensing)

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1971.01	Artificial Neutral Model AN-1	\$649.00	-
Accessories (Optional			
2125.52	Leakage Current Probe Model 2620 (4A-1V/A, 400A-1mV/A output)	\$499.00	\$72.00



AC Current Probe Model SR759



SPECIFICATIONS		
MODEL	SR759	
MEASUREMENTS		
Measurement Range	1mA to 1Aac 10mA to 10Aac 0.1 to 100Aac 1 to 1000Aac	
Output Signal	100mVac/Aac (1V @ 1A) 100mVac/Aac (1V @ 10A) 10mVac/Aac (1V @ 100A) 1mVac/Aac (1V @ 1000A)	
MECHANICAL		
Maximum Conductor Size	2.05"Ø (52mm)	
Maximum Bus Bar Size	One 1.95 x 0.19" (50 x 5mm)	
Output Termination	5 ft (1.5m) Lead	

Features

- Measurement range of 1mA to 1200AAC
- Large jaw opening accommodates up to two 500kcmil conductors
- Ergonomic design and easy operation
- Low phase shift for power measurements
- Available with mA or mV output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- Output terminated with 4mm safety shrouded banana plugs on 5 ft (1.5m) leads
- Designed to EN 61010, 600V Cat. III safety standard

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2116.33	AC Current Probe Model SR759 (Lead - 1/10/100/1000A)	\$279.00	\$72.00

AC Current Probe Models MN103 & MN114



SPECIFICATIONS				
MODELS	DELS MN103 MN114			
MEASUREMENTS				
Measurement Range	1mA to 10Aac 1A to 100Aac	1mA to 10Aac		
Output Signal	1mVac/mAac (100mV @ 100A)	100mVac/Aac (1V @ 10A)		
MECHANICAL				
Maximum Conductor Size	0.47"Ø (12mm)	0.47"Ø (12mm)		
Output Termination	5 ft (1.5m) Lead	5 ft (1.5m) Lead		

- Small, compact and durable AC probes
- "Clothes pin" shape makes them ideal for use in tight areas, such as breaker panels, controller panels, or outlets
- Measurements from 1mA to 100AAC (Model MN103)
- Measurements from 1mA to 10AAC (Model MN114)
- Excellent companion to all DMMs. Permits very low AC current measurements.

DESCRIPTION		
	PRICE	NIST CALIBRATION
AC Current Probe Model MN103 (Lead – 1mV/mA – 10A max & 1mV/A – 100A max)	\$179.00	\$65.00
AC Current Probe Model MN114 (Lead – 100mV/A – 10A max)	\$149.00	\$65.00
	AC Current Probe Model MN103 (Lead – 1mV/mA – 10A max & 1mV/A – 100A max)	PRICE AC Current Probe Model MN103 (Lead – 1mV/mA – 10A max & 1mV/A – 100A max) \$179.00

Features

- Capacitance and Resistance Decade Boxes
- Rotary switch selector
- · Stop position to prevent accidental switching from 10 to 0
- Male ground (earth) terminal with safety jack
- Outputs on Ø 4mm safety terminals
- Ground jumper lead EN 61010-2-031, 150V Cat. II, 50V Cat. III, Pollution Degree 2
- Accuracy 1% (Resistance), 3% (Capacitance)

Inductance Decade Box

SPECIFICATIONS				
MODEL	BL07			
RANGE	RANGE			
Decade	Range	IDC Q	Resistance	
1	1 to 10μH	300mA	2Ω	
2	10 to 100μH	200mA	5Ω	
3	100µH to 1mH	100mA	13Ω	
4	1 to 10mH	100mA	34Ω	
5	10 to 100mH	70mA	55Ω	
6	100mH to 1H	50mA	220Ω	
7	1 to 10H	40mA	1500Ω	

Resistance Decade Boxes

SPECIFICATIONS				
MODELS	BR04	BR05	BR06	BR07
RANGE				
Decade 1	1 to 10Ω	1 to 10Ω	1 to 10Ω	1 to 10Ω
2	10 to 100Ω	10 to 100Ω	10 to 100Ω	10 to 100Ω
3	100 Ω to 1k Ω	100Ω to $1k\Omega$	100Ω to $1k\Omega$	100 Ω to 1k Ω
4	1 to $10k\Omega$	1 to 10kΩ	1 to 10kΩ	1 to 10kΩ
5	-	10 to 100kΩ	10 to 100kΩ	10 to 100kΩ
6	-	_	100k Ω to 1M Ω	100k Ω to 1M Ω
7	_	_	_	1 to $10M\Omega$
MAX CURF	RENT (mAdc)			
Decade 1	700mA	700mA	700mA	700mA
2	200mA	200mA	200mA	200mA
3	70mA	70mA	70mA	70mA
4	20mA	20mA	20mA	20mA
5	_	7mA	7mA	7mA
6	_	_	1mA	1mA
7	-	_	-	0.1mA
GENERAL	GENERAL			
Resistance Range	1Ω to 11.11 k Ω	1Ω to 111.11kΩ	1Ω to 1.11111MΩ	1Ω to $11.11111M\Omega$
Accuracy	1%	1%	1.11111WS2	1%

Decade Box Models BR04, BR05, BR06, **BR07 & BC05**



Capacitance Decade Box

CRECIFICATIONS			
SPECIFICATION	SPECIFICATIONS		
MODEL	BC05		
RANGE			
Decade 1	0.1 to 1nF		
2	1 to 10nF		
3	10 to 100nF		
4	100nF to 1μF		
5	1 to 10μF		
GENERAL			
Total Capacitance	11.111μF		
Residual Capacitance	25pF (approx.)		
Accuracy	3% (low residual capacitance)		
Max Operating Voltage	300Vdc, 230Vac (50Hz)		

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2131.22	Resistance Decade Box Model BR04 (x1Ω, x10Ω, x10Ω, x1kΩ, 1%)	\$150.00	\$98.00
2131.23	Resistance Decade Box Model BR05 (x1 Ω , x10 Ω , x100 Ω , x1k Ω , x10k Ω , 1%)	\$168.00	\$98.00
2131.24	Resistance Decade Box Model BR06 (x1Ω, x10Ω, x10ΩΩ, x1kΩ, x10kΩ, x100kΩ, 1%)	\$177.00	\$98.00
2131.25	Resistance Decade Box Model BR07 (x1 Ω , x10 Ω , x100 Ω , x1k Ω , x10k Ω , x100k Ω , x1M Ω , 1%)	\$180.00	\$98.00
2131.26	Capacitance Decade Box Model BC05 (x0.1nF, x1nF, x10nF, x10nF, x1knF, 3%)	\$192.00	\$98.00
2131.27*	Inductance Decade Box Model BL07 (х1µH, х10µH, х100µH, х1kµH, х10kµH, х100µH, х1МµH, 5%)	\$192.00	-

*Consult factory for availability



Portable Oscilloscope Model OX 7104-C



SPECIFICATION	 5
MODEL	OX 7104-C
INTERFACE	
Screen Specifications	Color 5 x 7" LCD (115 x 86mm) 320 x 240 – CCFL backlighting
Display Mode	Vectors with interpolation
No of Curves on Screen	Four traces and four references Split screen and full screen modes (tracing zone 110 x 74)
Front Panel Control	32 direct shortcuts
Screen Control	Touch screen – "Windows-like" menus and graphic commands
VERTICAL	
Bandwidth	100MHz
Channels	Four isolated channels
Accuracy	±0.1%
Input Impedance	$1M\Omega \pm 0.5\%$
Max. Input Voltage	600V Cat. III - derating -20dB/decade at 100kHz
Vertical Zoom	x5 maximum
HORIZONTAL	
Time Base Speed	35 ranges from 1ns/div to 200s/div
Accuracy	±1.5%
Horizontal Zoom	x10 maximum

Model OX 7104-C Kit includes: Oscilloscope; two PROBIX PRHX1, 1/10 Probe, 250 MHz, 600V Cat. III; two PROBIX BNC Adapters; one PROBIX 4mm Banana Plug Adapter; one US power adapter (115V, 60HZ); one battery pack, NiMH 9.6V, 3.8Ah; one set-of-two color-coded test leads, 1.5m (red/black) with needle probe tips; one crossed Ethernet cable; one straight Ethernet cable; SX-METRO data processing and analysis software; one RS-232/9-pin D-SUB cable; one set-of-two grip probes (red/black); set of two stylus; aluminum carrying case, three-year product warranty and registration card and user manual on CD-ROM

Model OX 7104-C Power Kit includes: AEMC® Cat. #2124.54 (above), plus the OX Power Kit (Cat. #2124.88) which includes two PROBIX PRHX1, 1/10 Probe, 250MHz, 600V Cat. Ill; two PROBIX 4mm banana plug adapters; three PROBIX current probes, 20mA to 20A, 100kHz; one PROBIX PRHX7, K thermocouple adapter; three set-of-two color-coded 1.5m leads and clips (red/black 4mm straight, 4mm right angle); small classic tool bag

- Five complementary tools in one: Oscilloscope, Multimeter, FFT Analyzer, Harmonic Analyzer and Recorder
- Sampling rate 1 GS/s in one-shot mode and 25 GS/s in ETS – memory depth of 2.5k per channel in "oscilloscope" mode
- Four isolated measurement channels, 600V Cat III with up to eight traces on screen
- 12-bit resolution provides deeper accurate zooming
- Real-time FFT analysis standard and calculation functions on the channels
- Four independent, 4000-count, TRMS, 45kHz, digital multimeters
- Color LCD touch screen
- 33 direct command keys and "Windows-like" menus on screen
- Multi-interface communication connector: RS-232, Centronics and Ethernet with web server
- Stylus for touch screen menu/function access and manipulating graphic elements on screen
- PROBIX smart probes with user-definable control buttons

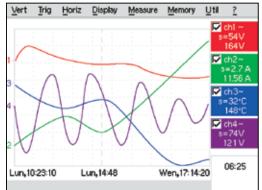
MODEL	OX 7104-C			
DIGITAL MEMORY				
Max. Sampling Speed	25GS/s in ETS – 1GS/s on each channel			
Vertical Resolution	12 bits			
Memory Capacity per Channel	"TRC" approx. 10kB, "TXT" approx. 20kB			
User Memory	1MB			
Other Modes	Envelope mode (Factors from 2 to 64)			
XY Mode	Between two from the four traces – math functions and cursors			
OTHER FUNCTIONS				
Autoset	Complete autoset at less than 3s with recognition of channels Frequency >30Hz			
FFT Analyzer and Math Functions	FT, +, -, x, / - Editor of mathematical functions			
Cursors	Two or three cursors: V and T simultaneous or Phase Resolution 12 bits, display four digits			
Power Source	Rechargeable 9V 3.8Ah battery			
Battery Life	Four hour operation when fully charged			
Communication	Ethernet, RS-232, Web Server			





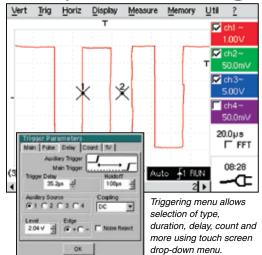
Four Tools in One!

Recorder

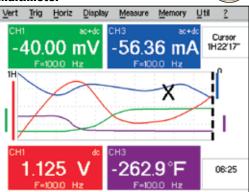


The Model OX 7104-C supports a great variety of sensors (voltage, current, temperature, 0 to 10V, 4 to 20mA, etc) and displays them in their original physical scale and units.

Oscilloscope

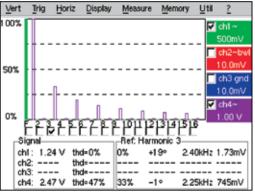


Multimeter



Automatic recording of the measured values are stored in memory on all active channels allowing review of periods lasting from five minutes to 24 hours.

Analyzer



Harmonic analysis results are displayed in bargraph form.

See detailed brochure available on the Web!

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2124.54	Portable Oscilloscope Model OX 7104-C Kit (4x100MHz, Color – Kit)	\$5,995.00	\$162.00
2124.63	Portable Oscilloscope Model OX 7104-C Power Kit (4x100MHz, Color – Power Kit)	\$7,995.00	\$192.00
Accessories (Optiona	al)		
2124.70	Software, Data Retrieval Processing	\$ 299.00	-
2124.71	Harmonic Analyz er, Firmware upgrade	\$ 269.00	-
2124.72	Recorder Function, Firmware upgrade	\$ 329.00	-
2124.73	PROBIX PRHX1, 1/10 Probe, 250MHz, 1000V Cat. II (600V Cat. III)	\$ 269.00	-
2124.74	PROBIX PRHX4, BNC Adapter	\$ 49.00	-
2124.75	PROBIX PRHX5, 50Ω Adapter	\$ 109.00	_
2124.76	PROBIX Banana Plug (4mm) Adapter	\$ 49.00	-
2124.77	PROBIX Current Probe, 20mA to 20A, 100kHz	\$ 389.00	-
2124.78	PROBIX PRH7, K thermocouple Adapter	\$ 119.00	-
2124.79	Carrying Case, Aluminum with foam cut-outs	\$ 299.00	-
2124.80	Straight Ethernet Cable	\$ 69.00	-
2124.81	Crossed Ethernet Cable	\$ 69.00	-
2124.82	RS-232 Adapter/CENTRONICS	\$ 189.00	_
2124.83	RS-232 Cable/9-pin D-SUB cable	\$ 79.00	-
2124.84	Set of two color-coded leads (1.5m) (red and black, 4mm straight, 4mm right angle) with color-coded safety alligator clips (red and black)	\$ 59.95	-
2124.88	OX Power Kit	\$2,100.00	-

Contact AEMC® for information for new 2 Channel Oscilloscopes to be available in the Fall



DC Power Supply Models AX502 & AX503



Models AX502 & AX503



	NIA .					
SPECIFICATION						
MODELS	AX502	AX503				
Technology	Linear	Linear				
Number of Outputs	2	3				
VOLTAGE						
Output 1	0 to 30Vpc	0 to 30Vpc				
Output 2	0 to 30Vpc	0 to 30Vpc				
Output 3 (No display)	_	2.7 to 5.5Vpc				
Display Resolution	100mV	100mV				
Basic Accuracy	±0.5% of Reading ± 1ct	$\pm 0.5\%$ of Reading \pm 1ct				
Residual Ripple	±1mVrms	±1mVrms				
LINE REGULATION						
±10% Line Voltage	±0.03% of Reading ± 2mV					
LOAD REGULATION	N					
0 to 2.5A	±0.02% of Re	eading ± 5mV				
0 to 5A	 ±0.2% Reading ±10mV 					
CURRENT						
Output 1	0 to 2.5A	0 to 2.5A				
Output 2	0 to 2.5A	0 to 2.5A				
Output 3	-	5A max (no adjustment)				
Resolution	10mA	10mA				
Basic Accuracy	±0.5% of Reading ± 1ct	$\pm 0.5\%$ of Reading \pm 1ct				
Limit Indicator	LED, Outputs 1 and 2	LED, Outputs 1, 2 and 3				
Short-circuit Protection	Electronic current limitation	on with voltage shutdown				
Overheating Protection	Thermal protection					
OUTPUT COUPLING						
Tracking	Output 1: Master/Output 2: Slave Proportional Slave tracking (0 to 100% of Master)					
Series Mode	0 to 60Vpc					
Parallel Mode	0 to 30Vp	c/0 to 5A				

Features

- Single and Dual 0 to 30Vpc/ 0 to 2.5A outputs
- 5.5V/5A output (Model AX503)
- Series and Parallel operation permit 0 to 60V or 0 to 5A output
- Low noise (<1mV Ripple) and stable linear technology for clean output
- · High efficiency toroidal transformers: no fan and low electromagnetic emissions
- Active protection against overloads. short circuits and overheating
- Unique variable tracking mode for Master/ Slave operation: Slave or Master track proportionally to the original setting
- · Simultaneous display of Voltage and Current
- Highly visible Green (V) and Red (A) LED displays
- · Compact design for bench tops
- Designed to EN 61010-1 safety standards



Optional lead set includes two color-coded leads, one ground lead (stripped), two alligator clips and two grip probes Catalog #2117.78

CATALOG NO.	DESCRIPTION	PRICE	NIST CALIBRATION
		PRICE	NIST CALIBRATION
2130.06	DC Power Supply Model AX502 (Dual outputs, 0 to 2.5A; 0 to 30Vpc)	\$695.00	\$72.00
2130.07	DC Power Supply Model AX503 (Triple outputs, two 0 to 2.5A; 0 to 30Vpc; 5A; 2.7 to 5.5Vpc)	\$795.00	\$72.00
Accessories (Optiona	1)		
2117.78	Lead, set of three (Two color-coded safety leads, one ground lead, two color-coded alligator clips and two color-coded grip probes)	\$ 97.80	-



Current Measurement Probes



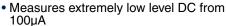




Five questions for selecting the proper Current Measurement Probe

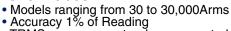
- Do you need to measure AC or DC current or both?
- What is the maximum current you want to measure?
- What is the largest size of the conductor you need to clamp on to?
 - Do you need a mV or mA output from the probe?
- What output termination is required (lead with BNC, lead with 4mm safety banana plugs or jacks to accept 4mm leads)?

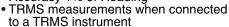
DC/AC MicroProbes



- Outputs signal proportional to total current (DC + AC)
- Low noisé
- Ultra-compact size and non-contact clamp-on convenience
- Simple plug-in operation
- Designed for use with digital multimeters and oscilloscopes
- No range or mode (AC/DC) switching required
- CE Mark

Flexible Current Probes





- No core saturation or damage if overloaded
- Overrange LED for measurement circuitry
 EN 61010, 1000V Cat. III, 600V Cat. IV,
- Pollution Degree 2
- CE Mark

JM Series AC Current Probes



- Current range: up to 3000Aac (continuous cycle for the full temperature range)
- Output: 1mA/A to 100mVac/Aac
- Designed for use on DMMs, power and harmonic meters, recorders of instruments with AC current ranges
- CE Mark

MD Series AC Current Probes



- 600A Range with mA or mV output
- Unique hook-shaped jaws that enable the user to "pry" into or "hook" onto cables
- Maximum conductor size is 2 x 500MCM
- Works as a traditional current transformer with ratio of 1000:1
- CE Mark

MN100 Series AC Current Probes



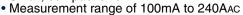
- Small, compact and very tough AC probes "Clothes pin" shape makes them ideal for
- use in tight areas, such as breaker panels, controller panels, or outlets
- Measurements from 1mA to 150AAC
- Excellent companions to all DMMs. Permits very low AC current measurements

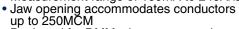
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Not all models are CE and UL approved; please consult factory.

MN200 & MN300 Series AC Current Probes







- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
 Available with mA or mV output signals
- Available with jack outputs, integral leads with shrouded safety banana plugs or BNC terminated lead
- Designed to EN 61010, 600V Cat, III safety standards
- CE Mark, UL approved

MR400 & MR500 Series AC/DC Current Probes



- Measurement range of 400AAC/600ADC (MR400 Series)
- Measurement range of 1000Aac/1500Abc (MR500 Series)
- Two distinct jaw shapes to be used for hooking or prying around the conductor
- Low phase shift for power measurements
 Designed for DMMs, recorders,
- oscilloscopes, power and harmonic meters EN 61010, 600V Cat. III, 300V Cat. IV,
- Pollution Degree 2
- CE Mark

SL Series AC/DC Current Probes

- Low AC and DC measurements
- 50mA to 120Aac/150Apc
- Unique design for probing in crowded wiring in industrial and automotive environments
- Hall effect sensor technology
- Use with DMMs, voltmeters and other voltage measuring instruments
- CE Mark

SR Series Current Probes

- Measurement range of 100mA to 1200AAC
- Large jaw opening accommodates up to two 500MCM conductors
- Ergonomic design and easy operation
- Low phase shift for power measurements
- Available with mA or mV output signals · Designed for DMMs, recorders, loggers,
- oscilloscopes, power and harmonic meters Designed to ÉN 61010, 600V Cat. III
- safety standards CE Mark, UL approved

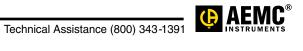




General Purpose Probes

Series	Model	Ratio	Measurem	ent Range			Phase Shift**		mum tor Size	Output Connection	Catalog No	Price
			AC	DC	Current	Voltage		Ø Cable	Bus Bar			
A .	MN103	-	1mA to 10A 1 to 100A	_	-	1mVac/mAac 1mVac/Aac	N/A		Lead	1031.02	\$179.00	
	MN106	1000:1	2 to 150A	_	1mAac/Aac	-	<10°	0.47"	N/A	Lead	1031.17	\$119.00
0	MN114	_	1mA to 10A	_	_	100mVac/Aac	<8°	(12mm)	1071	Lead	2110.71	\$149.00
	MN185	1000:1	50mA to 150A	_	1mAac/Aac	_	<3.5°			Jack	100.185	\$109.00
	MN210	1000:1	0.5 to 240A	_	1mAac/Aac	_	<2.5°			Jack	2115.72	\$89.00
	MN211	1000:1	0.5 to 240A	_	1mAac/Aac	_	<2.5°			Lead	2115.73	\$99.00
	MN212	1000:1	0.5 to 240A	_	1mAac/Aac*	_	<2.5°			Jack	2115.74	\$99.00
	MN213	1000:1	0.5 to 240A	_	1mAac/Aac*	_	<2.5°			Lead	2115.75	\$109.00
	MN250	_	0.5 to 240A	_	_	1mVac/Aac	<2.5°	\dashv \vdash	Jack	2115.76	\$99.00	
	MN251	_	0.5 to 240A	_	_	1mVac/Aac	<2.5°		Lead	2115.77	\$109.00	
	MN252	_	0.5 to 240A	_	_	10mVac/Aac	<2.5°	(19.8mm)	N/A	Jack	2115.78	\$119.00
	MN253	_	0.5 to 240A	_	_	10mVac/Aac	<2.5°		Lead	2115.79	\$129.00	
	MN254	-	0.1 to 24A 0.1 to 240A	-	-	100mVac/Aac 10mVac/Aac	<2.5°			Jack	2115.80	\$129.00
	MN255	-	0.1 to 24A 0.1 to 240A	-	-	100mVac/Aac 10mVac/Aac	<2.5°		Lead	2115.81	\$139.00	
	MN290	-	0.5 to 240A	-	-	100mVdc/Aac	N/A		Jack	2115.83	\$109.00	
	MN291	-	0.5 to 240A	_	-	100mVdc/Aac	N/A			Lead	2115.84	\$119.00
	MN306	_	10mA to 12A	_	_	100mV/Aac	<2.5°			Jack	2116.22	\$139.00
	MN307	-	10mA to 12A	-	_	100mV/Aac	<2.5°			Lead	2116.23	\$149.00
	MN312	1000:1	0.1 to 200A	-	1mAac/Aac*	_	<2.5°			Jack	2116.24	\$139.00
	MN313	1000:1	0.1 to 200A	-	1mAac/Aac*	_	<2.5°	0.78"	NI/A	Lead	2116.25	\$149.00
	MN352	-	0.1 to 150A	-	_	10mV/Aac	<2.5°	(19.8mm)	N/A	Jack	2116.26	\$139.00
	MN353	-	0.1 to 150A	-	_	10mV/Aac	<2.5°			Lead	2116.27	\$149.00
	MN373	_	0.01 to 2.4A 0.1 to 200A	-	-	1000mV/Aac 10mV/Aac	<3°			Lead	2116.28	\$159.00
*Diode Protection for open secondary (Output)	MN375	_	0.1 to 10A	_	_	100mV/Aac	<1.5°			Lead	2115.41	\$199.00
N.	SL201	-	50mA to 1.5A 500mA to 120A	50mA to 2A 500mA to 150A	-	1mV/mAac/dc 1mV/Aac/dc	<3°	0.46"	N/A	Lead	1201.40	\$344.00
0	SL206	-	10mA to 1.5A 50mA to 60A	10mA to 2A 50mA to 80A	-	1mV/mAac/dc 10mV/Aac/dc	<1°	(11.8mm)	IVA	Lead	1201.45	\$359.00
	MD301	-	2 to 500A	-	-	1mVdc/Aac	N/A			Lead	1201.07	\$149.00
	MD303	1000:1	4 to 500A	-	1mAac/Aac	-	<7°	1 1011		Lead	1201.21	\$139.00
	MD304	100:1	1 to 600A	-	10mAac/Aac	-	<3°	1.18" (30mm) 2 x 500kcmil	2.48 x 0.20" (63 x 5mm)	Lead	1201.37	\$199.00
0	MD305	1000:1	1 to 600A	-	1mAac/Aac	-	<1°	Z A JOURGIIII		Lead	1201.36	\$199.00
	MD314	_	4 to 500A	-	_	1mVac/Aac	<7°			Lead	2110.75	\$139.00

^{**}Phase shift indicated at maximum rating



^{****}Consult factory for NIST Calibration price
Not all models are CE and UL approved; please consult factory.

General Purpose Probes







Series	Model	Ratio	Measurem	ent Range	Output Signal Phase Shift**						Output Connection	Catalog No	Price
			AC	DC	Current	Voltage		Ø Cable	Bus Bar				
	SR600	1000:1	0.1 to 1000A	-	1mAac/Aac	-	<0.5°			Jack	2113.42	\$159.00	
	SR601	1000:1	0.1 to 1000A	-	1mAac/Aac*	-	<0.5°			Jack	2113.43	\$179.00	
	SR604	1000:1	0.1 to 1000A	_	1mAac/Aac*	_	<0.5°			Lead	2113.44	\$189.00	
	SR631	1000:5	0.1 to 1000A	_	5mAac/Aac*	_	<1°	2.05"	1.96 x 0.19"	Jack	2113.47	\$219.00	
	SR632	1000:5	0.1 to 1000A	_	5mAac/Aac*	_	<1°	(52mm)	(50 x 5mm)	Lead	2114.79	\$229.00	
	SR634	250:5 500:5 1000:5	1 to 250A 1 to 500A 1 to 1000A	-	20mAac/Aac 10mAac/Aac 5mAac/Aac*	-	<1°		Jack	2113.48	\$239.00		
*	SR651	-	0.1 to 1000A	-	-	1mVac/Aac	<0.5°			Jack	2113.45	\$179.00	
	SR652	-	0.1 to 1000A	_	_	1mVac/Aac	<0.5°			Lead	2113.46	\$189.00	
	SR701	1000:1	1mA to 1000A	_	1mAac/Aac*	_	<0.5°			Jack	2116.29	\$209.00	
	SR704	1000:1	1mA to 1000A	_	1mAac/Aac*	_	<0.5°		Lead	2116.30	\$219.00		
	SR751	-	0.1 to 1000A	_	_	1mVac/Aac	<0.7°	2.05"	1.96 x 0.19"	Jack	2116.31	\$209.00	
	SR752	-	0.1 to 1000A	_	_	1mVac/Aac	<0.7°	(52mm)	(50 x 5mm)	Lead	2116.32	\$219.00	
*Diode Protection for open secondary (Output)	SR759	_	1mA to 1A 10mA to 10A 0.1 to 100A 1 to 1000A	-	-	1000mVac/Aac 100mVac/Aac 10mVac/Aac 1mVac/Aac	<1°			Lead	2116.33	\$279.00	
	JM800A	1000:1	1 to 1000A	-	1mAac/Aac	-	<1°			Lead	2110.79	\$350.00	
	JM810A	2000:2	1 to 2000A	-	1mAac/Aac	-	<0.5°			Lead	2110.80	\$350.00	
	JM813	3000:3	1 to 2400A	-	1mAac/Aac	ı	<0.5°			Jack	2110.93	\$395.00	
	JM815A	1000:5	1 to 1000A	-	5mAac/Aac	ı	<0.5°			Lead	2110.81	\$350.00	
	JM830A	3000:1	1 to 2400A	_	.33mAac/Aac	-	<0.5°			Lead	2110.83	\$395.00	
7.1	JM835A	3000:5	1 to 3000A	-	1.6mAac/A	ı	<1°	2.52"	1.97 x 5.31" (50 x 135mm)	Lead	2110.84	\$395.00	
A STATE OF THE PARTY OF THE PAR	JM840A	500:1 1000:1 1500:1	1 to 500A 1 to 1000A 1 to 1500A	-	2mAac/Aac 1mAac/Aac .66mAac/Aac	-	<0.5°	(64mm) (64 x 100mm)	Jack	2110.85	\$395.00		
6	JM850A	1000:1 2000:1 3000:1	1 to 1000A 1 to 2000A 1 to 2400A	-	1mAac/Aac .5mAac/Aac .33mAac/Aac	-	<0.5°			Jack	2110.87	\$395.00	
	JM865A	1000:5 2000:5 3000:5	1 to 1000A 1 to 2000A 1 to 2400A	-	5mAac/Aac 2.5mAac/Aac 1.67mAac/Aac	-	<0.5°			Jack	2110.88	\$395.00	
	JM875	-	100mA to 30A 1 to 300A 1 to 2000A	-	-	100mVac/Aac 10mVac/Aac 1mVac/Aac	<0.5°			Jack	2110.89	\$395.00	

^{**}Phase shift indicated at maximum rating

***Consult factory for NIST Calibration price
Not all models are CE and UL approved; please consult factory.

Output Terminations



Lead with BNC: Insulated 6.5 ft (2m) coaxial cable with insulated BNC connector rated 600Vrms



Jacks: Two standard safety banana jacks (4mm)



Leads: Double/ reinforced 5 ft (1.5m) lead with 4mm safety banana plug



Shrouded Banana Plugs: Two 4mm safety banana plugs; standard ¾" (19mm) spacing



AC/DC Current Probe MR400 & MR500 Series



SPECIFICATIONS								
MODELS	MR410	MR411	MR520	MR521				
Measurement Range AC	1 to 400A	1 to 400A 0.2 to 40A 0.5 to 400A		0.2 to 100A 0.5 to 1000A				
Measurement Range DC	1 to 600A 0.4 to 60A 0.5 to 600A		1 to 1500A	0.4 to 150A 0.5 to 1500A				
Output Signal Voltage (mV) (AC in AC, DC in DC)	1mV/A	10mV/A 1mV/A	1mV/A	10mV/A 1mV/A				
Maximum Conductor Size Ø Cable	Two 0.95	" (30mm) " (24mm) 00kcmil	One 1.5" (39mm) One 1.5" (39mm)					
Bus Bar		2 x 0.4" 10mm)	One 1.96 x 0.49" (50 x 12.5mm) Two 1.96 x 0.19" (50 x 5mm					
Output Connection	Lead with safety banana plug	Lead with safety banana plug	Lead with safety banana plug	Lead with safety banana plug				

Features

- MR400 Series has a measurement range of 400Aac/600ADC
- MR500 Series has a measurement range of 1000AAC/1500ADC
- Two distinct jaw shapes to be used for hooking or prying around the conductor
- Low phase shift for power measurements
- Designed for DMMs, recorders, oscilloscopes, power and harmonic meters
- EN 61010, 600V Cat. III, 300V Cat. IV, Pollution Degree 2

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1200.70	AC/DC Current Probe Model MR410 (Lead – 1mV/A – 600A max)	\$199.00	\$65.00
1200.68	AC/DC Current Probe Model MR411 (Lead - 10mV/A - 60A max & 1mV/A - 600A max)	\$289.00	\$65.00
1200.71	AC/DC Current Probe Model MR520 (Lead – 1mV/A – 1500A max)	\$249.00	\$65.00
1200.69	AC/DC Current Probe Model MR521 (Lead - 10mV/A - 150A max & 1mV/A 1500A - max)	\$299.00	\$65.00

DC/AC MicroProbe Models K100 & K110



SPECIFICATIONS							
MODELS	K100	K110					
Current Range	0 to ± 4.5Adc 0 to 3Arms	0 to ± 450mApc 0 to 300mArms					
Output (Vout)	1mV/mA	10mV/mA					
Resolution	DC: 50μA typical, AC: 100μA typical	DC: 50μA typical, AC: 100μA typical					
Accuracy	DC: $\pm 1\%$ of Reading $\pm 200\mu\text{A}$, AC: $\pm 2\%$ of Reading, $\pm 200\mu\text{A}$	DC: $\pm 0.5\%$ of Reading $\pm 150\mu\text{A}$, AC: $\pm 0.8\%$ of Reading, $\pm 200\mu\text{A}$					
Output Noise	$<$ 100 μ V, DC to 3kHz	<100µV, DC to 3kHz					
Frequency Response	DC to 2kHz (@ -3dB sine)	DC to 1.5kHz (@ -3dB sine)					

Features

- Measures extremely low level DC from 100µA
- Outputs signal proportional to total current (DC + AC)
- Low noise
- Ultra-compact size and non-contact clamp-on convenience
- Simple plug-in operation
- Designed for use with digital multimeters and oscilloscopes
- Accurate display of waveforms
- No range or mode (AC/DC) switching required
- · Extended battery life
- Red LED indicates momentary or continuous overload
- Green LED indicates power and battery condition

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1200.67*	DC/AC MicroProbe Model K100 (1mV/mA – 4.5A max)	\$599.00	\$60.00
2111.73*	DC/AC MicroProbe Model K110 (10mV/mA – 450mA max)	\$639.00	\$60.00

*Consult factory for availability



Oscilloscope & BNC Terminated Probes



Model	Measurem	nent Range	Output Signal	Phase	Maximum C	onductor Size	Output
	AC	DC	Voltage	Shift**	Ø Cable	Bus Bar	Connection
SL261	100mA to 10A 1 to 100A	100mA to 10A 1 to 100A	100mV/Aac/dc 10mV/Aac/dc	<1.5°	0.46" (11.8mm)	N/A	Lead w/BNC
MN261	0.1 to 24A 0.1 to 240A	-	100mVac/Aac 10mVac/Aac	<2.5°	0.78" (19.8mm)	N/A	Lead w/BNC
MR461	0.2 to 40A 0.5 to 400A	0.4 to 60A 0.5 to 600A	10mV/Aac/dc 1mV/Aac/dc	<1.5°	One 1.18" (30mm) Two 0.95" (24mm) 2 x 500kcmil	Two 1.2 x 0.4" (31.5 x 10mm)	Lead w/BNC
MR561	0.2 to 100A 0.5 to 1000A	0.4 to 150A 0.5 to 1500A	10mV/Aac/dc 1mV/Aac/dc	<1.5°	One 1.5" (39mm) Two 0.98" (25mm)	One 1.96 x 0.49" (50 x 12.5mm) Two 1.96 x 0.19" (50 x 5mm)	Lead w/BNC
SR661	0.1 to 12A 0.1 to 120A 1 to 1200A	-	100mVac/Aac 10mVac/Aac 1mVac/Aac	<1°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Lead w/BNC
JM861	1 to 30A 1 to 300A 1 to 3000A	-	10mVac/Aac 1mVac/Aac 0.1mVac/Aac	<1°	2.52" (64mm) 2.52 x 3.94" (64 x 100mm)	1.97 x 5.31" (50 x 135mm)	Lead w/BNC

^{**}Phase shift indicated at maximum rating

Not all models are CE and UL approved; please consult factory.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1201.51	AC/DC Current Probe Model SL261 (BNC - 100mV/A - 10A & 10mV/A - 100A)	\$429.00	\$94.00
2115.82	AC Current Probe Model MN261 (BNC - 100mV/A - 24A; 10mV/A - 240A)	\$169.00	\$65.00
1200.72	AC Current Probe Model MR461 (BNC - 10mV/A - 60A max & 1mV/A - 600A max)	\$319.00	\$65.00
1200.73	AC Current Probe Model MR561 (BNC - 10mV/A - 150A max & 1mV/A - 1500A max)	\$359.00	\$65.00
2113.49	AC Current Probe Model SR661 (BNC - 100mV/A - 10A; 10mV/A - 100A; 1mV/A - 1000A max)	\$299.00	\$75.00
2110.90	AC Current Probe Model JM861 (BNC - 90A - 10mV/A, 900A - 1mV/A, 9000A - 0.1mV/A)	\$395.00	\$98.00



AmpFlex® Flexible Current Probes



Features

- Models ranging from 30 to 30,000Arms
- · Accuracy 1% of Reading
- TRMS measurements when connected to a TRMS instrument
- No core saturation or damage if overloaded
- Overrange LED for measurement circuitry
- · Waterproof sensor
- 9V Alkaline battery, provides typical 150 hours of continuous operation
- Shape Memory for custom pre-shaping of sensor before use (no drooping)
- · Very high frequency response
- Low phase shift for power measurements of <1.3°, 0.7° typical
- Insensitive to DC, measures only AC component on DC + AC signals
- Excellent linearity
- Lightweight
- EN 61010, 1000V Cat. III, 600V Cat IV, Pollution Degree 2

Model	Measurement Range	Output	Sensor Length inches (mm*)	Max Conductor Size inches (mm*)	Catalog No.	Price
300-24-1-10	300A	10mV/A	24 (610)	8 (190)	2112.29	\$299.00
300-24-1-1	300A	1mV/A	24 (610)	8 (190)	2112.24	\$299.00
1000-24-1-1	1000A	1mV/A	24 (610)	8 (190)	2112.39	\$299.00
1000-36-1-1	1000A	1mV/A	36 (910)	11 (290)	2112.41	\$349.00
1000-24-2-1	100/1000A	10/1mV/A	24 (610)	8 (190)	2112.98	\$319.00
1000-36-2-1	100/1000A	10/1mV/A	36 (910)	11 (290)	2113.00	\$369.00
3000-24-1-1	3000A	1mV/A	24 (610)	8 (190)	2112.46	\$319.00
3000-36-1-1	3000A	1mV/A	36 (910)	11 (290)	2112.48	\$369.00
3000-24-2-0.3	300/3000A	3.3/0.3mV/A	24 (610)	8 (190)	2114.87	\$329.00
3000-36-2-0.3	300/3000A	3.3/0.3mV/A	36 (910)	11 (290)	2114.88	\$379.00
3000-24-2-1	300/3000A	10/1mV/A	24 (610)	8 (190)	2113.05	\$339.00
3000-36-2-1	300/3000A	10/1mV/A	36 (910)	11 (290)	2112.00	\$389.00
3000-48-2-1	300/3000A	10/1mV/A	48 (1220)	15 (390)	2112.01	\$439.00
6000-24-1-0.1	6000A	0.1mV/A	24 (610)	8 (190)	2112.62	\$469.00
6000-24-2-0.1	600/6000A	1/0.1mV/A	24 (610)	8 (190)	2113.19	\$469.00
6000-36-2-0.1	600/6000A	1/0.1mV/A	36 (910)	11 (290)	2113.21	\$519.00
6000-48-2-0.1	600/6000A	1/0.1mV/A	48 (1220)	15 (390)	2113.22	\$569.00
10000-36-2-0.1	1000/10,000A	1/0.1mV/A	36 (910)	11 (290)	2112.02	\$539.00

^{*}Dimensions rounded off

Note: Output is safety shrouded 4mm male banana plug

Ranges/lengths not shown are available as special orders.



Banana (female) – BNC (male) (XM-BB) Catalog #2118.46 (optional)



^{**}Consult factory.

^{***}Consult factory for NIST Calibration prices

Features

- Single or dual range to measure up to 3000A
- TRMS measurements when connected to a TRMS instrument
- · No core saturation or damage if overloaded
- Waterproof sensor
- 9V Alkaline battery for typical use of 2000 hours continuous operation
- · Shape Memory for pre-shaping of sensor before use
- · Insensitive to DC, measures only AC component on DC + AC
- Excellent linearity
- EN 61010, 1000V Cat. III, 600V Cat. IV, Pollution Degree 2

LongLife AmpFlex® **Flexible Current Probes**

SPECIFICATIONS					
MODELS	LGLF 1000-24-2-1	LGLF 3000-36-1-1	LGLF 3000-36-2-1		
ELECTRICAL					
Current Range	5 to 100A; 50 to 1000A	5 to 3000A	5 to 300A; 50 to 3000A		
Output Signal	10mV/A and 1mV/A	0.333mV/A	3.33mV/A and 0.333mV/A		
Residual Current	200mArms	500mArms	200mArms		
MECHANICAL					
Maximum Conductor Size	24": 7.6" (193mm) 36": 11.5" (292.1mm)				
Sensor Length	24" (609mm)	36" (914mm)	36" (914mm)		
Cable Length	6.5 ft (2m) sensor to case				
Output Connection	Double insulated 14" (355mm) lead with safety banana plugs				



Model LGLF 1000-36-1-1



CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2120.67	LongLife AmpFlex® Model LGLF 1000-24-2-1 (100/1000A, 24", 10mV/1mV/A)	\$399.00	\$94.00
2120.68	LongLife AmpFlex® Model LGLF 3000-36-1-1 (3000A, 36", 0.3mV/A)		Discontinued
2120.69	LongLife AmpFlex® Model LGLF 3000-36-2-1 (300/3000A, 36", 0.3mV/3.3mV/A)	\$469.00	\$94.00

Features

- · 24" flexible sensor fits around conductors up to 7.6" in diameter
- Dual measurement ranges of 300A and 3000AAC
- Read amperage directly on DMM display
- mV output directly proportional to the AC current measured
- Output is 10mV/A on 300A range and 1mV/A on 3000A range
- Accuracy of 1% of Reading ± 500mÅ
- 4% influence of conductor position in jaw
- Up to 300 hours of battery life with Lithium battery
- Dual banana plug termination for direct input into DMMs (Model 24-3001)
- Electronic module with 4mm safety banana plugs with 34" spacing (Model 24-3002)
- Flashing LED low battery indicator
- EN 61010, 1000V Cat. III, 600V Cat IV, Pollution Degree 2

FlexProbe® Flexible Current Probe Models 24-3001 & 24-3002

SPECIFIC	ATIONS			
MODELS		24-3001	24-3002	
ELECTRICAL				
Current Range		300/30	000 A ac	
Output Signal		mV output (400	0mV peak max)	
Three Position Slide Switch 10mV/A 1mV/A 0N/0FF		5A to 300Arms 50A to 3000Arms		
MECHANICAL				
Maximum Cond	ductor Size	7.6" (193mm)		
Sensor Length		24" ± 1" (610mm ± 25.4mm)		
Cable Length		6.5 ft (2m)		
Output Connec	tion	Double insulated 14" (355mm) lead with safety banana plugs	4mm safety banana plugs (red and black)	



Banana (female) – BNC (male) (XM-BB) Catalog #2118.46 (optional)





CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2120.81	FlexProbe® Model 24-3001 (300/3000Aac, 24", 10mV/A /1mV/A, with lead)	\$249.00	\$61.00
2120.82	FlexProbe® Model 24-3002 (300/3000Aac, 24", 10mV/A /1mV/A)	\$249.00	\$61.00
Accessories (Option	al)		
2118.46	Adapter (XM-BB) Banana (Female) – BNC (Male)	\$ 37.95	=

Phase & Motor Rotation Tester Model PMR-1



SPECIFICATIONS





Model PMR-1 includes 4 ft test leads (black, red and blue) with large alligator clips, soft carrying case and user manual.

Features

- Three functions in one unit
 - 1. Phase rotation tester
 - 2. Motor rotation tester
 - 3. Open phase indication
- Fused phase rotation inputs
- Battery operated (motor rotation)
- Includes three 4 ft leads with alligator clips and soft carrying case

of Lon Ioanono			
PMR-1			
100V to 600Vac max			
45 to 70Hz			
9V Alkaline battery			
ABC or BAC			
ABC or BAC			
A, B, C			

CATALOG NO. DESCRIPTION PRICE NIST CALIBRATION 2121.04 Phase & Motor Rotation Tester Model PMR-1 \$99.00 —

Phase Rotation Meter Model PR-1





Lead separator to prevent tangled leads

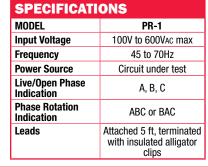


Large color-coded clips (attached)



Model PR-1







Model PR-1 includes meter with attached 5 ft color-coded leads and alligator clips, soft carrying case and user manual.

- Phase rotation (ABC or BAC) LED indicators
- Bright LED indication of Live or Open Phase (A, B, C)
- · Fuse protected inputs
- Double insulated case
- Color-coded 5 ft leads and alligator clips
- Permanently attached loss-proof leads
- Tangle proof lead separator
- Simple operation
- Line powered no battery

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.06	Phase Rotation Meter Model PR-1	\$69.00	_

Circuit Breaker Identifier Model CBI-1

- Quickly identifies and pinpoints 120VAC circuit breakers and fuses
- Self-calibrating no thumbwheels to adjust
- No need to interrupt power
- Audible tone generated when matching breaker is located



Model CBI-1

SPECIFICATIONS			
MODEL	CBI-1		
Operating Voltage	90 to 120Vac		
Operating Frequency	50 to 60Hz		
Calibration	Automatic		
Transmitter Power	Powered by wall outlet		
Receiver Power	9V Alkaline battery		

AC Line Splitter Model ALS-1

For use with Clamp-On Meters & **Multimeters using Current Probes**

- Avoids splitting lines makes reading current easy
- Increases sensitivity of clamp-on current probes and clamp-on meters ten times in X10 mode
- Direct reading X1 mode
- Voltmeter input jacks
- Integral ground conductor
- Facilitates reading current draw of device plugged into it
- Facilitates reading current draw through extension cords
- 120V, 15A capacity



Model ALS-1

Outlet Tester Models OT-1 & OT-2

- Detects faulty wiring in three-wire receptacles
- · Detects open grounds and neutrals
- Detects reversed hot/ ground connections
- Simply plug in and watch red and amber indicators
- For use on 100 to 125VAC



- Test GFCI for proper operation
- 120V three-wire US



Model OT-1







Voltage Tester Model NC-1



Model NC-1

CE

SPECIFICATIONS				
MODEL	NC-1			
Voltage Sensitivity	100 to 240Vac			
Frequency	50/60Hz			
Detection Distance	<5mm			
Over Voltage	600V Cat. III			
Battery	2 x 1.5V AAA			
Safety	For indoor use and in accordance with over voltage 600V Cat. III, Pollution Degree 2			

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2115.49	Circuit Breaker Identifier Model CBI-1		Discontinued
2121.02	Outlet Tester Model OT-1 (110V US)	\$ 7.95	-
2121.03	Outlet/GFCI Tester Model OT-2 (110V US)	\$ 7.95	-
2121.05	AC Line Splitter Model ALS-1	\$14.95	-
2121 09	AC Voltage Detector Model NC-1	\$ 9.95	_

Non-Contact AC High Voltage Detector Model 275HVD



- · Non-contact high voltage detector
- Wide range of detection; 80V to 275kV; one instrument fits all applications
- Eight switch-selectable voltage sensitivity ranges
- Lightweight, minimizes sway at the end of long hot sticks
- Audible and visual indication of live voltage
- Self-test ensures that all system functions and indicators are working properly by energizing the complete system
- Designed for use with hot sticks incorporating a shotgun adapter

SPECIFICATIONS	
MODEL	275HVD
ELECTRICAL	
Detection Frequency	45 to 70Hz
Ranges	240V, 2kV, 6kV, 11kV, 22kV, 33kV, 132kV, 275kV
Detection	Selection range is detected at approximately 10" (25cm) from the voltage
	Greater detection distances can be obtained at lower voltage positions
Power Source	Three 1.5V C cell batteries
Low Battery Indication	_
MECHANICAL	
Self Test	User selectable
Indicators	Bright red LED and audible buzzer
ENVIRONMENTAL	
Operating Temperature	5° to 130°F (-15° to 55°C)
Storage Temperature	-4° to 150°F (-20° to 65°C)
Humidity	0 to 93% RH @ 104°F (40°C)



Model 275HVD includes three C cell batteries, shotgun adapter, a hard carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2131.12	Non-Contact High Voltage Detector Model 275HVD (240V to 275kV) Manual self-test	\$359.00	-

Digital Transformer Ratiometer DTR® Model 8500

- · Designed for Power Transformers, VTs, PTs and CTs
- Direct Turns Ratio readings from 0.8000:1 to 1500.0:1
- · Display Turns Ratio, Polarity and Excitation Current simultaneously
- Dual power supply and operation: integrated rechargeable NiCD battery and AC supply
- Display warnings of incorrect lead connections, reverse polarity, open and short circuits
- · Easy connection and test setup: no calibration or balancing required
- Large dual line display with adjustable contrast and backlight ensures clear day/ night visibility
- Low battery indicator
- Includes 15 ft leads in soft carrying bag





Test lead set (30 ft) in a soft carrying bag Catalog #2118.47

SPECIFICATIONS						
MODEL	DTR® 8500					
Ratio Range	Auto-Ranging, 0.8000:1 to 1500.0:1					
Accuracy*	Ratio <10 to 1: $\pm 0.2\%$ of Reading Ratio \leq 10 to 1000 to 1: $\pm 0.1\%$ of Reading Ratio >1000 to 1: $\pm 0.2\%$ of Reading					
Excitation Signal	PT/VT Mode: 44Vrms maximum CT Mode: 0 to 1A Auto Level, 0.1 to 5Vrms					
Excitation Current Display	Range: 0 to 1000mA; Accuracy: $\pm 2\%$ of Reading $\pm 2mA$					
Excitation Frequency	70Hz					
Display	LCD Character, 20 x 2, large format, LED backlight, day/night visible					
Mesurement Method	In accordance with ANSI/IEEE C57.12.90					
Power Source	Dual operation; rechargeable NiCD battery and 115/230V, 50/60Hz line supply. DTR® may be changed from 115/230V by internal switch at any time. Units available with factory presetting of 115 or 230V.					
Batteries	12V, 5 x 2 NiCD packs, 1300mAH, Panasonic P-130SCR or equivalent					
Battery Life	Up to 10 hours continuous operation. May be used while recharging Low battery LCD indication					
Charging Time	14 hours typical, C/10 rate					
Line Fuse	115V: 1.0A, 5 x 20mm, slow acting 230V: 0.5A, 5 x 20mm, slow acting					

*23°C \pm 5°C, 50 to 70% RH, full battery charge, no external fields or noise.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2111.80	Digital Transformer Ratiometer DTR® Model 8500 (110V)	\$2,995.00	\$120.00
2116.21	Digital Transformer Ratiometer DTR® Model 8500 (220V)	\$2,995.00	\$120.00
Accessories (Optional)			
2118.47	Test lead, set of two (30 ft) in a carrying bag	\$ 439.00	-



10A Micro-Ohmmeter Model 6240



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DataView® is included with the Model 6240

Features

- · Reliable low resistance measurements
- Four-terminal Kelvin resistance measurement eliminates test lead resistance
- 10A test current at up to 4000μΩ
- 0.25% basic accuracy
- 1μΩ resolution
- · Direct reading, easy to operate
- Six selectable resistance ranges
- Reverse polarity switch
- Overload and input fuse protection
- Manufactured to international safety and environmental standards
- Automatic decimal point and zeroing
- Large terminals accept banana plugs and spade lugs
- Rechargeable NiMH battery with internal charger (110/220V)
- Includes DataView® software for data storage, real-time display, analysis and report generation

Minimum System Requirements:

- Windows® 2000/XP/Vista
- 128MB of RAM for Windows® 2000 (256MB of RAM recommended)
 256MB of RAM for Windows® XP
 512MB of RAM for Windows® Vista
- 35MB of hard disk space (200MB recommended)
- CD-ROM drive

SPECIFICATIONS									
MODEL		6240							
Range	4000μΩ	$40 \text{m}\Omega$	400mΩ	4000mΩ	40Ω	400Ω			
Accuracy	0.25% ± 2cts	0.25% ± 2cts	0.25% ± 2cts	0.25% ± 2cts	0.25% ± 2cts	0.25% ± 2cts			
Resolution	1μΩ	10μΩ	$0.1 \text{m}\Omega$	1mΩ	10m Ω	100m Ω			
Test Current	10A	10A 1A 1A 100mA 10mA 10mA							
Memory	Stores up to 99 test results								
Power Source		Recharge	able 6V, 8	.5Ah NiMH	batteries				



Kelvin clips, set of two, (10A – Hippo) 10 ft Catalog #1017.84 (10A – Hippo) 20 ft Catalog #2118.70



Kelvin probes, set of two (1A – spring loaded) 10 ft Catalog #2118.73 (1A – spring loaded) 20 ft Catalog #2118.74



Kelvin clips, set of two, (1-10A) 10 ft Catalog #2118.71 Kelvin clips, set of two, (1-10A) 20 ft Catalog #2118.72

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2129.80	10A Micro-Ohmmeter Model 6240 (includes one set of 10A Kelvin clips – Catalog #1017.84)	\$2,695.00	\$96.00
Accessories (Optiona	II)		
1017.84	Kelvin Clips (10A – Hippo), set of two, 10 ft	\$ 199.00	_
2118.70	Kelvin Clips (10A – Hippo), set of two, 20 ft	\$ 229.00	_
2118.71	Kelvin Clips (1-10A), set of two, 10 ft	\$ 99.00	_
2118.72	Kelvin Clips (1-10A), set of two, 20 ft	\$ 149.00	-
2118.73	Kelvin Probes (1A – spring loaded), set of two, 10 ft	\$ 99.00	-
2118.74	Kelvin Probes (1A – spring loaded), set of two, 20 ft	\$ 149.00	_

Model 6240

(replaces Model 5600)

Features

- Measure from 100μΩ $(0.1\mu\Omega \text{ resolution})$ to 2500.0 Ω
- Test current selection of 1mA, 10mA, 1100mA, 1A and 10A
- RTD temperature probe to check tested sample (optional)
- Selectable metal types
- Automatic and manual temperature correction
- · Two programmable alarm set points
- Stores up to 1500 test results
- Selectable Inductive or Resistive test modes
- Automatic multiple test mode (multiple tests without pressing the test button)
- Large multi-line electroluminescent display
- Local or remote test setup and control
- Direct printout to serial printer
- Internal rechargeable batteries -conduct up to 5000 10A tests
- Rugged, double insulated waterproof case
- Software included for data storage, real-time display, analysis and report generation



Kelvin clips, set of two, (1-10A) 10 ft Catalog #2118.71 Kelvin clips, set of two, (1-10A) 20 ft Catalog #2118.72



Kelvin clips, set of two, (10A - Hippo) 10 ft are included with Model 6250 Catalog #1017.84



Kelvin probes, set of two, spring loaded (1A) 10 ft Catalog #2118.73 (1A) 20 ft Catalog #2118.74



RTD Temperature Probe with 7 ft extension cable Catalog #2129.96

10A Micro-Ohmmeter Model 6250



SPECIFICATIONS									
MODEL		6250							
Range	5.0000 m Ω	25.000mΩ	250.00m $Ω$	2500.0m Ω	25.000Ω	250.00Ω	2500.0Ω		
Accuracy	0.15% + 1μΩ	0.05% + 3μΩ	0.05% + 30μΩ	$\begin{array}{c} \text{0.05\%} + \\ \text{0.3m} \Omega \end{array}$	$\begin{array}{c} 0.05\% \ + \\ 3\text{m}\Omega \end{array}$	$\begin{array}{c} \text{0.05\% +} \\ \text{30m} \Omega \end{array}$	$0.05\% + 300$ m Ω		
Resolution	0.1μΩ	1μΩ	10μΩ	$0.1 \text{m}\Omega$	1m Ω	10m Ω	100mΩ		
Test Current	10A	10A 10A 10A 1A 100mA 10mA 1mA							
Measurement Mode	Sele	ctable: Indu		uous test), R to (multiple t		tantaneous	test)		
Metal Type Alpha		Sele I	ctable: Copp Programmat	er, Aluminur ole from 000	n or Other N .00 to 99.99	Netal)			
Alarms		Two – pr	ogrammable	e set points f	rom 0.0 to 2	2500.0Ω			
Memory	St	Stores up to 1500 test results. Data in memory can be reviewed on the instrument display, on a PC or via direct printout							
Power Source		R	echargeable	6V, 8.5Ah N	iMH batterie	es			
Battery Life			Approxim	ately 5000	IOA tests				

· ·	5		
CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2129.81	10A Micro-Ohmmeter Model 6250 (includes one set of 10A Kelvin clips – Catalog #1017.84)	\$3,595.00	\$142.00
Accessories (Optiona	ıl)		
1017.84	Kelvin Clips (10A – Hippo), set of two, 10 ft	\$ 199.00	-
2129.95	RTD Temperature Probe (plug into faceplate for ambient temperature)	\$ 130.00	_
2129.96	RTD Temperature Probe with 7 ft extension cable	\$ 228.00	_
2118.70	Kelvin Clips (10A – Hippo), set of two, 20 ft	\$ 229.00	-
2118.71	Kelvin Clips (1-10A), set of two, 10 ft	\$ 99.00	_
2118.72	Kelvin Clips (1-10A), set of two, 20 ft	\$ 149.00	_
2118.73	Kelvin Probes (1A – spring loaded), set of two, 10 ft	\$ 99.00	-
2118.74	Kelvin Probes (1A – spring loaded), set of two, 20 ft	\$ 149.00	_

with the Model 6250

Intrinsically Safe Digital Multimeter Model MX 57EX



An intrinsically safe multimeter for use in dangerous or explosive atmospheres

- IECEx
- ATEx







- TRMS measurements
- LCI 07: 0010X
- Safety rating: IEC 61010-1: 2001
- Agency Approval: IECEx LC107.0010 X, LČIE 02 ATEX 6005 X, II 2 D or M2, Ex ib I, Ex ib IIC T5 or T4 or T3 Ex ibD 21 T
- Logic signal measurement and ADP input
- Min/Max/Avg functions
- Bargraph with zoom (x5) and center zero
- · Rugged design IP67 rating
- Protection by 500mA intrinsic safety fuse for the current range
- · Includes test leads

Model MX 57EX		<u></u> /	ROOF							
SPECIFICATIONS										
MODEL					MX 57EX IE	CEX TRMS				
AC Current	500uA			5mA			50mA			500mA
Resolution	10nA			100nA			1uA			10uA
Bandwidth	DC to 5kHz			DC to 5kl		D	C to 5kHz			DC to 5kHz
Accuracy	±0.75% of Reading ±	30cts	+0.6%		g ± 30cts	±0.6% of			+0	0.7% of Reading ± 30cts
Protection	600Vrms	0000		600Vrm			600Vrms	_ 00010		600Vrms
AC Voltage	500mV		5V	00011111	50		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	500V*		1000V*
Resolution	10uV		100uV			nV		10mV		100mV
Bandwidth	40Hz to 1kHz		1kHz to 4kH	17		10kHz	10	kHz to 30kHz	7	30kHz to 50kHz
Accuracy	±0.3% of Reading ± 30c	ts 1%	of Reading ±			ding ± 30cts		f Reading ± 3		±3% of Reading ± 30cts
Imput Impedance	$11M\Omega$	170	11MΩ	. 00010		MΩ	±270 O	10MΩ	00010	10MΩ
Protection	1100Vpk		1100Vpk			OVpk		1100Vpk		1100Vpk
DC Current	500μA		1100VpR	5mA	110	o pr	50mA	. 100 vpit		500mA
Resolution	10nA			100nA			1uA			10uA
Accuracy	±0.2% of Reading ±	5cts	+0.2%	of Readi		±0.05% (1 + 2cts	+(0.2% of Reading ± 2cts
Protection	600Vrms	0010	±0.2 /	600Vrm			600Vrms	J = 2010		600Vrms
DC Voltage	500mV		5V	00011111	5(700 111110	500V*		1000V*
Resolution	10uV	777		100mV						
Accuracy	±0.025% of Reading ± 20	cts +0.02		na + 2cts			+0.0259		+ 2cts	±0.2% of Reading ± 2cts
Imput Impedance	11ΜΩ	210 _0.02	11MΩ	.g		$M\Omega$	_0.0207	10ΜΩ		10ΜΩ
Protection	1100Vpk		1100Vpk			0Vpk		1100Vpk		1100Vpk
Resistance	500 Ω	51	κ Ω		50kΩ	500kg)		1 Ω	50MΩ
Resolution	10mΩ)mΩ		1Ω	10Ω			0Ω	1kΩ
Accuracy	±0.07% of Reading ± 5cts	±0.07%	of Reading 2cts		% of Reading ± 2cts	±0.07% of F ± 2ct	Reading	±0.3% o		
Max Open-Circuit Voltage	± 3018		7V	-	7V	± 201 7V	5		V	± 2015 7V
Protection	600V)OV		600V	600V	,		v 10V	600V
Continuity	OUUV	סנ	JUV			20 Ω		00	UV	OUUV
Response Time						ns				
Diode Test) 2V				
Test Current						± 20%				
Capacitance					50nF to					
Accuracy						ding ± 2cts				
Frequency						o 500kHz				
Accuracy					0.03% of Re					
Temperature					0.00 /0 01 116	uumiy ± 2010				
Range (User selectable in °F or °C)	-328° to 1472°F (-200° to 800°C)									
Sensor		PT100/PT1000								
Digital Display		50,000-count								
Analog Bargraph						gment				
Safety Rating					N 50014: 1992;					
Agency Approval	Agency Approva	al: IECEx L	C107.0010 X	LCIE 02	ATEX 6005 X, E	ExII 2 G D or Ex	l M2, Ex il	o I, Ex ib IIC T	5 or T4	or T3, Ex ibD 21 T

^{*}Operating voltages are limited to 60V peak value or currents to 500mA for intrinsically safe operation

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.66	DMM Model MX 57EX IECEx (Intrinsically Safe, 50,000-count, TRMS, 0.025% Accuracy)	\$895.00	\$98.00



Features

- Hand-held size, ultra practical and ergonomic
- True RMS measurement through fast sampling - accurate on non-linear waveforms
- 4kHz Bandwidth
- 3.5 Crest Factor @ 600Arms and 900Vrms
- Peak function captures 500µs signals
- Measure Inrush Current on 0.5, 1, 2.5, 5 and 10 cycles (15 to 70Hz) (model dependent)
- · Min/Max for automatic capture of extreme values on 100ms samples
- Measure V. A. Ohms, kW. PF, VAR, VA, Hz, Phase Rotation, Temperature, AC + DC (model dependent)
- Temperature measurement up to 1832°F (1000°C) via standard K thermocouple (model dependent)
- · Continuity at programmable buzzer threshold from 1 to 40Ω (model dependent)
- Selectable V-Live[™] function (buzzer) warns of live circuit
- Battery life displays directly in hours at the push of a button (Models F03, F05, F07 and F09)
- · Automatically detects AC or DC and is auto-ranging
- · Automatic DC current zeroing
- Backlit LCD
- EN 61010-1, EN 61010-2-032, 600V Cat. III

· Includes test leads and soft carrying case



Models F01, F03, F05, F07 and F09 include test leads, soft carrying case and user manual.

Professional High Performance TRMS Clamp-On Meter Models F01, F03, F05, F07



SPECIFICATIONS	Ď				
MODELS	F01 TRMS	F03 TRMS	F05 TRMS	F07 TRMS	F09 TRMS
AC Current (Auto-Ranging)	0.2 to 400A	0.2 to 400A	0.2 to 400A	0.2 to 400A	0.2 to 400A
AC Voltage (Auto-Ranging)	0.2 to 600V	0.2 to 600V	0.2 to 600V	0.2 to 600V	0.2 to 600V
DC Current (Auto-Ranging)	_	0.2 to 400A	0.2 to 400A	0.2 to 400A	0.2 to 400A
DC Voltage (Auto-Ranging)	0.2 to 600V	0.2 to 600V	0.2 to 600V	0.2 to 600V	0.2 to 600V
AC + DC Current (Auto-Ranging)	-	_	_	0.2 to 400Arms	0.2 to 400Arms
AC + DC Voltage (Auto-Ranging)	-	_	_	600Vrms	600Vrms
Resistance	400Ω	4000Ω	40kΩ	$40 \mathrm{k}\Omega$	$40 \mathrm{k}\Omega$
Diode Test	_	Yes	Yes	Yes	Yes
Continuity (Beeper)	Yes	Yes	Yes (w/adjustable threshold)	Yes (w/adjustable threshold)	Yes (w/adjustable threshold)
Frequency	_	_	20kHz	20kHz	20kHz
Power	-	-	240kW	-	5W to 240kW
Power Factor	_	_	-1.00 to 1.00	_	-1.00 to 1.00
Phase Rotation	_	-	Yes	_	Yes
Temperature (int or ext)	-	-50° to 1832°F (-10° to 1000°C)	-	-50° to 1832°F (-10° to 1000°C)	-
Adapter (AC/DC)	-	-	-	0 to 4000mV	-
Min/Max/Peak	_	Yes	Yes	Yes	Yes
Hold	Yes	Yes	Yes	Yes	Yes
Inrush Current	-	-	0.5 to 10 cycles selectable	0.5 to 10 cycles selectable	0.5 to 10 cycles selectable
V-Live™ Hazardous Voltage Indicators ⁽¹⁾	45Vp	45Vp	45Vp	45Vp	45Vp
Auto-Off	Yes	Yes	Yes	Yes	Yes
Backlight	-	Yes	Yes	Yes	Yes
Battery Indicator(2)	Yes	Yes	Yes	Yes	Yes
Buzzer for Overrange	Yes	Yes	Yes	Yes	Yes
Power Source	9V Alkaline battery	9V Alkaline battery	9V Alkaline battery	9V Alkaline battery	9V Alkaline battery

⁽¹⁾Indicates voltage higher than instrument rating ⁽²⁾Remaining time expressed in hours on Models F03, F05 and F07

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2129.51	Clamp-On Meter Model F01 (TRMS, 400Aac, 600Vac/dc, Ohms, Continuity)	\$229.00	\$61.00
2129.52	Clamp-On Meter Model F03 (TRMS, 400Aac/Dc, 600Vac/Dc, Ohms, Continuity, Temperature)	\$259.00	\$61.00
2129.53	Clamp-On Meter Model F05 (TRMS, 400Aac/pc, 600Vac/pc, Hz, Power (kW), Phase Rotation, Ohms, Continuity)	\$299.00	\$61.00
2129.54	Clamp-On Meter Model F07 (TRMS, 400Aac/pc, 600Vac/pc, Hz, Ohms, Continuity, Temperature)	\$259.00	\$61.00
2129.50	Clamp-On Meter Model F09 (TRMS, 400Aac/pc, 600Vac/pc, Hz, Power (kW), Phase Rotation, Ohms, Continuity)	\$329.00	\$61.00



AEMC MODEL NUMBER	AEMC CATALOG NUMBER	TEST VOLTAGE	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE TEST	POWER SOURCE	DISPLAY	CATALOG PAGE
1030	2116.89	250V 500V	50k to 2G Ω 100k to 2G Ω	N/A	0.00 to 19.99Ω	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	2
1040	2116.92	500V 1000V	100k to $2G\Omega$ 200k to $2G\Omega$	0.0 to 400kΩ	0.00 to 19.99Ω	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	2
1045	2116.93	250V 500V 1000V	50k to $2G\Omega$ 100k to $2G\Omega$ 200k to $2G\Omega$	0.0 to 400kΩ	0.00 to 19.99Ω	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	2
1040 Field Kit	2117.30	500V 1000V	100k to 2G Ω 200k to 2G Ω	0.0 to 400kΩ	0.00 to 19.99Ω	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	2
1045 Field Kit	2117.31	250V 500V 1000V	50k to $2G\Omega$ 100k to $2G\Omega$ 200k to $2G\Omega$	0.0 to 400kΩ	0.00 to 19.99Ω	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	2
1035	2116.90	50V 100V 250V 500V	10k to $2G\Omega$ 20k to $2G\Omega$ 50k to $2G\Omega$ 100k to $2G\Omega$	0.0 to 400kΩ	N/A	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	3
1039	2116.91	50V 100V	10k to 400M Ω 20k to 400M Ω	0.0 to 40.0kΩ	N/A	0 to 4000nF	0 to 600Vac/dc	Battery	Digital/ Analog	3
1035 Field Kit	2115.42	50V 100V 250V 500V	10k to $2G\Omega$ 20k to $2G\Omega$ 50k to $2G\Omega$ 100k to $2G\Omega$	0.0 to 400kΩ	N/A	N/A	0 to 600Vac/dc	Battery	Digital/ Analog	3
1039 Field Kit	2115.43	50V 100V	10k to $400 \mathrm{M}\Omega$ 20k to $400 \mathrm{M}\Omega$	0.0 to 40.0kΩ	N/A	0 to 4000nF	0 to 600Vac/dc	Battery	Digital/ Analog	3
1050	2130.01	50V 100V 250V 500V 1000V	2 k to 200 G Ω 4 k to 4000 G Ω 10 k to 1 T Ω 20 k to 2 T Ω 40 k to 4 T Ω	0.01 to 400kΩ	0.01 to 39.99Ω	N/A	0 to 1000Vac/dc	Battery	Digital/ Analog	4
1060	2130.03	50V 100V 250V 500V 1000V	2 k to 200 G Ω 4k to 4000 G Ω 10k to 1 T Ω 20k to 2 T Ω 40k to 4 T Ω	0.01 to 400kΩ	0.01 to 39.99Ω	N/A	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	4
5050	2130.20	500V 1000V 2500V 5000V	30k to 2T Ω 100k to 4T Ω 100k to 10T Ω 300k to 10T Ω	N/A	N/A	0 to 49.99μF	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	6
5060	2130.21	500V 1000V 2500V 5000V	30k to $2T\Omega$ 100k to $4T\Omega$ 100k to $10T\Omega$ 300k to $10T\Omega$	N/A	N/A	0 to 49.99µF	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	6
5070	2130.30	500V 1000V 2500V 5000V	30k to 2T Ω 100k to 4T Ω 100k to 10T Ω 300k to 10T Ω	N/A	N/A	0 to 49.99μF	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	6
1210N	1326.01	500V	5.5 to 200MΩ	0 to 500kΩ	0 to 100Ω	N/A	0 to 600Vac	Hand-cranked	Analog	9
1250N	1326.02	250V 500V 1000V	1 to $500 M \Omega$ 1 to $500 M \Omega$ 10 to $5000 M \Omega$	N/A	N/A	N/A	0 to 600Vac	Hand-cranked	Analog	9
1026	2117.72	250V 500V 1000V	1k to 4000 M Ω 1k to 4000 M Ω 1k to 4000 M Ω	400 to 4000Ω	≤40	N/A	0 to 600Vac	Battery	Digital/ Analog	10
1015	1403.01	500V 1000V	0.1 to 1000M Ω 0 to 1000M Ω	0 to 1000Ω	0 to 10.0Ω±	N/A	0 to 600Vac	Battery	Analog	11



AEMC MODEL NUMBER	AEMC CATALOG NUMBER	RESISTANCE RANGE	POWER SOURCE	2 POINT TEST	3 POINT TEST	SOIL RESISTIVITY TEST	BOUNDING	DISPLAY	CATALOG PAGE
6472	2135.51	0.01 to 99,000Ω	Rechargeable Battery	х	Х	х	Х	Digital	18
6472KIT-150FT	2135.52	0.01 to 99,000Ω	Rechargeable Battery	х	Х	Х*	N/A	Digital	18
6472KIT-300FT	2135.53	0.01 to 99,000Ω	Rechargeable Battery	Х	Х	Х	Х	Digital	18
6472KIT-500FT	2135.54	0.01 to 99,000Ω	Rechargeable Battery	Х	Х	Х	Х	Digital	18
6470	2135.01	0.01 to 99,000Ω	Rechargeable Battery	х	Х	Х	Х	Digital	20
6470KIT-150FT	2135.02	0.01 to 99,000Ω	Rechargeable Battery	Х	Х	Х*	N/A	Digital	20
6470KIT-300FT	2135.03	0.01 to 99,000Ω	Rechargeable Battery	Х	Х	Х	Х	Digital	20
6470KIT-500FT	2135.04	0.01 to 99,000Ω	Rechargeable Battery	х	Х	Х	Х	Digital	20
4620	2130.43	0.0 to 1.999KΩ	Battery	Х	Х	Х	N/A	Digital	22
4620KIT-150FT	2135.19	0.0 to 1.999KΩ	Battery	Х	Х	Х*	N/A	Digital	22
4620KIT-300FT	2135.20	0.0 to 1.999KΩ	Battery	Х	Х	Х	N/A	Digital	22
4620KIT-500FT	2135.21	0.0 to 1.999KΩ	Battery	Х	Х	Х	N/A	Digital	22
4630	2130.44	0.0 to 1.999KΩ	Rechargeable Battery	х	х	х	N/A	Digital	22
4630KIT-150FT	2135.22	0.0 to 1.999KΩ	Rechargeable Battery	х	Х	Х*	N/A	Digital	22
4630KIT-300FT	2135.23	0.0 to 1.999KΩ	Rechargeable Battery	х	Х	х	N/A	Digital	22
4630KIT-500FT	2135.24	0.0 to 1.999KΩ	Rechargeable Battery	х	Х	Х	N/A	Digital	22
3620	2114.90	0.50 to 1000Ω	Battery	Х	Х	N/A	N/A	Analog	23
3620KIT-150FT	2135.10	0.50 to 1000Ω	Battery	Х	Х	N/A	N/A	Analog	23
3620KIT-300FT	2135.11	0.50 to 1000Ω	Battery	Х	Х	N/A	N/A	Analog	23
3620KIT-500FT	2135.12	0.50 to 1000Ω	Battery	Х	Х	N/A	N/A	Analog	23
3640	2114.92	0.0 to 1.999KΩ	Battery	Х	Х	N/A	N/A	Digital	23
3640KIT-150FT	2135.13	0.0 to 1.999KΩ	Battery	Х	Х	N/A	N/A	Digital	23
3640KIT-300FT	2135.14	0.0 to 1.999KΩ	Battery	Х	Х	N/A	N/A	Digital	23
3640KIT-500FT	2135.15	0.0 to 1.999KΩ	Battery	Х	Х	N/A	N/A	Digital	23
4610	2114.94	0.0 to 1.999KΩ	Battery	Х	Х	Х	N/A	Digital	23
4610KIT-150FT	2135.16	0.0 to 1.999KΩ	Battery	Х	X*	Х*	N/A	Digital	23
4610KIT-300FT	2135.17	0.0 to 1.999KΩ	Battery	Х	Х	Х	N/A	Digital	23
4610KIT-500FT	2135.18	0.0 to 1.999KΩ	Battery	Х	Х	Х	N/A	Digital	23
3711	2117.60	0.0 to 1200Ω	Battery	Clamp-0	On Ground Resistar	nce Tester	X**	Digital	24
3731	2117.61	0.0 to 1200Ω	Battery	Clamp-0	On Ground Resistar w/Alarm & Memor	nce Tester Ty	Х**	Digital	24

^{*} Performing soil resistivity tests with this kit requires two additional auxiliary electrodes not supplied in the 150ft kit and one additional test lead.

^{**}Clamp-on Ground Resistance Tester can measure system continuity inclusive of all bonding points.



Cat. No.		ge No.
100.185	AC Current Probe Model MN185	54
1017.84	Kelvin Clips (10A) 10 ft	64, 65
1031.02	AC Current Probe Model MN103 29	9, 48, 54
1031.17	AC Current Probe	
1200.67	Model MN106 DC/AC MicroProbe	54
1200.68	Model K100 AC/DC Current Probe	56
1200.69	Model MR411 AC/DC Current Probe	56
1200.09	Model MR521	56
1200.70	AC/DC Current Probe Model MR410	56
1200.71	AC/DC Current Probe Model MR520	56
1200.72	AC Current Probe Model MR461	
1200.73	AC Current Probe	29, 57
1201.07	Model MR561 AC Current Probe	29, 57
1201.21	Model MD301 AC Current Probe	29, 54
	Model MD303	54
1201.36	AC Current Probe Model MD305	54
1201.37	AC Current Probe Model MD304	54
1201.40	AC/DC Current Probe Model SL201	29, 54
1201.45	AC/DC Current Probe	
1201.51	Model SL206 AC/DC Current Probe	29, 54
1326.01	Model SL261 Hand-cranked Megohmmeter	29, 57
1000.00	Model 1210N	9, 72
1326.02	Hand-cranked Megohmmeter Model 1250N	9, 68
1403.01	Megohmmeter Model 1015	11, 68
1971.01 2110.71	Artificial Neutral Model AN-1 AC Current Probe	46, 47
0440 75	Model MN114 2	9, 48, 54
2110.75	AC Current Probe Model MD314	29, 54
2110.79	AC Current Probe	
2110.80	Model JM800A	55
2110.00	AC Current Probe	
	AC Current Probe Model JM810A AC Current Probe	55
2110.81	AC Current Probe Model JM810A	
2110.81 2110.83	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A	55
2110.81 2110.83	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe	55 55
2110.81 2110.83 2110.84	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe	55 55 55
2110.81 2110.83 2110.84 2110.85	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe	55 55 55 55
2110.81 2110.83 2110.84 2110.85 2110.87	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe	55 55 55 55 55
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM840A	55 55 55 55
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A	55 55 55 55 55
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89 2110.90	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM855A AC Current Probe Model JM865A AC Current Probe Model JM875 AC Current Probe Model JM875	55 55 55 55 55 55
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89 2110.90 2110.93	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM855A AC Current Probe Model JM875 AC Current Probe Model JM875 AC Current Probe Model JM875 AC Current Probe Model JM861 AC Current Probe Model JM861	55 55 55 55 55 55 55
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89 2110.90 2110.93	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM855A AC Current Probe Model JM865A AC Current Probe Model JM875 AC Current Probe Model JM875 AC Current Probe Model JM861 AC Current Probe	555 555 555 555 555 555 557 555
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89 2110.90 2110.93 2111.73	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM865A AC Current Probe Model JM875 AC Current Probe Model JM875 AC Current Probe Model JM8813 DC/AC MicroProbe Model K110 Digital Transformer Ratiomete	55 55 55 55 55 55 55 57 55 57
2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89 2110.90 2110.93 2111.73 2111.80	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM865A AC Current Probe Model JM875 AC Current Probe Model JM875 AC Current Probe Model JM813 DC/AC MicroProbe Model JM813 DC/AC MicroProbe Model JM810 Digital Transformer Ratiomete DTR® Model 8500 AmpFlex®	555 555 555 555 556 557 557 557 558 569 579 579 579 579 579 579 579 579 579 57
2110.80 2110.81 2110.83 2110.84 2110.85 2110.87 2110.88 2110.89 2110.90 2110.90 2111.73 2111.80 2112.00 2112.01	AC Current Probe Model JM810A AC Current Probe Model JM815A AC Current Probe Model JM830A AC Current Probe Model JM835A AC Current Probe Model JM840A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM850A AC Current Probe Model JM865A AC Current Probe Model JM865A AC Current Probe Model JM875 AC Current Probe Model JM8813 DC/AC MicroProbe Model K110 Digital Transformer Ratiomete DTR® Model 8500	55 55 55 55 55 55 55 57 55 57

at. No.	Model No.	Page No.
	Model 10000-36-2-0.1	58
112.24	AmpFlex® 200A Model 300-24-1-1	58
112.29	AmpFlex® Model 300-24-1-10	58
112.39	AmpFlex®	
112.41	Model 1000-24-1-1 AmpFlex®	58
112.46	Model 1000-36-1-1 AmpFlex®	58
112.48	Model 3000-24-1-1	58
	AmpFlex® Model 3000-36-1-1	58
112.62	AmpFlex® Model 6000-24-1-0.1	58
112.98	AmpFlex® Model 1000-24-2-1	58
113.00	AmpFlex®	
113.05	Model 1000-36-2-1 AmpFlex®	58
113.19	Model 3000-24-2-1 AmpFlex®	58
	Model 6000-24-2-0.1	54
113.21	AmpFlex [®] Model 6000-36-2-0.1	54
113.22	AmpFlex® Model 6000-48-2-0.1	54
113.42	AC Current Probe Model SR600	
113.43	AC Current Probe	55
113.44	Model SR601 AC Current Probe	55
113.45	Model SR604 AC Current Probe	55
	Model SR651	55
113.46	AC Current Probe Model SR652	29, 55
113.47	AC Current Probe Model SR631	55
113.48	AC Current Probe	
113.49	Model SR634 AC Current Probe	55
113.72	Model SR661 Simple Logger®	29, 57
114.79	Model AL24-2500	37
114.79	AC Current Probe Model SR632	55
114.87	AmpFlex® Model 3000-24-2-0.3	58
114.88	AmpFlex [®] Model 3000-36-2-0.3	58
114.90	Ground Resistance Tester	r
114.92	Model 3620 Ground Resistance Tester	23, 69 r
114.94	Model 3640 Ground Resistance Tester	23, 69
	Model 4610	23, 69
115.41	AC Current Probe Model MN375	29, 58
115.42	Megohmmeter Field Kit Model 1035	3, 68
115.43	Megohmmeter Field Kit Model 1039	3, 68
115.49	Circuit Breaker Identifier	
115.72	Model CBI-1 AC Current Probe	61
115.73	Model MN210 AC Current Probe	54
	Model MN211	3, 54
115.74	AC Current Probe Model MN212	54
115.75	AC Current Probe Model MN213	54
115.76	AC Current Probe Model MN250	
115.77	AC Current Probe	54
115.78	Model MN251 AC Current Probe	29, 54
115.79	Model MN252	54
	AC Current Probe Model MN253	54
115.80	AC Current Probe Model MN254	54
115.81	AC Current Probe Model MN255	
115.82	AC Current Probe	54
115.83	Model MN261 AC Current Probe	29, 57
115.84	Model MN290 AC Current Probe	54

Cat. No.	Model No. Page No.
2116.21	Digital Transformer Ratiometer DTR® Model 8500 63
2116.22	AC Current Probe
0440.00	Model MN306 54
2116.23	AC Current Probe Model MN307 29, 54
2116.24	AC Current Probe Model MN312 54
2116.25	AC Current Probe
2116.26	Model MN313 54 AC Current Probe
2116.27	Model MN352 54 AC Current Probe
	Model MN353 54
2116.28	AC Current Probe Model MN373 54
2116.29	AC Current Probe Model SR701 55
2116.30	AC Current Probe Model SR704 55
2116.31	AC Current Probe Model SR751 55
2116.32	AC Current Probe Model SR752 29, 55
2116.33	AC Current Probe Model SR759 29, 48, 55
2116.89	Megohmmeter Model 1030 2, 68
2116.90	Megohmmeter Model 1035 3, 68
2116.91	Megohmmeter Model 1039 3, 68
2116.92	Megohmmeter Model 1040 2, 68
2116.93	Megohmmeter Model 1045 2, 68
2117.21	Clamp-On Meter Model 501 43
2117.22 2117.30	Clamp-On Meter Model 503 43
	Megohmmeter Model 1040 Field Kit 2, 68
2117.31	Megohmmeter Model 1045 Field Kit 2, 68
2117.54	Clamp-On Meter Model 500 43
2117.56	TRMS Leakage Current Meter Model 565 45
2117.60	Ground Resistance Tester Model 3711 (Clamp-On) 24, 69
2117.61	Ground Resistance Tester Model 3731 (Clamp-On) 24, 69
2117.66	Clamp-On Meter Model 502 43
2117.67	Clamp-On Meter Model 511 44
2117.68	Clamp-On Meter Model 512 44
2117.70 2117.72	Clamp-On Meter Model 514 44 Megohmmeter Model 1026 10, 68
2117.78	Megohmmeter Model 1026 10, 68 Lead – Set of three 52
2118.47	Test lead, set of two (30 ft) in carrying bag 63
2118.70	Kelvin Clips (10A – Hippo),
2118.71	Kelvin Clips (1A – spring loaded),
2118.72	set of two, 10 ft 64, 65 Kelvin Clips (1-10A),
2118.73	set of two, 20 ft 64, 65 Kelvin Probes (1A – spring loaded),
0110.74	set of two, 10 ft 64, 65
2118.74	Kelvin Probes (1A – spring loaded), set of two, 20 ft 64, 65
2118.97	Remote Test Probe 2, 3, 4
2118.98	Field Case (Waterproof) 2, 3
2118.99 2119.45	Hands-Free Carrying Case 2, 3 Cable, PC RS-232, DB9
	F/F 6 ft Null Modem Cable 7
2119.76	Lead, set of three, 10 ft color-coded with color-coded alligator clips; one black and one red test probe
2119.85	(rated 5000V) 7 Leads, set of three, 10 ft color-coded
	with color coded clips; one red, one blue and one black with
0440.00	integral 5kV hippo clips (rated 5000V) 7
2119.86	Leads, set of three, 25 ft color-coded with color-coded clips;
	one red, one blue and one black with integral 5kV hippo clips
2119.87	(rated 5000V) 7 Leads, set of three, 45 ft color-coded
	with color-coded clips; one red, one blue and one black with
	integral 5kV hippo clips
	(rated 5000V) 7

Cat. No.		Page No.
2120.67	LongLife AmpFlex® Model LGLF 1000-24-2-1	59
2120.68	LongLife AmpFlex® Model LGLF 3000-36-1-1	59
2120.69	LongLife AmpFlex® Model LGLF 3000-36-2-1	59
2120.81	FlexProbe® Model 24-3001	59
2120.82	FlexProbe® Model 24-3002	2 59
2121.02 2121.03	Outlet Tester Model OT-1 Outlet/GFCI Tester	61
	Model OT-2	61
2121.04	Phase & Motor Rotation M Model PMR-1	eter 60
2121.06	Phase Rotation Meter Model PR-1	60
2121.09	Voltage Tester Model NC-1	61
2121.20	Lightmeter Model CA811	38
2121.21	Lightmeter Model CA813	38
2121.23	Sound Level Meter Model CA832	39
2121.24	Thermo-Hygrometer Model CA846	40
2121.25	Moisture Meter Model CA8	
2121.26	Thermometer Model CA86	1
2121.27	(K Thermocouple) Thermometer Model CA86	41
	(Dual K Thermocouple)	41
2121.28	Thermometer Model CA86 (RTD)	5 41
2121.30	Infrared Thermometer Model CA870	42
2121.31	Infrared Thermometer Model CA872 (Laser)	42
2121.34	Infrared Thermometer Model CA876 (Laser, Var ε K Thermocouple)	, 42
2124.54	Oscilloscope	<u></u>
2124.63	Model OX 7104-C Kit Oscilloscope	49
2124.70	Model OX 7104-C Power Ki Software, Data Retrieval	t 49
2124,71	Processing Harmonic Analyzer, Firmw	50 are –
2124.72	upgrade on CD-ROM Recorder Function, Firmwa	50
2124.73	upgrade on CD-ROM PROBIX PRHX1, 1/10 Probe	50
	1000V Cat. II (600V Cat. II)	
2124.74	PROBIX PRHX4, BNC Adapt	er 50
2124.75	PROBIX PRHX5, 50Ω Adapt	er 50
2124.76	PROBIX Banana Plug (4mm) Adapter	50
2124.77	PROBIX Current Probe, 20mA to 20A, 100kHz	50
2124.78	PROBIX PRH7, K Thermoco Adapter	uple 50
2124.79	Carrying Case, Aluminum with foam cut-outs	50
2124.80	Straight Ethernet Cable	50
2124.81	Crossed Ethernet Cable	50
2124.82	RS-232 Adapter/CENTRONIC	S 50
2124.83	RS-232 Cable/9-pin SUB-D cable	50
2124.84	Set of two color-coded lea (red and black, 4mm straig right angle) with color-cod	ds (1.5m) ght, 4mm
	alligator clips (red and bla	
2124.88 2125.52	OX Power Kit AC Leakage Current Probe	50
2126.01	Model 2620 Simple Logger® II	46, 47
2126.02	Model CL601	30
	Simple Logger® II Model L101	31
2126.03	Simple Logger® II Model L102	31



Cat. No		No.
2126.05	Simple Logger® II Model L261	32
2126.06	Simple Logger® II	
2126.07	Model L322	34
2126.07	Simple Logger® II Model L432	34
2126.08	Simple Logger® II	-00
2126.35	Model L642 Simple Logger® II	36
	Model L562	33
2127.76	Tone Receiver/Cable Tracer Model TR03 25,	26, 27
2127.80	Fault Mapper®	
 2127.81	Model CA7024 Fault Mapper Pro®	26
	Model CA7026	27
2127.82	Wire Mapper Pro®	25
2127.90	Model CA7028 Wire Mapper Pro®	25
	Remote ID's (2 – 5)	25
2127.91	Wire Mapper Pro® Remote ID's (6 – 9)	25
2129.50	TRMS Clamp-On Meter	
2129.51	Model F09 TRMS Clamp-on Meter	67
	Model F01	67
2129.52	TRMS Clamp-on Meter	67
2129.53	Model F03 TRMS Clamp-on Meter	67
	Model F05	67
2129.54	TRMS Clamp-on Meter Model F07	67
2129.80	10A Micro-Ohmmeter Model 6240	G/
2129.81	10A Micro-Ohmmeter	64
	Model 6250	65
2129.95	RTD Temperature Probe for Micro-Ohmmeter Model 6250	65
2129.96	RTD Temperature Probe	C.F
2130.01	w/7 ft extension cable Megohmmeter Model 1050	4, 68
2130.03	Megohmmeter Model 1060	4, 68
2130.06	DC Power Supply Model AX502	5 2
2130.07	DC Power Supply	52
	Model AX503	52
2130.20	Megohmmeter Model 5050	6, 68
2130.21 2130.30	Megohmmeter Model 5060 Megohmmeter Model 5070	6, 68 6, 68
2130.43	Ground Resistance Tester	0,00
2130.44	Model 4620 Ground Resistance Tester	22, 69
		22, 69
2130.60	Tape Measure (100 ft)	22
2130.66 2130.75	DMM Model MX 57EX IECEx PowerPad® Model 3945-B	66
	w/MN93 (200A)	12
2130.76	PowerPad [®] Model 3945-B w/SR193 (1200A)	12
2130.77	PowerPad® Model 3945-B	
2120 70	w/24" 6500A AmpFlex® 193-24	12
2130.78	PowerPad [®] Model 3945-B w/36" 6500A AmpFlex [®] 193-36	12
2130.79	PowerPad® Model 3945-B	
2130.80	w/MR193 PowerPad® Model 3945-B	12
	w/MN193	12
	A FRAO®	

Cat. No. 2131.12	Model No. Pag Non-Contact High Voltage	je No.
2131.22	Detector Model 275HVD Resistance Decade Box	62
2131.23	Model BR04 Resistance Decade Box	49
2131.24	Model BR05 Resistance Decade Box	49
	Model BR06	49
2131.25	Resistance Decade Box Model BR07	49
2131.26	Capacitance Decade Box Model BC05	49
2131.27	Inductance Decade Box Model BL07	49
2134.10	Sentinel [®] Voltage Logger Model SDL V301	28
2134.11	Sentinel® Voltage Logger Model SDL V401	28
2134.15	Sentinel® Current Logger Model SDL A301	28
2134.16	Sentinel® Current Logger Model SDL A302	28
2134.17	Sentinel® Current Logger	
2134.18	Model SDL A303 Sentinel® Current Logger	28
2134.19	Model SDL A304 Sentinel® Current Logger	28
2134.20	Model SDL A401 Sentinel® Current Logger	28
2134.21	Model SDL A402 Sentinel® Current Logger	28
	Model SDL A401 Kit (4-Channel, three 1000A	
	24" AmpFlex® w/BNC Input, rechargeable NiMH batteries,	
	120V US wall charger, carrying bag)	28
2134.22	Sentinel® Current Logger Model SDL A401 Kit	
	(4-Channel, four 1000A 24" AmpFlex® w/BNC Input,	
	rechargeable NiMH batteries, 120V US wall charger,	
2134.23	carrying bag) Sentinel® Current Logger	28
	Model SDL A401 Kit (4-Channel, three 3000A	
	36" AmpFlex® w/BNC Input, rechargeable NiMH batteries,	
	120V US wall charger, carrying bag)	28
2134.24	Sentinel [®] Current Logger Model SDL A401 Kit	
	(4-Channel, four 3000A 36" AmpFlex® w/BNC Input,	
	rechargeable NiMH batteries, 120V US wall charger,	
2135.01	carrying bag) Ground Resistance Tester	28
2135.02	Model 6470 Ground Resistance Tester	20, 69
2135.03	Model 6470 Kit – 150 ft Ground Resistance Tester	20, 69
2135.04	Model 6470 Kit – 300 ft Ground Resistance Tester	20, 69
2135.10	Model 6470 Kit – 500 ft Ground Resistance Tester	20, 69
	Model 3620 Kit – 150 ft	23, 69
2135.11	Ground Resistance Tester Model 3620 Kit – 300 ft	23, 69
2135.12	Ground Resistance Tester Model 3620 Kit – 500 ft	23, 69
2135.13	Ground Resistance Tester Model 3640 Kit – 150 ft	23, 69
2135.14	Ground Resistance Tester Model 3640 Kit – 300 ft	23, 69
2135.15	Ground Resistance Tester Model 3640 Kit – 500 ft	25, 73
2135.16	Ground Resistance Tester Model 4610 Kit – 150 ft	23, 69
2135.17	Ground Resistance Tester Model 4610 Kit – 300 ft	23, 69
2135.18	Ground Resistance Tester	
2135.19	Model 4610 Kit – 500 ft Ground Resistance Tester	23, 69
2135.20	Model 4620 Kit – 150 ft Ground Resistance Tester	22, 69
2135.21	Model 4620 Kit – 300 ft Ground Resistance Tester	22, 69
2135.22	Model 4620 Kit – 500 ft Ground Resistance Tester	22, 69
2135.23	Model 4630 Kit – 150 ft Ground Resistance Tester	22, 69
	Model 4630 Kit – 300 ft	22, 69

2135.24 2135.35 2135.36 2135.37	Ground Resistance Tester Model 4630 Kit – 500 ft	
2135.36		22, 69
	Test Kit for 3-Point Testin	
	Test Kit for 4-Point Testin	
	Test Kit for 4-Point Testin	
135.38	Test Kit for 3-Point Testin	
135.51	Ground Resistance Tester Model 6472	
135.52	Ground Resistance Tester Model 6472 Kit – 150 ft	
135.53	Ground Resistance Tester Model 6472 Kit – 300 ft	
135.54	Ground Resistance Tester Model 6472 Kit – 500 ft	18, 69
135.71	AC Current Probe Model MN82	18
2135.72	AC Current Probe Model SR182	18
2140.09	Set of three color-coded MN93 probes (240A) with 10 ft leads	13
2140.10	Set of three color-coded SR193 probes (1200A)	
140.11	Set of three color-coded 24" AmpFlex® 193-24 pro	nhes
140.12	(6500A) with 10 ft leads Set of three color-coded	13
	36" AmpFlex® 193-36 pro (6500A) with 10 ft leads	bes 13
140.13	Set of three color-coded MR193 probes (1000Aac/ with 10 ft leads	1400Apc) 13
140.14	Set of three color-coded MN193 probes (6A/120AA with 10 ft leads	c)
140 17		13
140.17 140.24	5A Adapter box	13
140.24	Set of three color-coded MN93-30 probes (240A) with 30 ft leads	13
40.25	Set of three color-coded SR193-30 probes (1200A)	
140.26	with 30 ft Leads Set of three color-coded	13
	24" AmpFlex® 193-24-30 (6500A) with 30 ft leads	probes 13
140.27	Set of three color-coded 36" AmpFlex® 193-36-30	probes
140.28	(6500A) with 30 ft leads One AC/DC Current Probe	
	Model MR193-BK (black ((1000Aac/1400Abc)	connector) 13, 15
140.29	Set of three color-coded MN193-30 probes (6A/12 with 30 ft leads	OA)
140.30	Set of three color-coded MR193-30 probes (1000A 1400Apc) with 30 ft leads	
140.61	Set of four color-coded 30 ft voltage leads (rated 600V Cat.IV 10A)	13
140.62	Lead-Set of 2, color-code w/color-coded alligator c (red/black)	d 5 ft (1.5M)



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AEMC offers one-day training seminars throughout the USA on Ground Resistance Testing, Insulation Resistance Testing and Power Quality. Public and private courses are available.

For the schedule of upcoming training seminars contact **seminars@aemc.com**, visit our website at **www.aemc.com** or call **(800) 343-1391**.



Understanding Ground Resistance Testing

For field engineers, technicians, utility engineers, supervisors, electricians and inspectors who need or have an interest in testing and certifying electrical power grounding systems.

Key topics covered include:

- Soil Resistivity
- Ground Resistance
- 3-Point Measurements
- 4-Point Measurements
- Clamp-On Measurements
- Step and Touch Potential Measurements



Understanding Insulation Resistance Testing

For field engineers, technicians, supervisors, electricians, plant maintenance personnel and inspectors who need or have an interest in insulation resistance testing on motors, cables and transformers.

Key topics covered include:

- Motor Theory
- Spot Testing
- Timed Tests
- Polarization Index
- Dielectric Discharge Testing
- Temperature correction of test results



Understanding Power Quality

For field engineers, technicians, supervisors, electricians, plant maintenance personnel and inspectors who need or have an interest in monitoring, recording and analyzing power quality.

Key topics covered include:

- Why power quality is important to you
- Symptoms and problems associated with poor power quality
- Types of disturbances and how to tell them apart
- Harmonic analysis what, why and how to measure
- THD what is it and how much is too much
- Power Factor what is it, why know it and how to measure it



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New Products



Simple Logger® II TRMS Current Module L102 Page 31



Simple Logger® II Model L562 Page 33



Ground Resistance Tester Model 6472 Page 18



Simple Logger® II **TRMS Voltage Module L261** Page 32



Simple Logger® II Model L642 Page 36

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