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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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Digital/Analog Megohmmeter Models 1030, 1040 & 1045



TATING					
SPECIFICATIONS					
MODELS		1030	1040	1045	
INSULATION TI	ESTS				
Test Voltage	250V	50k Ω to 2000M Ω (2G Ω)	-	50k Ω to 2000M Ω (2G Ω)	
	500V	100k Ω to 2000M Ω (2G Ω)	100k Ω to 2000M Ω (2G Ω)	100k Ω to 2000Μ Ω (2G Ω)	
	1000V	-	200k Ω to 2000M Ω (2G Ω)	200k Ω to 2000M Ω (2G Ω)	
Short Circuit Cur	rent		≤3mA		
Accuracy	<40MΩ ≥40MΩ	±3% of Reading ± 5cts ±3% of Reading ± 2cts			
Voltage Test/Saf	ety Check	0 to 600Vac/dc			
Voltage Warning Indicator >25V					
Test Inhibition		Yes >25V			
RESISTANCE T	ESTS (MOD	ELS 1040 AND 1	045)		
Measurement Ra	inge	_	0.0 to	400kΩ	
Test Voltage		_	7 t	o 9V	
Test Current		-	60	0μΑ	
Accuracy	$>4k\Omega$	 ±3% of Reading ± 1ct 			
CONTINUITY TESTS					
Measurement Range $0.00 \text{ to } 19.99\Omega$					
Test Current		≥200mA			
Accuracy		±3% of Reading ± 1ct			
ELECTRICAL					
Power Source		6 x 1.5V AA Alkaline batteries (included)			

For motors, cables, switchgear and general applications

- True Megohmmeter®
- Test voltage combinations of 250V, 500V and 1000V
- Insulation measurements to $2000M\Omega$ ($2G\Omega$)
- 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)	\$579.00	\$94.00
2116.93	Megohmmeter Model 1045 (Digital, with Analog Bargraph, Alarm, Timer, Backlight, 250V, 500V, 1000V, 400kΩ, Continuity)	\$649.00	\$94.00
2117.30	Megohmmeter Model 1040 Field Kit	\$889.00	\$94.00
2117.31	Megohmmeter Model 1045 Field Kit	\$949.00	\$94.00
Accessories (Optional			
2118.97	Remote Test Probe	\$194.00	-
2118.98	Field Case (Waterproof)	\$160.00	-
2118.99	Hands-Free Carrying Case	\$ 75.00	-



Multi-Function Voice, Data, Video Cable Testing Megohmmeter

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 61010-1, 600V CAT III, EN 61557



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







SPECIFICATIONS					
MODELS		1035	1039		
INSULATION TE	STS				
Test Voltage	50V	10 k Ω to 2000 M Ω (2 G Ω)	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	100kΩ to 20,000MΩ (20GΩ)	-		
Open Circuit Volta	age	<75V @ 50V, <150V @ 100V, <	<375V @ 250V, <750V @ 500V		
Short Circuit Curi	rent	≤3	mA		
Accuracy		±3% of Rea	ading ± 5cts		
Voltage Test/Safe	ety Check	0 to 60	OVac/dc		
Voltage Warning	Indicator	>25V			
Test Inhibition		Yes >25V			
RESISTANCE TESTS					
Measurement Ra	nge	0.0 to 400kΩ 0.0 to 40.0kΩ			
Test Voltage		7 to 9V	7 to 9V		
Test Current		600μA < 400 Ω; 6 μA > 40 Ω	600μA < 400 Ω		
Accuracy	$>$ 400k Ω	$\pm 3\%$ of Reading \pm 1ct	$\pm 3\%$ of Reading \pm 1ct		
CURRENT TEST	S				
AC Current Range	e	-	0.00 to 400mA (240A) (with probe option)		
CAPACITANCE/	CABLE LE	NGTH			
Capacitance Ran	ge	- 0.00 to 4000nF			
Cable Length Range		-	0.000 to 80.0km		
VOLTAGE TESTS	S				
Measurement Range		-	0 to 400Vac		
Accuracy		-	$\pm 3\%$ of Reading \pm 1ct		
ELECTRICAL					
Power Source		6 x 1.5V AA Alkaline batteries (included)			

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2116.90	Megohmmeter Model 1035 (Digital, with Analog Bargraph, Alarm, Backlight, 50V, 100V, 250V, 500V, 400k Ω)	\$699.00	\$94.00
2116.91	Megohmmeter Model 1039 (Digital, with Analog Bargraph, Alarm, ΔRel, Backlight, 50V, 100V, mA, nF, km)	\$799.00	\$94.00
2115.42	Megohmmeter Model 1035 Field Kit	\$999.00	\$94.00
Accessories (Optional)			
2118.97	Remote Test Probe	\$194.00	=
2118.98	Field Case (Waterproof)	\$160.00	-
2118.99	Hands-Free Carrying Case	\$ 75.00	-

1000V Digital/Analog Megohmmeter Models 1050 & 1060



SPECIFICATIONS					
MODELS	DELS 1050 1060				
INSULATION TESTS					
Test Voltage	50V 100V 250V 500V 1000V	2kΩ to 200 GΩ 4 kΩ to 400 GΩ 10 kΩ to 1000 GΩ 10 kΩ to 1000 GΩ $(2$ TΩ) 40 kΩ to 400 GΩ $(2$ TΩ) 40 kΩ to 400 GΩ $(2$ TΩ)			
	$k\Omega$ to $400G\Omega$ $00G\Omega$ to $4T\Omega$		ading ± 3cts ading ± 10cts		
Voltage Test/Safety Cl	heck	0 to 10	OOVAC/DC		
Voltage Warning Indic	ator		25V		
Test Inhibition		100	>25V		
Smooth Function		Yes			
RESISTANCE TESTS	;				
Measurement Range		0.01Ω to 400 k Ω			
Test Voltage 12.4Vpc max			oc max		
Test Current		<6mApc			
Accuracy		±3% of Re	ading ± 3cts		
CONTINUITY TESTS					
Measurement Range		0.01 to	39.99Ω		
Test Current		≥200mA from	0.01 to 20.00Ω		
Accuracy		±3% of Re	ading ± 4cts		
COMMUNICATION					
Memory of Reading o	ver Time R(t)	Yes (20 Readings)	Yes (128kB memory)		
Report Print Out Direc	t to Printer	No Preset format			
Memory of Test Resul		No 128kB memory with RS-232			
PC Software/Report G	eneration	No DataView® (included)			
ELECTRICAL					
Power Source		Eight 1.5V C Cells 9.6V NiMH Battery Pack (included) (included) 85 to 256V (50/60Hz)			

Features

- True Megohmmeter®
- Test voltage selections 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 to DataView® for easy report printing
- 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)	\$1,519.00	\$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)	\$1,899.00	\$98.00
2118.97	Remote Test Probe	\$ 194.00	-



Features

- True Megohmmeter®
- · Simple operation
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from $30k\Omega$ to $10T\Omega$ (10,000G Ω)
- Adjustable and programmable test voltage (40 to 5100V)
- Automatic calculation of DAR and PI values
- · Direct measurement and display of Capacitance and Leakage Current
- · Display resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Automatic test inhibition (if live sample >25V)
- Automatic discharge and display of discharge voltage
- · Large backlight LCD dual-display with time, voltage and measurements shown
- · Rugged, dual wall, weatherproof field case
- · Designed and built to IEC safety standards
- EN 61010-1, 1000V CAT III



Includes Megohmmeter, extra-large classic tool bag, three color-coded leads, three alligator clips, 0.35m guarded jumper cable, batteries and user manual.

5000V Megohmmeter Model 6505



SPECIFICATIONS	
MODEL	6505
INSULATION TESTS	
Test Voltage/Range 500V 1000V 2500V 5000V	30k Ω to 2000G Ω (2T Ω) 100k Ω to 4000G Ω (4T Ω) 100k Ω to 10,000G Ω (10T Ω) 300k Ω to 10,000G Ω (10T Ω)
User Programmable Test	40 to 1000V: 10V increments 1000 to 5100V: 100V increments
Short Circuit Current	<1.6mA ± 5%
Accuracy $\begin{array}{c} 10 \text{k}\Omega \text{ to } 40 \text{G}\Omega \\ 40 \text{G}\Omega \text{ to } 10 \text{T}\Omega \end{array}$	±5% of Reading ± 3cts ±15% of Reading ± 10cts
DAR (1 min/30 sec)	0.02 to 50.00
PI (10 min/1 min & user programmable)	0.02 to 50.00
Capacitance Measurement	0.005 to 49.99µF; Max resolution 1nF
Leakage Current Measurement	0.00nA to 3mA; Max resolution 1pA
Programmable Run Time R(t)	1 to 60 minutes
Discharge After Test	Yes, automatic
Discharge Voltage Display	Yes
Voltage Test/Safety Check	0 to 1000Vac/dc (16 to 420Hz); 1V Resolution
Voltage Warning Indicator	Yes >25V
Test Inhibition*	Yes >25V
Guard Terminal	Yes
ELECTRICAL	
Power Source	Eight NiMH rechargeable batteries (included); Line power: 85 to 256Vac (50/60Hz)

*Inhibit voltage is selectable at 3, 10 or 20% of test voltage

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, 500V, 1000V, 2500V, 5000V, Auto DAR/PI)	\$2,295.00	\$142.00
Accessories (Optiona	al)		
2119.76	Lead – Set of 3, color-coded 10ft 5kv Safety w/3 color-coded Alligator Clips, for use with Megohmmeter Models 5050/5060/5070/6505	\$ 335.00	_
2119.77	Lead – Replacement, Set of 3, Color-coded 6ft 5kV safety for Megohmmeter Model 6505	\$ 299.00	_
2119.85	Lead – Set of 3, color-coded 10ft 5kV Safety with Integral Hippo Clips, and jumper lead for use with Megohmmeter Model 6505 (replacement for 5050/5060/5070)	\$ 439.00	-
2119.86	Lead – Set of 3, color-coded 25ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 [Jumper lead not included]	\$ 595.00	-
2119.87	Lead – Set of 3, color-coded 45ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 [Jumper lead not included]	\$ 895.00	-



5000V Digital/Analog Megohmmeter Models 5050 & 5060



SPECIFICATIONS					
MODELS	5050 5060				
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	40 to 1000V: 1	nmable: 0V increments; 100V increments			
Automatic Step Voltage	-	-			
$ \begin{array}{ccc} \textbf{Accuracy} & 1 k \Omega \text{ to } 40 G \Omega \\ & 40 G \Omega \text{ to } 10 T \Omega \end{array} $	±5% of Reading ± 3cts ±15% of Reading ± 10cts				
Voltage Test/Safety Check	0 to 100	OVAC/DC			
Voltage Warning Indicator	Voltage Warning Indicator Yes >25V				
Test Inhibition*	Yes — adjustable from 25 to 1000V depending on test voltage range in use				
Smooth Function (user selectable)	Digital filtering stabil	izes display readings			
COMMUNICATION					
Storage of Readings over Time R(t)	4kB memory	128kB memory			
Report Print Out Direct to Printer	Report Print Out Direct to Printer No Preset format				
Storage of Test Results	20 Readings	Stores over 1500 test results			
Communication Port	_	RS-232			
PC Software/Report Generation	No	DataView® (included)			
ELECTRICAL	ELECTRICAL				
Power Source	Eight 1.2V rechargeable batteries (included) – line power: 85 to 256V (50/60Hz)				

^{*}Inhibit voltage is selectable at 3, 10 or 20% of test voltage

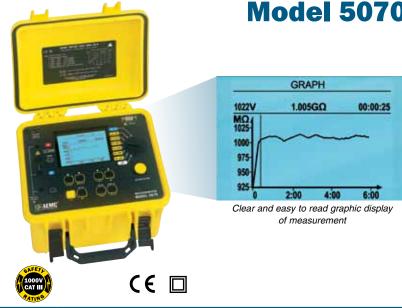
- True Megohmmeter®
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from $30k\Omega$ to $10,000G\Omega$ ($10T\Omega$)
- Selectable and programmable test voltage (40 to 5100V)
- · Automatic calculation of DAR, PI and DD ratios
- · Direct measurement and display of Capacitance 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
- Bright blue electroluminescent backlight
- · Programmable test voltage lock-out
- Programmable alarm setting
- Auto power-down when not in use
- 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

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)	\$2,795.00	\$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)	\$3,195.00	\$142.00



5000V Graphical Megohmmeter Model 5070

- True Megohmmeter®
- Test voltage selections 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
- · Graphic and digital display of test voltage, resistance and more
- Bright blue electroluminescent backlight
- Programmable test voltage lock-out
- · Programmable alarm setting
- Auto power-down when not in use
- 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		
MODEL	5070	
INSULATION TESTS		
Test Voltage 500V 1000V 2500V 5000V	30kΩ to 2000GΩ (2TΩ) 100kΩ to 4000GΩ (4TΩ) 100kΩ to 10,000GΩ (10TΩ) 300kΩ to 10,000GΩ (10TΩ)	
User Selectable Test Voltage	Programmable: 40 to 1000V: 10V increments; 1000 to 5100V: 100V increments	
Automatic Step Voltage	Programmable step voltage and duration up to five steps. Three profiles 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 1000V _{AC/DC}	
Voltage Warning Indicator	Yes >25V	
Test Inhibition*	Yes — adjustable from 25 to 1000V depending on test voltage range in use	
Smooth Function (user selectable)	Digital filtering stabilizes display readings	
COMMUNICATION		
Storage of Readings over Time R(t)	128kB memory	
Report Print Out Direct to Printer	Preset format	
Storage of Test Results	Stores over 1500 test results	
Communication Port	RS-232	
PC Software/Report Generation	DataView® (included)	
ELECTRICAL		
Power Source	Eight 1.2V rechargeable batteries (included) – line power: 85 to 256V (50/60Hz)	

^{*}Inhibit voltage is selectable at 3, 10 or 20% of test voltage

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
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)	\$3,995.00	\$142.00
Accessories			
2119.45	Cable, PC RS-232, DB9 F/F 6 ft Null Modern Cable (for use with Models 1060, 5060 & 5070)	\$ 16.95	-
2119.46	Cable, PC RS-232, DB9 F/F 6 ft (for serial printer)	\$ 11.95	-
2119.76	Lead – Set of 3, Color-coded 10 ft 5kV Safety w/3 color-coded Alligator Clips, for use with Megohmmeter Models 5050/5060/5070/6505	\$ 335.00	-
2119.85	Lead – Set of 3, Color-coded 10 ft 5kV Safety with Integral Hippo Clips, and jumper lead for use with Megohmmeter Models 5050/5060/5070/6505	\$ 439.00	-
2119.86	Lead – Set of 3, Color-coded 25 ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 [Jumper lead not included]	\$ 595.00	-
2119.87	Lead – Set of 3, Color-coded 45 ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 [Jumper lead not included]	\$ 895.00	-



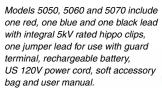
FEATURES & FUNCTIONS				
MODELS	6505	5050	5060	5070
Test Voltage 500V	✓	1	1	✓
1000V	✓	✓	✓	✓
2500V	✓	✓	✓	✓
5000V	1	1	1	✓
Selectable 40 to 5100V	✓	1	1	✓
Step Voltage	-	-	-	✓
Rechargeable Batteries	1	✓	✓	✓
AC Powered	1	✓	✓	✓
Smooth Function	-	1	1	1
Alarm Function	-	1	1	1
Test Voltage Lockout	-	1	1	1
Timer Function	-	1	1	1
Record Function	-	-	1	1
Print Function	-	-	1	✓
Graph Function	-	-	_	1
Temperature Correction Function	-	-	-	1
Software Included	_	_	/	1

Models 5060 & 5070 include these additional features

- RS-232 interface to DataView® for easy report printing
- 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 9)

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





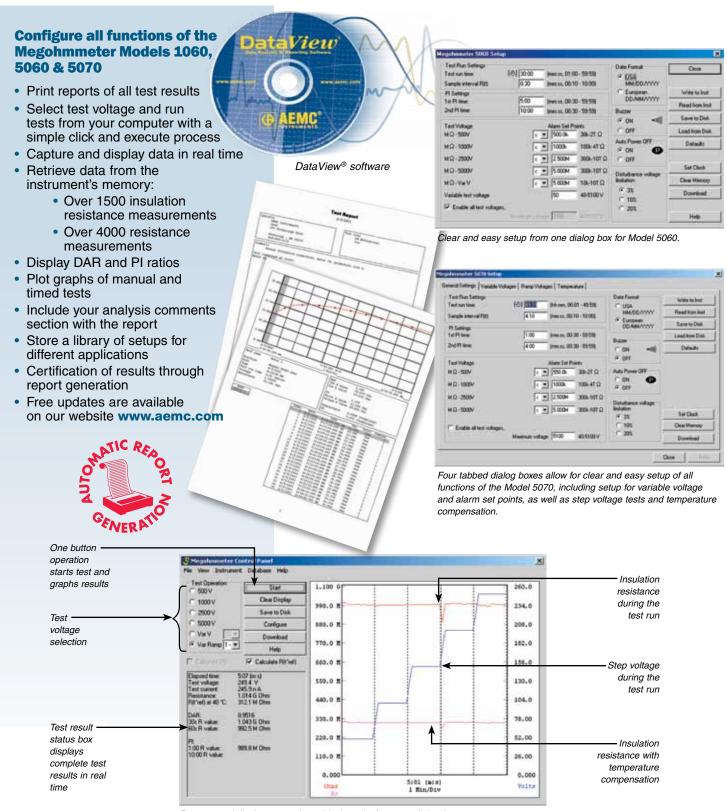
Models 5060 and 5070 also include PC RS-232, DB9 F/F 6 ft null modem cable and DataView® software.





Data View®

Data Analysis and Reporting Software for Megohmmeters



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



1000V Megohmmeter Model 1015



(€ □

SPECIFICATIONS MODEL 1015 **INSULATION TESTS Test Voltage** 500V 0.1 to 1000M Ω 0.1 to 1000M Ω 1000V **Short Circuit Current** ≤6mA (max) Accuracy ±5% of Reading **Voltage Test/Safety Check** 0 to 600VAC **RESISTANCE TESTS Measurement Range** 0 to 1000 Ω **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 $300k\Omega$ **ELECTRICAL Power Source** 4 x 1.5V AA Alkaline batteries (included)

- True Megohmmeter®
- Test voltage selections 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 includes 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.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1403.01	Megohmmeter Model 1015 (Analog, 500V, 1000V, Resistance, Continuity)	\$589.00	\$96.00



1000V Digital Megohmmeter Model 1026

- Test voltage selections 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
- EN 61010-1, 1000V CAT II, 600V CAT III













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

AIR	Alle
SPECIFICATIONS	
MODEL	1026
INSULATION TESTS	
Test Voltage 250 500 1000	0V 1kΩ to 4000 MΩ
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
ELECTRICAL	
Power Source	8 x 1.5V AA Alkaline batteries (included)

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

500V Hand-cranked Megohmmeter Model 6501 1000V Hand-cranked Megohmmeter Model 6503



- True Megohmmeter®
- Test voltages of 250V, 500V and 1000V
- Insulation measurements to 200 and $5000 M\Omega$
- LED indicates constant voltage output and proper cranked speed controlled by voltage regulator
- Automatic discharge when measurement is finished
- Auto-Ranging dual scale operation for better sensitivity and easier readings
- Compact self-contained package; folded crank
- Voltage displayed prior to, during and at the end of test
- · Large direct reading scale
- EN 61010-1, 600V CAT II, 300V CAT III

			,		
SPECIFICAT	TIONS				
MODELS		6501	6503		
INSULATION TE	STS				
Test Ranges*	250V	-	1 to 11M Ω ; 11 to 500M Ω		
	500V	up to $200 M\Omega$	1 to 11M Ω ; 11 to 500M Ω		
	1000V	· –	10 to 110M Ω ; 110 to 5000M Ω		
Short Circuit Curr	ent	5mA	(max)		
Voltage Measuren Safety Check	nent/	0 to 6	600Vac		
Accuracy (M Ω)		2.5% of Full Scale Length	2% of Full Scale Length		
Automatic Discha	rge	5s/μF	8s/μF		
Charge Time	250V	0.5s/μF	0.2s/μF		
	500V	_	0.5s/μF		
	1000V	-	0.5s/μF		
RESISTANCE TE	STS				
Measurement Rar	nge	0 to 45k Ω ; 45 to 500k Ω	_		
Test Current		1mAdc	_		
Accuracy		2.5% of Full Scale Length	_		
CONTINUITY TE	CONTINUITY TESTS				
Measurement Rar	nge	0 to 9Ω ; 9 to 100Ω	-		
Test Voltage		5mApc (10V max)	_		
Accuracy		2% of Full Scale Length			
*DC Test voltage generated 5.5 to 200M Ω in full across the entire measurement range.					



Includes test leads, clips, test probe, soft carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.51	Megohmmeter Model 6501 (Hand-cranked, 500V, 500k Ω , Continuity)	\$495.00	\$94.00
2126.52	Megohmmeter Model 6503 (Hand-cranked, 250V, 500V, 1000V)	\$595.00	\$94.00

AEMC Model Number	AEMC CATALOG NUMBER	TEST Voltage	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE TEST	POWER SOURCE	DISPLAY
1030	2116.89	250V 500V	50k to 2G Ω 100k to 2G Ω	_	0.00 to 19.99Ω	_	0 to 600Vac/dc	Battery	Digital/ Analog
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	_	_	0 to 600Vac/dc	Battery	Digital/ Analog
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	_	_	0 to 600Vac/dc	Battery	Digital/ Analog
1039	2116.91	50V 100V	10k to 400M Ω 20k to 400M Ω	0.0 to 40.0kΩ	_	0 to 4000nF	0 to 600Vac/dc	Battery	Digital/ Analog
1040	2116.92	500V 1000V	100k to $2G\Omega$ 200k to $2G\Omega$	0.0 to 400 k Ω	0.00 to 19.99Ω	_	0 to 600Vac/dc	Battery	Digital/ Analog
1045	2116.93	250V 500V 1000V	50k to 2G Ω 100k to 2G Ω 200k to 2G Ω	0.0 to 400 k Ω	0.00 to 19.99Ω	-	0 to 600Vac/dc	Battery	Digital/ Analog
1040 Field Kit	2117.30	500V 1000V	100k to $2G\Omega$ 200k to $2G\Omega$	0.0 to 400kΩ	0.00 to 19.99Ω	_	0 to 600Vac/dc	Battery	Digital/ Analog
1045 Field Kit	2117.31	250V 500V 1000V	50k to 2G Ω 100k to 2G Ω 200k to 2G Ω	0.0 to 400 k Ω	0.00 to 19.99Ω	_	0 to 600Vac/dc	Battery	Digital/ Analog
1050	2130.01	50V 100V 250V 500V 1000V	2 k to 200 G Ω 4 k to 400 0G 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	_	O to 1000Vac/dc	Battery	Digital/ Analog
1060	2130.03	50V 100V 250V 500V 1000V	2k to 200G Ω 4k to 4000G Ω 10k to 1T Ω 20k to 2T Ω 40k to 4T Ω	0.01 to 400kΩ	0.01 to 39.99Ω	_	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog
6505	2130.18	500V 1000V 2500V 5000V	30kΩ to 2000GΩ 100kΩ to 4000GΩ 100kΩ to 10,000GΩ 300kΩ to 10,000GΩ	_	_	0.005 to 49.99μF	0 to 1000Vac/bc	Rechargeable NiMH Battery	Digital/ Analog
5050	2130.20	500V 1000V 2500V 5000V	30k to 2T Ω 100k to 4T Ω 100k to 10T Ω 300k to 10T Ω	_	_	0 to 49.99μF	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog
5060	2130.21	500V 1000V 2500V 5000V	30k to 2T Ω 100k to 4T Ω 100k to 10T Ω 300k to 10T Ω	_	_	0 to 49.99μF	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog
5070	2130.30	500V 1000V 2500V 5000V	30k to 2T Ω 100k to 4T Ω 100k to 10T Ω 300k to 10T Ω	_	_	0 to 49.99μF	0 to 1000Vac/bc	Rechargeable NiMH Battery	Digital/ Analog
1015	1403.01	500V 1000V	0.1 to 1000MΩ 0 to 1000MΩ	0 to 1000Ω	0 to 10.0Ω±	_	0 to 600Vac	Battery	Analog
1026	2117.72	250V 500V 1000V	1k to 4000MΩ 1k to 4000MΩ 1k to 4000MΩ	400 to 4000Ω	≤40	_	0 to 600 V AC	Battery	Digital/ Analog
6501	2126.51	500V	0.5 to 200MΩ	0 to $500 k\Omega$	0 to 100Ω	_	0 to 600Vac	Hand-cranked	Analog
6503	2126.52	250V 500V 1000V	1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ	_	_	_	0 to 600Vac	Hand-cranked	Analog



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



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







Three voltage and three current inputs

SPECIFICATIONS		
MODEL	3945-B	
ELECTRICAL		
Sampling Frequency	256 samples/cycle	
Data Storage	4MB partitioned for snapshot, transients, alarms & trend recording	
Voltage (TRMS)	Phase-to-Phase: 960V, Phase-to Neutral: 480V	
Current (TRMS)	MN Clamp: 5mA to 6A/1 to 120A MR Clamp: 10 to 1000Aac, 10 to 1400Abc SR Clamp: 3 to 1200A MiniFlex®: 10 to 1000A 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 (included) 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 display with adjustable brightness & contrast	
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(2), 1000V CAT III, Pollution Degree 2	

⁽¹⁾Crest factor at 6500 = 1

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 real time
- 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 calculated and displayed 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



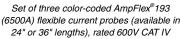
All models include three color-coded current probes with 10 ft leads (AmpFlex® example shown), four color-coded 10 ft voltage leads, four color-coded alligator clips, RS-232 DB9F optically coupled serial cable, NiMH battery, US 120V power cord, DataView® software, carrying bag, soft carrying pouch and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

Choose from a variety of current probe options



current probes, rated 600V CAT IV







Set of three color-coded MR193-BK (1000Aac/1400Abc) current probes, rated 600V CAT III



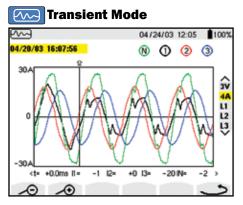
Set of three color-coded MN93 (240A) current probes or MN193 (6A/120A) current probes, rated 600V CAT III

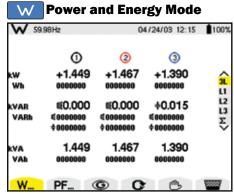


⁽²⁾When used with SR193 or AmpFlex® probes. 600V CAT III with MN193 or MR193 probes.

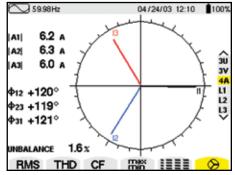
Large Color Display!

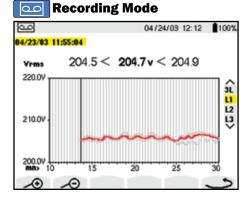
Configuration 04/24/03 12:02 100% ш 4-Wire WYE 3-Wire Delta

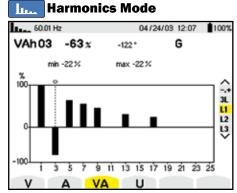












CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.74	PowerPad® Model 3945-B (no probes)	\$3,495.00	\$150.00
2130.75	PowerPad® Model 3945-B w/MN93 (240A)	\$3,695.00	\$190.00
2130.76	PowerPad® Model 3945-B w/SR193 (1200A)	\$3,895.00	\$190.00
2130.77	PowerPad® Model 3945-B w/24" AmpFlex® 193-24 (6500A)	\$3,995.00	\$190.00
2130.78	PowerPad® Model 3945-B w/36" AmpFlex® 193-36 (6500A)	\$4,195.00	\$190.00
2130.79	PowerPad® Model 3945-B w/MR193 (1000Aac/1400Adc)	\$4,095.00	\$190.00
2130.80	PowerPad® Model 3945-B w/MN193 (6A/120Aac)	\$3,995.00	\$190.00
Accessories (Optiona	al)		
2140.09	Set of 3, color-coded MN93 probes (240A) with 10 ft leads	\$ 527.00	-
2140.10	Set of 3, color-coded SR193 probes (1200A) with 10 ft leads	\$ 849.00	-
2140.11	Set of 3, color-coded 24" AmpFlex® 193-24 probes (6500A) with 10 ft leads	\$ 719.00	-
2140.12	Set of 3, color-coded 36" AmpFlex® 193-36 probes (6500A) with 10 ft leads	\$ 999.00	-
2140.13	Set of 3, color-coded MR193 probes (1000Aac/1400Abc) with 10 ft leads	\$1,089.00	-
2140.14	Set of 3, color-coded MN193 probes (6A/120Aac) with 10 ft leads	\$ 699.00	-
2140.17	5A Adapter box (special order only)	_	-
2140.61	Set of 4, color-coded 30 ft voltage leads (rated 600V CAT IV, 10A)	\$ 129.00	-
2140.28	One AC/DC Current Probe Model MR193-BK (black connector) (1000Aac/1400Abc)	\$ 369.00	-
2140.48	One MiniFlex® Sensor 10" Model MA193-10-BK (1000A)	\$ 259.00	-

Three-Phase Power Quality Analyzer PowerPad® Model 8335

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





Four voltage and four current inputs

- cur ronage and	Total Garront inputs
SPECIFICATIONS	
MODEL	8335
ELECTRICAL	
Sampling Frequency	256 samples/cycle
Data Storage	2GB SD Card, 12.5MB partitioned for snapshot, transients, Inrush, alarms & trend recording
Voltage (TRMS)	Phase-to-Phase: 2000V; Phase-to-Neutral: 1000V Voltage Ratio: up to 500kV
Current (TRMS)	MN Clamp: 0 to 6A/120A or 0 to 240A SR Clamp: 0 to 1200A MR Clamp: 0 to 1000Aac, 0 to 1400Abc MiniFlex®: 10 to 1000A AmpFlex®: 10 to 6500A ⁽¹⁾ Current Ratio: 10mA to 50kA
Frequency (Hz)	40 to 69Hz
Other Measurements	kW, kVAR, kVA, PF, DPF, kWh, kVARh, kVAh, K-Factor, Flicker
Harmonics	1st to 50th, Direction, Sequence
Power Source	9.6V NiMH rechargeable battery pack (included) External AC supply: 110/230VAC ±10% (50/60Hz)
Battery Life	≥8 hours with display on; ≤35 hours with display off (record mode)
MECHANICAL	
Communication Port	Optically isolated USB
Display	1/4 VGA (320 x 240) color LCD display with adjustable brightness & contrast
Dimensions	9.8 x 7.8 x 2.6" (250 x 200 x 67mm)
Weight	4.3 lbs (1.95kg)
Safety Rating	EN 61010-1, 600V CAT IV ⁽²⁾ , 1000V CAT III, Pollution Degree 2

(1)Crest factor at 6500 = 1

(2)When used with SR193 or AmpFlex® probes. 600V CAT III with MN193 or MR193 probes.

Features

- Measurement of TRMS voltages up to 1000Vrms AC/DC for two, three, four or five-wire systems
- Measurement of TRMS currents up to 6500Arms (sensor dependent)
- Color coded input ID markers included
- Direct measurement of neutral current & voltage
- Frequency measurement (40 to 69Hz systems)
- Record and display trend data as fast as once per second for one month for up to 25 variables
- Transient detection on all V and I inputs (up to 210A)
- Selectable PT and CT ratios
- Inrush current measurement
- · Calculation of Crest Factors for V and A
- Calculation of the K-Factor for transformers
- · Calculation of short-term flicker
- Calculation of the Three-Phase voltage unbalance
- Harmonic measurements (referenced to the fundamental or RMS value) for voltage, current or power, up to 50th harmonic
- Displays of harmonic sequencing and direction and calculation of overall harmonics
- Real time display of Phasor diagrams including values and phase angles
- Monitors the average value of any parameter, calculated for a period from 1 sec to 2 hrs
- Measurement of active, reactive and apparent power per phase and their respective sum total
- Calculation of power factor, displacement power factor and tangent factor
- Recording, time stamping and characterization of disturbance (swells, sags and interruptions, exceedence of power and harmonic thresholds)
- 2GB internal Trend Recording memory; Alarm, Photo and Transient Inrush memories are separate
- Measurement of energy VAh, VARh & Wh
- The Max and Min RMS measurements are calculated every half-period



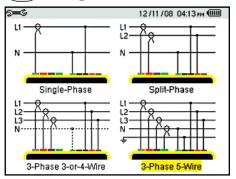
All models include five 10 ft black voltage leads, five black alligator clips, twelve color-coded rings, USB cable, NiMH battery, 110/240V power adapter with US power cord, DataView® software, large classic tool bag, soft carrying pouch and user manual.

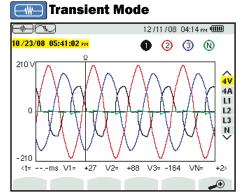
(See page 20 for optional current probes)

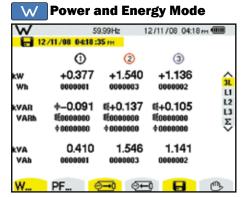


Large Color Display!

Configuration

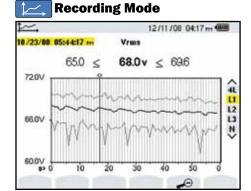


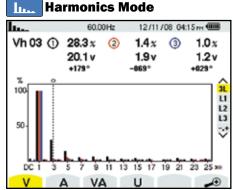




Phasor Diagram







CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2136.20	PowerPad® Model 8335 (no probes)	\$5,145.00	\$150.00
2136.21	PowerPad® Model 8335 w/4 MN93-BK (200A)	\$5,295.00	\$190.00
2136.22	PowerPad® Model 8335 w/4 SR193-BK (1200A)	\$5,495.00	\$190.00
2136.23	PowerPad® Model 8335 w/4 24" AmpFlex® 193-24-BK (6500A)	\$5,595.00	\$190.00
2136.24	PowerPad® Model 8335 w/4 36" AmpFlex® 193-36-BK (6500A)	\$5,795.00	\$190.00
2136.25	PowerPad® Model 8335 w/4 MR193-BK (1000Aac/1400Abc)	\$5,895.00	\$190.00
2136.26	PowerPad® Model 8335 w/4 MN193-BK (5A/100A)	\$5,595.00	\$190.00
2136.27	PowerPad® Model 8335 w/4 MA193-10-BK (1000A)	\$5,695.00	\$190.00
Accessories (Option	al)		
2133.73	Extra Large Classic Tool Bag	\$ 44.00	-
2140.15	Replacement – Soft Carrying Pouch	\$ 19.00	-
2140.17	5A Adapter box (special order only)	-	\$ 94.00
2140.19	Replacement – Battery 9.6V NiMH	\$ 199.50	_
2140.28	AC Current Probe Model MR193-BK (1000Aac/1400Adc)	\$ 369.00	-
2140.32	AC Current Probe Model MN93-BK (200A)	\$ 189.00	-
2140.33	AC Current Probe Model SR193-BK (1200A)	\$ 299.00	-
2140.34	AmpFlex® Sensor 24" Model 193-24-BK (6500A)	\$ 289.00	-
2140.35	AmpFlex® Sensor 36" Model 193-36-BK (6500A)	\$ 339.00	-
2140.36	AC Current Probe Model MN193-BK (5A/100A)	\$ 249.00	-
2140.43	Replacement – Set of 5, 10ft (3m) black leads w/5 black alligator clips	\$ 99.00	-
2140.44	Lead, 1 10ft (3m) black lead w/black alligator clip	\$ 20.00	-
2140.45	Replacement – Set of 12, Color-coded Input ID Markers	\$ 18.50	-
2140.46	Replacement – 5 ft USB cable	\$ 10.95	-
2140.48	One MiniFlex® Sensor 10" Model MA193-10-BK (1000A)	\$ 259.00	-

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 6A/120A or 2 to 240A MR Clamp: 10 to 1000Aac, 10 to 1400Abc SR Clamp: 3 to 1200A MiniFlex [®] : 10 to 1000A AmpFlex [®] : 10 to 6500A ⁽¹⁾		
Frequency (Hz)	40 to 70Hz		
Other Measurements	kW, kVAR, PF, DPF, VA, kWh, kVARh, VAh, 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 (included)		
Battery Life	≥8 hrs with display on ≥40 hrs with display off (recording mode)		
MECHANICAL			
Communication Port	Optically isolated USB		
Display	Three-line backlit color LCD digital display with custom icons and adjustable brightness & contrast		
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
- Measures and records power systems (kW, VA, kVAR)
- Energy metering (kAh, VARh, kWh)
- 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 2000Ω
- 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 (included)
- Operates off batteries or optional power adapter
- Includes DataView® software free for data storage, real-time waveform display, analysis and report generation
- The Max and Min RMS measurements are calculated every half-period



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 and user manual.

An optional AC Power adapter is available.

(See page 20 for optional accessories available for Model 8220.)



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

- 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
- · Measures and records power systems (kW, VA, kVAR)
- Energy metering (kAh, VARh, kWh)
- · 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 (included)
- 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
- The Max and Min RMS measurements are calculated every half-period



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 and user manual.



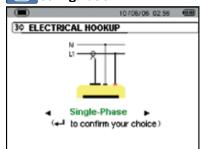
SPECIFICATIONS		
MODEL	8230	
ELECTRICAL		
Voltage (TRMS)	Phase-to-Phase: 660V Phase-to-Neutral: 600V	
Current (TRMS)	MN Clamp: 5mA to 6A/120A or 2 to 240A MR Clamp: 10 to 1000Aac, 10 to 1400Abc SR Clamp: 3 to 1200A MiniFlex®: 10 to 1000A AmpFlex®: 10 to 6500A ⁽¹⁾	
Frequency (Hz)	40 to 70Hz	
Other Measurements	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 NiMH rechargeable battery pack (include AC Supply: 120/230Vac (50/60Hz)		
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 display with adjustable brightness & contrast	
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	

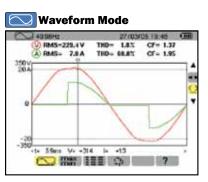
⁽¹⁾Crest factor at 6500 = 1



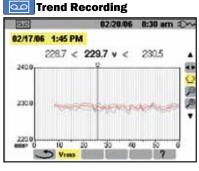
Large Color Display!

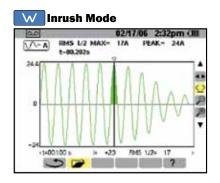


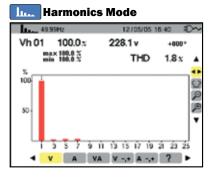








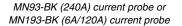




The screens above are a sample of the many available on Models 8220 & 8230

Choose from a variety of current probe options for Models 3945-B, 8335, 8220 & 8230







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

MiniFlex® MA193 (1000A) 10" sensor

(€ □

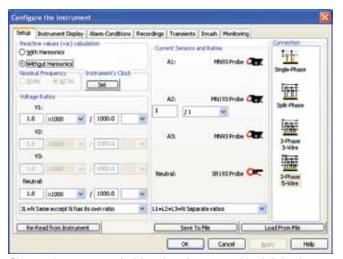
CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.90	Power Quality Meter Model 8220 (no probes)	\$ 979.00	\$98.00
2130.91	Power Quality Meter Model 8220 w/MN93-BK (240A)	\$1,109.00	\$98.00
2130.92	Power Quality Meter Model 8220 w/SR193-BK (1200A)	\$1,219.00	\$98.00
2130.93	Power Quality Meter Model 8220 w/24" AmpFlex® 193-24-BK (6500A)	\$1,229.00	\$98.00
2130.96	Power Quality Meter Model 8220 w/MN193-BK (6A/120A)	\$1,169.00	\$98.00
2130.97	Power Quality Meter Model 8220 w/MA193-10-BK (1000A)	\$1,179.00	\$98.00
2130.81	PowerPad® Jr. Model 8230 (no probes)	\$1,749.00	\$98.00
2130.82	PowerPad® Jr. Model 8230 w/MN93-BK (240A)	\$1,895.00	\$98.00
2130.83	PowerPad® Jr. Model 8230 w/SR193-BK (1200A)	\$1,995.00	\$98.00
2130.84	PowerPad® Jr. Model 8230 w/24" AmpFlex® 193-24-BK (6500A)	\$1,995.00	\$98.00
2130.87	PowerPad® Jr. Model 8230 w/MN193-BK (6A/120Aac)	\$1,949.00	\$98.00
2130.88	PowerPad® Jr. Model 8230 w/MA193-10-BK (1000A)	\$1,959.00	\$98.00
Accessories (Optional for	Models 8230 & 8220)		
2140.37	Adapter - US 110V Power Adapter (eliminates need for batteries) Model 8220	\$ 129.00	-
2140.28	AC Current Probe Model MR193-BK (1000Aac/1400Abc) with 10 ft leads	\$ 369.00	-
2140.32	AC Current Probe Model MN93-BK (240A) with 10 ft leads	\$ 189.00	-
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	\$ 289.00	-
2140.35	AmpFlex® Sensor 36" Model 193-36-BK (6500A)	\$ 339.00	-
2140.36	AC Current Probe Model MN193-BK (6A/120A) with 10 ft leads	\$ 249.00	-
2140.48	MiniFlex® Sensor 10" Model MA193-10-BK (1000A)	\$ 259.00	-

Data View ®

Data Analysis and Reporting Software for Power Quality Meters

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 DataView® software the PowerPad® as needed Zoom in and out and pan through sections of the graph to analyze the · Download, display and analyze Transient Report 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 · Free updates are available on our website www.aemc.com DataView® software provides a convenient way to configure and control power quality from your computer. Through the use of clear and easy-to-use tabbed dialog boxes, all PowerPad® functions can be configured and tests can be initiated. Results can be displayed in real time and stored in your PC. Reports may be printed along with the operator's comments and analysis.

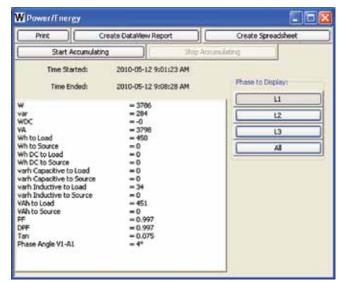
Typical DataView[®] Functional Displays for PowerPad[®]



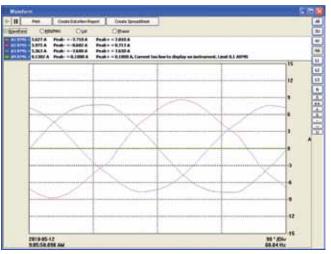
Clear and easy setup of all functions from one tabbed dialog box.



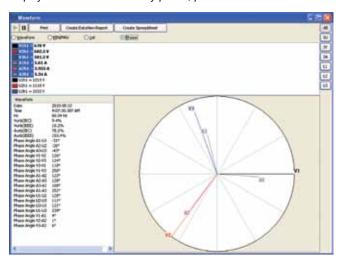
Display all harmonics from 1st to 50th in bargraph form for voltage, current and power.



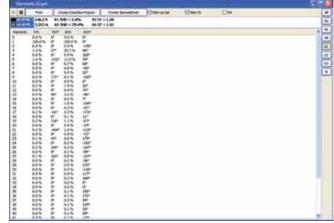
Display power and energy parameters - both instantaneous and total.



Display real-time waveforms by phase, parameter or total.



Display real-time phasor diagrams. Includes unbalance for both voltage and current.



Display harmonics in a text table from harmonic 0 (DC) through the 50° .



- 2- and 4-Wire Bond Resistance/Continuity Measurement (DC Resistance) with automatic polarity reversal
- 3-Pole (3-Point) Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Pole (4-Point) Fall-of-Potential measurement for very low resistance measurements with manual and automatic frequency selection and automatic lead compensation
- 4-Pole (4-Point) Soil Resistivity measurement with automatic calculation of Rho (ρ) and user selection of the Wenner or Schlumberger test method
- 3-Pole (3-Point) Earth Coupling measurement
- Manual and automatic frequency scan from 40 to 513Hz 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 in internal memory
- Optically isolated USB communication cable included
- Display with automatic backlight when entering a function
- Remote set up and operation of all measurements using DataView® software supplied
- Automatic report generation
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case -IP54 rated in closed position
- Grounding standards IEC 61557 parts 4 and 5 compliant
- Includes DataView® software for data storage, real-time display, analysis, report generation and system configuration



The Model 6470-B quickly checks ground rod resistance with its Connect - Press - Read approach.





SPECIFICATIONS			
MODEL	6470-B		
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			
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results displayed in Ω-meters		
Range (Auto-Ranging)	0.01 to 99.99kΩ		
Resolution	0.01 to 100Ω		
Test Voltage	16 or 32V selectable		
Frequency	41 to 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 99.9k Ω ; 4-Point 0.001 to 99.99k Ω		
Accuracy	±2% of Reading + 2cts		
Test Voltage	16Vpc		
Test Current	200mA max		
Data Storage			
Memory Capacity	512 test results (64KB)		
Communication	Optically isolated USB		
Power Source	9.6V NiMH rechargeable battery pack (included)		
Recharging Source	110/120 50/60Hz external charge with 18Vpc, 1.9A output or 12Vpc vehicle power		

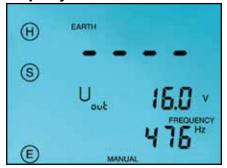
Large Display!

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.

3-Point Fall-of-Potential Test

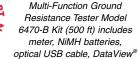


The 3-Point Fall-of-Potential test displays test lead connection, grounding rod resistance and test electrode resistances.

Data Storage



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



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

Schlumberger Test



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

Wenner Test



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



CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2135.01	Ground Resistance Tester Model 6470-B (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)	\$2,250.00	\$99.00
2135.02	Ground Resistance Tester Model 6470-B Kit – 150 ft (Model 6470-B and Catalog #2135.35)	\$2,649.00	\$99.00
2135.03	Ground Resistance Tester Model 6470-B Kit – 300 ft (Model 6470-B and Catalog #2135.36)	\$2,749.00	\$99.00
2135.04	Ground Resistance Tester Model 6470-B Kit – 500 ft (Model 6470-B 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 testing using the 2 clamp method (no auxiliary rods needed)
- 2- and 4-Point 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 (p) and user selection of the Wenner or Schlumberger test method
- 3-Point Earth Coupling measurement
- Manual and Automatic frequency scan from 41 to 513Hz 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 in internal memory
- Display with automatic backlight when entering a function
- Optically isolated USB communication cable included
- Remote set up and operation of all measurements using DataView® software
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case IP54 rated in closed position
- Grounding standards IEC 61557 parts 4 and 5 compliant
- Includes DataView® software for data storage, real-time display, analysis, report generation and system configuration



The Model 6471 performs a fast and easy way to measure the value of the earth/ground using the 2 Clamp method (no auxiliary rods needed).



SPECIFICATIONS					
MODEL 6471					
ELECTRICAL					
2 Clamp Measurement					
Range	0.10 to 500Ω				
Resolution	0.01 to 1Ω				
Measurement Frequency	Auto: 1367Hz Manual: 128Hz-1367Hz-1611Hz-1758Hz				
3-Point Measurement					
Range (Auto-Ranging)	0.09Ω to $99.9k\Omega$				
Resolution	0.01Ω to 100Ω				
Test Voltage	Nominal 16 or 32Vrms user selectable				
Resistance Measurement Frequency	41 to 513Hz automatic or user selectable				
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 in Ω -meters				
Range (Auto-Ranging)	0.01 to 99.99kΩ; ρ Max: 999kΩm				
Resolution	0.01 to 100Ω				
Test Voltage	16 or 32V user selectable				
Frequency	cy From 41 to 128Hz selectable				
External Voltage Measurement					
Range (Auto-Ranging)	0.1 to 65.0Vac/dc - DC to 440Hz				
Accuracy	±2% of Reading + 1ct				
Resistance Measurement (Bond Testing)					
Measurement Type	2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing) user selectable				
Range (Auto-Ranging)	2-Pole 0.01 Ω to 99.9k Ω ; 4-Pole 0.001 Ω to 99.99k Ω				
Accuracy	±2% of Reading + 2cts				
Test Voltage	16Vpc (+, - or auto polarity)				
Test Current	Up to 250mA max				
Data Storage					
Memory Capacity	Memory Capacity 512 test results (64KB)				
Communication	on Optically Isolated USB				
Power Source 9.6V rechargeable battery pack (included)					
Recharging Source	110/220 50/60Hz external charger with 18Vpc, 1.9A output or 12V vehicle power				

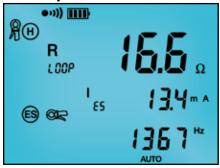
Large Display!

4-Point Bond Test



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

Two Clamp Test



The 2 Clamp method displays clamp connection resistance, test current and frequency.

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



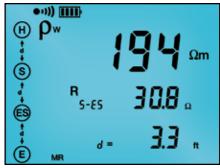
Memory Recall displays test results stored at a specific memory location.

Schlumberger Test



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

Wenner Test



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

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



Includes meter, set of two SR182 current probes,

rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, two 300 ft color-coded leads on spools (red/blue), two 100 ft color-coded leads (hand-tied, green/black), four T-shaped auxiliary ground electrodes, set of five spaded lugs, one 100 ft 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 #2135.50

Current Probe accessory options (For use in two clamp and selective ground testing methods)

AC Current Probe Model MN82 Catalog #2135.71 (Optional)







CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2135.49	Ground Resistance Tester Model 6471 (set of two SR182 current probes, 2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)	\$2,795.00	\$99.00
2135.50	Ground Resistance Tester Model 6471 Kit – 300 ft (Catalog #2135.49 and Catalog #2135.36)	\$3,295.00	\$99.00
Accessories (Optiona	al)		
2135.71*	AC Current Probe Model MN82 for use with Model 6471	\$299.00	-
2135.72*	AC Current Probe Model SR182 for use with Model 6471	\$369.00	-

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



- Ground Resistance testing using the 2 clamp method (no auxiliary rods needed)
- 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 (p) and user selection of the Wenner or Schlumberger test method
- · 3-Point earth coupling measurement
- Measures Ground Impedance at frequencies up to 5kHz to test lightning strike protection
- Manual and automatic frequency scan from 41 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
- Display with automatic backlight when entering a function
- Optically isolated USB communication cable included
- · 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



The Model 6472 performs an automated way to measure the value of the earth/ground using the Fall-of-Potential method and storing measurements.





SPECIFICATIONS					
MODEL	6472				
ELECTRICAL					
3-Point Measurement					
Range (Auto-Ranging)	0.09Ω to 99.9 k Ω				
Resolution	0.01Ω to 100Ω				
Test Voltage	Nominal 16 or 32Vrms user selectable				
Resistance Measurement Frequency	41 to 5078Hz automatic or user selectable				
Test Current	Up to 250mA				
Accuracy	±2% of Reading + 1ct @ 128Hz				
2 Clamp Measurement					
Range	0.1 to 500Ω				
Resolution	0.01 to 1Ω				
Measurement Frequency	Auto: 1367Hz Manual: 128Hz-1367Hz-1611Hz-1758Hz				
Soil Resistivity 4-Point Measuremen					
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results in Ω -meters				
Range (Auto-Ranging)	0.01 to 99.99kΩ; ρ Max: 999kΩm				
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 + 1ct				
Resistance Measurement (Bond Testi	ng)				
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 (64KB)				
Power Source	9.6V rechargeable battery pack (included)				
Recharging Source	110/220 50/60Hz external charger with 18Vpc, 1.9A output or 12V vehicle power				

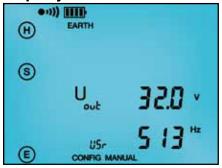
Large Display!

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.

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



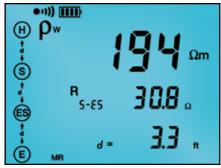
Memory Recall displays test results stored at a specific memory location.

Schlumberger Test



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

Wenner Test



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

OF A PROPERTY OF THE PROPERTY

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 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

Current Probe accessory options (For use in two clamp and selective ground testing methods)

AC Current Probe Model MN82 Catalog #2135.71







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	\$99.00	
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 (Optional) Refer to page 24 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.



DataView

Data Analysis and Reporting Software for Ground Testers

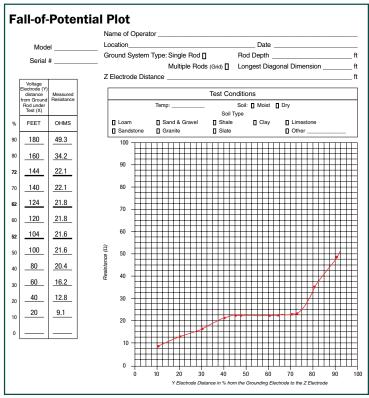
Configure all functions of the Models 6470-B, 6471 & 6472

- Run tests and analyze real-time data from your PC
- Configure all test functions and parameters from your PC
- · Customize views, templates and reports to your exact needs
- Display Fall-of-Potential plots, tabular listings of test results, resistance vs. frequency plots, soil resistivity and bonding tests
- · Print reports using standard or custom templates you design
- Free updates are available on our website www.aemc.com



DataView® software provides a convenient way to configure and control ground resistance tests from your computer. Through the use of clear and easy-to-use tabbed dialog boxes, all ground tester functions can be configured and tests can be initiated. Results can be displayed in real time and stored in your PC. Reports may be printed along with the operator's comments and analysis.

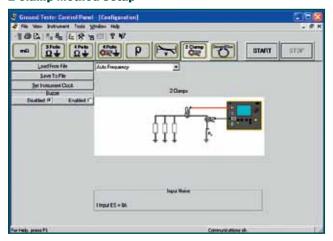




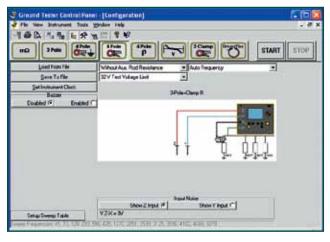
Typical report showing Fall-of-Potential plot using DataView® software.

Typical DataView® Functional Displays for Ground Testers

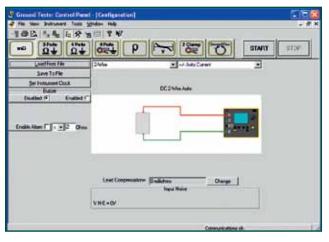
2 Clamp Method Setup



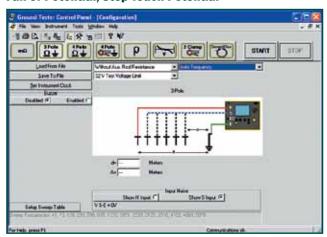
Selective 3-Point Testing of Multiple Rods



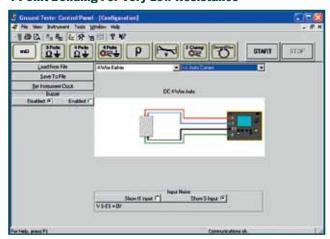
Bonding



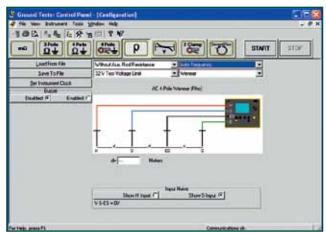
Fall of Potential, Step-Touch Potential



4-Point Bonding For Very Low Resistance



Soil Resistivity





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

All Models 4620 & 4630 include batteries

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 measure 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 measure 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 measure and carrying bag. Catalog #2135.37

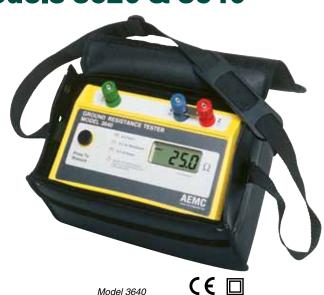
Ground Resistance Tester Models 4620 & 4630



SPECIFICATIONS				
MODELS	4620		4630	
ELECTRICAL				
Range	20Ω	20	0Ω	2000Ω
Measurement Range	0.00 to 19.99Ω	20.0 to	199.9Ω	200 to 1999Ω
Resolution	10m Ω	100	m $Ω$	1Ω
Open Voltage	≤42V peak	≤42V	peak	≤42V peak
Resistance Measurement Frequency	128Hz square wave	128Hz square wave		128Hz square wave
Test Current	10mA	1mA		0.1mA
Accuracy	$\pm 2\%$ of Reading $\pm 1ct$	ct $\pm 2\%$ of Reading ± 1 ct		±2% of Reading ± 3ct
Auxiliary Electrode Influence Max Res. in Current Circuit Max Res. in Voltage Circuit	3kΩ 50kΩ	30kΩ 50kΩ		50kΩ 50kΩ
Response Time	Approximately four to eight seconds for a stabilized measureme		bilized measurement	
Withstanding Voltage	250Vac or 100Vpc			
Power Source	Eight C cell batteries (included); Alkaline recommended 120/230V 50/60Hz Recharg 9.6V, 3.5 Ah NiMH battery (included)		Ah NiMH battery pack	
Battery Life	>2000 15-second measurements; LO BAT indication on LCD			
Fuse Protection	0.1A, >250V, 0.25 x 1.25"; 30kA Interrupt Capacity			

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.43	Ground Resistance Tester Model 4620 (Digital, 4-Point, Battery Powered)	\$1,095.00	\$ 94.00
2130.44	Ground Resistance Tester Model 4630 (Digital, 4-Point, Rechargeable Battery)	\$1,695.00	\$ 94.00
2135.19	Ground Resistance Tester Model 4620 Kit – 150 ft (Model 4620 and Catalog #2135.35)	\$1,499.00	\$ 105.00
2135.20	Ground Resistance Tester Model 4620 Kit – 300 ft (Model 4620 and Catalog #2135.36)	\$1,599.00	\$ 105.00
2135.21	Ground Resistance Tester Model 4620 Kit – 500 ft (Model 4620 and Catalog #2135.37)	\$1,699.00	\$ 105.00
2135.22	Ground Resistance Tester Model 4630 Kit – 150 ft (Model 4630 and Catalog #2135.35)	\$1,999.00	\$ 105.00
2135.23	Ground Resistance Tester Model 4630 Kit – 300 ft (Model 4630 and Catalog #2135.36)	\$2,099.00	\$ 105.00
2135.24	Ground Resistance Tester Model 4630 Kit – 500 ft (Model 4630 and Catalog #2135.37)	\$2,199.00	\$ 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)	\$ 249.00	-
2130.59	Calibration checker – 25Ω for Models 3620, 3640, 4500, 4610, 4620 and 4630	\$ 54.95	-

Ground Resistance Tester Models 3620 & 3640



All individual units include soft carrying case, batteries and user manual.

SPECIFICATIONS	5					
MODELS	3620	3640				
Types of Measurements	2- and	3-Point	3-Point			
Display	Analog		Digital			
Soil Resistivity Test	N	lo				
Measurement Ranges	0.5 to 1000Ω	20Ω: 0.00 to 19.99Ω	200Ω: 20.0 to 199Ω	2000Ω: 200 to 1999Ω		
Resolution	10m Ω	10mΩ 100mΩ 1Ω				
Test Current	10mA	10mA 1mA 0.1mA				
Open Voltage	≤24V peak	≤42V peak				
Operating Frequency	128Hz sqi	lare wave				
Accuracy	±5% of Reading + 0.1% scale length	±2% of Reading ± 1ct				
Interference	All models reject high leve (DC, 50 to 60h					
Power Source	Eight 1.5V AA ba	tteries (inclu	tteries (included)			
Battery Life	Approx. 1680 15-second measurements		Approx. 1800 15-second measurements			
Low Battery Indication	Ye	 9\$				
Fuse Protection	High breaking cap	acity, 0.1A, >250V				

Features

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



See page 31 for Ground Testing Kit descriptions.

Catalog #2135.35



Catalog #2135.36

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2114.90	Ground Resistance Tester Model 3620 (Analog, 3-Point)	\$ 795.00	\$ 94.00
2114.92	Ground Resistance Tester Model 3640 (Digital, 3-Point)	\$ 795.00	\$ 94.00
2135.10	Ground Resistance Tester Model 3620 Kit – 150 ft (Model 3620 and Catalog #2135.35)	\$1,199.00	\$105.00
2135.11	Ground Resistance Tester Model 3620 Kit – 300 ft (Model 3620 and Catalog #2135.36)	\$1,299.00	\$105.00
2135.13	Ground Resistance Tester Model 3640 Kit – 150 ft (Model 3640 and Catalog #2135.35)	\$1,199.00	\$105.00
2135.14	Ground Resistance Tester Model 3640 Kit – 300 ft (Model 3640 and Catalog #2135.36)	\$1,299.00	\$105.00
2130.59	Calibration checker – 25Ω for Models 3620, 3640, 4620 and 4630	\$ 54.95	-

Clamp-On Ground Resistance Tester Models 3711 & 3731

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)
- Noise icon and buzzer alert user to presence of dangerous voltage and current levels
- Designed to EN 61010-1, 150V CAT III, 300V CAT II safety standards
- Patented design

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	1	✓					
Alarm Function	-	✓					
Memory (Logging)	-	✓					



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







Models 3711 & 3731 US Patent No. 362,639







SPECIFICATIONS								
MODELS	3711 & 3731							
ELECTRICAL								
Ground Resistance	Measurement Range	Resolution	Accuracy (% of Reading)					
	0.1 to 1.0Ω	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% ± 10Ω)					
	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 (included); Battery life: Eight hours or approximately 1000 measurements of 30 seconds							

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.60	Ground Resistance Tester Model 3711 (Clamp-On)	\$1,425.00	\$ 98.00
2117.61	Ground Resistance Tester Model 3731 (Clamp-On with memory and alarm)	\$1,625.00	\$ 98.00

AEMC Model Number	AEMC Catalog Number	RESISTANCE Range	POWER SOURCE	2 POINT TEST	3 POINT TEST	4 POINT/ SELECTIVE	SOIL RESISTIVITY TEST	EARTH COUPLING	2-CLAMP	BONDING	DISPLAY
6470-B	2135.01	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	_	✓	✓	_	✓	Digital
6470-B Kit 150FT	2135.02	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	_	√ ∗	✓	_	_	Digital
6470-B Kit 300FT	2135.03	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	_	✓	✓	_	✓	Digital
6470-B Kit 500FT	2135.04	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	_	✓	✓	_	✓	Digital
6471	2135.49	0.01 to 99.99kΩ	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital
6471 Kit 300FT	2135.50	0.01 to 99.99kΩ	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital
6472	2135.51	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital
6472 Kit 150FT	2135.52	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	✓	√ ∗	✓	✓	_	Digital
6472 Kit 300FT	2135.53	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital
6472 Kit 500FT	2135.54	0.01 to 99,000Ω	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital
4620	2130.43	0.0 to 1.999kΩ	Battery	✓	✓	_	✓	_	_	_	Digital
4620 Kit 150FT	2135.19	0.0 to 1.999kΩ	Battery	✓	✓	_	√ ∗	_	_	_	Digital
4620 Kit 300FT	2135.20	0.0 to 1.999kΩ	Battery	✓	✓	_	✓	_	_	_	Digital
4620 Kit 500FT	2135.21	0.0 to 1.999kΩ	Battery	✓	✓	_	✓	_	_	_	Digital
4630	2130.44	0.0 to 1.999kΩ	Rechargeable Battery	✓	✓	_	✓	_	_	_	Digital
4630 Kit 150FT	2135.22	0.0 to 1.999kΩ	Rechargeable Battery	✓	✓	_	√ ∗	_	_	_	Digital
4630 Kit 300FT	2135.23	0.0 to 1.999kΩ	Rechargeable Battery	✓	✓	_	✓	_	_	_	Digital
4630 Kit 500FT	2135.24	0.0 to 1.999kΩ	Rechargeable Battery	✓	✓	_	✓	_	_	_	Digital
3620	2114.90	0.50 to 1000Ω	Battery	✓	✓	_	_	_	_	_	Analog
3620 Kit 150FT	2135.10	0.50 to 1000Ω	Battery	✓	✓	_	_	_	_	_	Analog
3620 Kit 300FT	2135.11	0.50 to 1000Ω	Battery	✓	✓	_	_	_	_	_	Analog
3640	2114.92	0.0 to 1.999kΩ	Battery	✓	✓	_	_	_	_	_	Digital
3640 Kit 150FT	2135.13	0.0 to 1.999kΩ	Battery	✓	✓	_	_	_	_	_	Digital
3640 Kit 300FT	2135.14	0.0 to 1.999kΩ	Battery	✓	✓	_	_	_	_	_	Digital
3711	2117.60	0.0 to 1200Ω	Battery	Clamp-On Ground Resistance Tester				_	_	√ **	Digital
3731	2117.61	0.0 to 1200Ω	Battery	Clamp-On Ground Resistance Tester w/Alarm & Memory				_	_	√ **	Digital

^{*} 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.

Fault Mapper® **Cable Length Meter & Fault Locator Alphanumeric TDR**

Alpha-Numeric TDR

Open Circuit

Model CA7024

Finds opens, shorts and cable length

- Hand-held Cable Length Meter and Fault Locator for multiple conductor cables
- 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,





	TEST / V TOR / +=10 FAULT MAPPER* MODEL CA7024 EN AEMC*
TIO	NS
	CA7024
TS	
%	6000 ft or 2000m (selectable)
	0.1 ft up to 100 ft, then 1 ft (0.1m up to 100m, then 1m)
	±2% of Reading
	12 ft (4m)
	Built-in, user selectable and user programmable
	Adjustable from 0 to 99%
	1

5V (peak to peak) into open circuit; nanosecond rise Step Function

Automatic compensation

128 x 64 pixel graphical LCD Oscillating 810 to 1110Hz

Triggers at >10VAC/DC

Four 1.5V AA Alkaline batteries (included)

soft carrying case and user manual.		Auto-Off		After three minute	es
		Weight		12 oz (350g)	
CATALOG NO.	CATALOG NO. DESCRIPTION				
				PRICE	NIST CALIBRATION
2127.80	2127.80 Fault Mapper® Model CA7024 (Cable Length Meter & Fault Locator – Alphanumeric TDR)		hanumeric TDR)	\$495.00	-
Accessories (Optional)					
2127.76	Tone Receiver/Cable Tracer Model TR03			\$ 59.00	-

SPECIFICA

MEASUREMEN Range @ Vp = 70 Resolution Accuracy **Minimum Cable** Length **Cable Library**

MODEL

Velocity of Propagation (Vp) **Output Pulse**

Output Impedance

Display Resolution

Tone Generator Voltage Warning

Power Source



Fault Mapper Pro® Telephone/Coaxial/Parallel

Cable Tester Graphical TDR

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 for multiple conductor cables
- 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 35)

SPECIFICATIO	SPECIFICATIONS		
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	50 ft (15m)		
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 50Ω load; 25ns min to 2.15µs 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 (included)		
Auto-Off	After three minutes		
Weight	t 12 oz (350g)		



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

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

- 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 35)



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



SPECIFICATIONS MODEL CA7028 **MEASUREMENTS** Range 500 ft or 150m (selectable) **Accuracy** ±5% of Reading **Cable Type** UTP. STP. FTP and SSTP Short Circuit Pair, Open Circuit Wire, Short Between Pairs, Split/Cross Pairs, Pair Reversals, Shield Continuity **Faults Indicated Fault Location** Near end, remote end, or distance to fault Fault Display All fault and setting info displayed textually and graphically TIA 568A/B, USOC and ISDN **Wiring Schemes 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 (included) **Display Backlight** Blue electroluminescent **Remote Display** Green/Red Pass/Fail LED Auto-Off After three minutes

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	-

Weight



Simple Logger® II TRMS Clamp-On Current Model CL601



Features

- 0 to 600Arms
- True RMS measurements
- Self contained, no exposed connections
- Overload indication
- Isolated USB 2.0 communication 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
- EN 61010-1; 300V CAT IV, 600V CAT III

Applications

- · Machine load monitoring
- · HVAC troubleshooting
- · Load profiling
- · Electrical troubleshooting
- · Start-Stop time stamping

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 8 every second to 1 every 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 (included)	
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" (42mm) 2 conductor - Ø 1.00" (25.4mm) ea	
Weight (with battery)	17.1 oz (485g)	
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)	

*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.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.01	Simple Logger® II Model CL601 (1-Channel, TRMS Clamp-On, 600Aac)	\$484.00	\$72.00

SPECIFICATIONS

- Compatible standard current probes with voltage output and BNC connection (Models L101 & L102) - see chart on page 68 for compatible current probes
- Fused input (Model L111)
- Compatible with standard AC current probes with current output and banana plug connection (Model L111)
- 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 & report generation
- Isolated USB communication cable included
- EN 61010-1; 50V CAT III

Applications (Models L101 & L111)

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

Applications (Model L102)

- · Split phase load monitoring
- Neutral & ground current monitoring
- Intermittent problem detection
- Harmonic current monitoring using DataView® software
- Machine load monitoring
- · Start-Stop time stamping

Simple Logger® II **TRMS Current** Models L101, L102 & L111











Measurement Range 0 to 1Vac (probe dependent) 0 to 1Aac (probe dependent) Resolution 0.1mV 0.1mA Accuracy (50/60Hz) 0 to 10mV: unspecified 10 to 50mV: ±(0.5% of Reading + 1mV) 50 to 1000mV: ±(0.5% of Reading + 1mV) 50 to 1000mV: ±(0.5% of Reading + 0.5mV) ±(0.5% of Reading + 1mA) 50 to 1000mA: ±(0.5% of Reading + 0.5mA Input Impedance 800kΩ 800kΩ 1Ω Sample Rate 64 samples/cycle Storage Rate Programmable from 8 every second to 1 every 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 (included) 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) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g)				
Channels One Two One Two One Input Connection BNC One BNC connector per channel Two recessed banana jacks Measurement Range O to 1VAc (probe dependent) O to 1AAc (probe dependent Resolution O.1mV O.1mA O.1mA	SPECIFICATION	S		
Channels One Two One Input Connection BNC One BNC connector per channel Two recessed banana jacks Measurement Range 0 to 1Vxc (probe dependent) 0 to 1Axc (probe dependent) Resolution 0.1mV 0.1mA Accuracy (50/60Hz) 0 to 10mV: unspecified 10 to 50mV: ±(0.5% of Reading + 1mV) ±(0.5% of Reading + 1mV) ±(0.5% of Reading + 1mV) 50 to 1000mV: ±(0.5% of Reading + 0.5mV) ±(0.5% of Reading + 0.5mV) ±(0.5% of Reading + 0.5mV) Input Impedance 800kΩ 800kΩ 1Ω Sample Rate 64 samples/cycle Storage Rate Programmable from 8 every second to 1 every 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 (included) Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL 5.18 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32m	MODELS	L101	L102	L111
Input Connection BNC One BNC connector per channel Two recessed banana jacks	ELECTRICAL			
Measurement Range 0 to 1VAc (probe dependent) 0 to 1AAc (probe dependent) Resolution 0.1mV 0.1mA Accuracy (50/60Hz) 0 to 10mV: unspecified 10 to 50mV: 10 to 50mV: 10 to 50mV: 10 to 50mA: 10	Channels	One	Two	One
Resolution 0.1mV 0.1mA Accuracy (50/60Hz) 0 to 10mV: unspecified 10 to 50mV: $\pm (0.5\% \text{ of Reading} + 1 \text{mV})$ $\pm (0.5\% \text{ of Reading} + 1 \text{mV})$ $\pm (0.5\% \text{ of Reading} + 1 \text{mA})$ $\pm (0.5\% \text{ of Reading} + 0.5 \text{mV})$ Input Impedance $800 \text{k}\Omega$ $800 \text{k}\Omega$ 100measure Sample Rate 64 samples/cycle Storage Rate Programmable from 8 every second to 1 every day Storage Modes Start/Stop, FIFO and Extended Recording Mode (XRM TM) 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 (included) 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) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g)	Input Connection	BNC	One BNC connector per channel	Two recessed banana jacks
Accuracy (50/60Hz) 0 to 10mW: unspecified 10 to 50mW: ±(0.5% of Reading + 1mV) ±(0.5% of Reading + 1mV) 50 to 1000mW: ±(0.5% of Reading + 0.5mV) ±(0.5% of Reading + 1mA) 50 to 1000mA: ±(0.5% of Reading + 0.5mV) Input Impedance 800kΩ 800kΩ 1Ω Sample Rate 64 samples/cycle Storage Rate Programmable from 8 every second to 1 every 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 (included) Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL 5.18 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Measurement Range	0 to 1Vac (pro	be dependent)	0 to 1Aac (probe dependent)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Resolution	0.1	mV	0.1mA
Sample Rate64 samples/cycleStorage RateProgrammable from 8 every second to 1 every dayStorage ModesStart/Stop, FIFO and Extended Recording Mode (XRM™)Recording Length15 minutes to 8 weeks, programmable using DataView®Memory240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.CommunicationUSB 2.0 optically isolatedPower Source2 x 1.5V AA-cell Alkaline batteries (included)Battery Life100 hours to >45 days (dependent on sample rate and recording length)MECHANICALDimensions5.18 x 2.75 x 1.28" (136 x 70 x 32mm)Max Conductor SizeCurrent probe dependentWeight (with battery)6.4 oz (181g)6.64 oz (188g)CaseUL94-V0	Accuracy (50/60Hz)	10 to ±(0.5% of Re 50 to 1	10 to 50mV: ±(0.5% of Reading + 1mV) ± 50 to 1000mV:	
Storage Rate Programmable from 8 every second to 1 every 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 (included) Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL Dimensions 5.18 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Input Impedance	800kΩ	800kΩ	1Ω
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 (included) Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL Dimensions 5.18 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Sample Rate	64 samples/cycle		
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 (included) 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) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Storage Rate	Program	mable from 8 every second to 1 e	very day
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 (included) Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL Dimensions 5.18 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)		
and will be retained even if the battery is low or removed. Communication	Recording Length	15 minutes to 8 weeks, programmable using DataView®		
Power Source 2 x 1.5V AA-cell Alkaline batteries (included) Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL 5.18 x 2.75 x 1.28" (136 x 70 x 32mm) Dimensions 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) Case UL94-V0	Memory			
Battery Life 100 hours to >45 days (dependent on sample rate and recording length) MECHANICAL 5.38 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Communication		USB 2.0 optically isolated	
MECHANICAL Dimensions 5.38 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Power Source	2 x 1	.5V AA-cell Alkaline batteries (inclu	uded)
Dimensions 5.38 x 2.75 x 1.28" (136 x 70 x 32mm) 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) Max Conductor Size Current probe dependent Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Battery Life	100 hours to >45 c	lays (dependent on sample rate an	nd recording length)
S.38 x 2.75 x 1.28" (136 x 70 x 32mm) (132 x 70 x 32mm)	MECHANICAL			
Weight (with battery) 6.4 oz (181g) 6.64 oz (188g) Case UL94-V0	Dimensions			
Case UL94-V0	Max Conductor Size	Current probe dependent		
020.10	Weight (with battery)	6.4 oz (181g) 6.64 oz (188g)		
Vibration IFC 68-2-6 (1.5mm, 10 to 55Hz)	Case	UL94-V0		
1.5 00 E 0 (1.611111, 10 to 00112)	Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)		
Shock IEC 68-2-27 (30G)	Shock		IEC 68-2-27 (30G)	
Drop IEC 68-2-32 (1m)	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)	\$349.00	\$72.00
2126.03	Simple Logger® II Model L102 (2-Channel, TRMS 0 to 1VAC)	\$389.00	\$72.00
2126.04	Simple Logger® II Model L111 (1-Channel, TRMS 0 to 1AAc)	\$349.00	\$72.00



Simple Logger® II TRMS 600Vac/DC Model L261 ±850Vpc Model L481



SPECIFICATIO	SPECIFICATIONS			
MODELS	L261	L481		
ELECTRICAL				
Channels	Or	ne		
Input Connection	Two recessed 4mm	safety banana jacks		
Measurement Range	0 to 600Vac/dc	-850 to ±850Vpc		
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)	0 to 5V: unspecified 5 to 50V: \pm (0.5% of Reading + 1V) 50 to 850V: \pm (0.5% of Reading + 0.5V)		
Input Impedance	401	Ω		
Sample Rate	64 samples/cycle	Maximum of 8 per second		
Storage Rate	Programmable from 8 eve	ery second to 1 every day		
Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)			
Recording Length	15 minutes to 8 weeks, prog	grammable using DataView®		
Memory	240,000 measurements (512KB) - The memory and will be retained ever	recorded data is stored in non-volatile n if the battery is low or removed.		
Communication	USB 2.0 option	cally isolated		
Power Source	2 x 1.5V AA-cell Alkali	ne batteries (included)		
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 (181g)			
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 (Model L261)
- Bipolar voltage recording up to ±850Vpc (Model L481)
- 64 samples per cycle (Model L261)
- 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 cable included
- EN 61010-1; 300V CAT IV; 600V CAT III

Applications (Model L261)

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

Applications (Model L481)

- · Rail voltage monitoring
- Long term supply monitoring
- · Find intermittent voltage problems
- · Machine monitoring
- · Windmill monitoring



Models L261 & L481 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/dc)	\$359.00	\$72.00
2126.25	Simple Logger® II Model L481 (1-Channel, ±850Vpc)	\$359.00	\$72.00



Simple Logger® II 4 to 20mApc Current Model L322 **DC Voltage Model L432**

Features

- · 2 independent input channels
- -20 to +20mApc (Model L322)
- User-selectable ranges of ± 100mV; ± 1V and ± 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
- Isolated USB communication cable included
- EN 61010-1; 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
- And many more

SPECIFICATIONS				
MODELS	L322	L432		
ELECTRICAL				
Channels	Tv	VO		
Input Connection	One 4-position removable	screw-type terminal block		
Measurement Range	-20 to +20mApc	±100mV/1V/10Vpc (selectable through DataView® software)		
Resolution	0.01mA	0.1mV - 1mV - 10mV		
Accuracy (DC and 50/60Hz)				
Range 1	(0.25% of Reading +0.05mA)	±(0.5% of Reading +1mV)		
Range 2	– ′	\pm (0.5% of Reading +1mV)		
Range 3	-	$\pm (0.5\% \text{ of Reading } +10\text{mV})$		
Input Impedance	50Ω	100V/1V: 80kΩ 10V: 800kΩ		



MODELS	L322	L432			
ELECTRICAL					
Sample Rate	8 samples taken at storage interval				
Storage Rate	Programmable from 8 eve	ery second to 1 every day			
Storage Modes	Start/Stop, FIFO and Extende	ed Recording Mode (XRM™)			
Recording Length	15 minutes to 8 weeks, prog	rammable using DataView®			
Memory	240,000 measur The recorded data is stored in n retained even if the bat	on-volatile memory and will be			
Communication	USB 2.0 option	cally isolated			
Power Source	2 x 1.5V AA-cell Alkalii	ne batteries (included)			
Battery Life	100 hours t (dependent on sample ra				
MECHANICAL					
Dimensions	5.45 x 2.75 x 1.28"	(136 x 70 x 32mm)			
Weight (with battery)	6.4 oz	(181g)			
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 (2-Channel, 4 to 20mApc Current Module)	\$349.00	\$72.00
2126.07	Simple Logger® II Model L432 (2-Channel, DC ±100mV/1V/10VDC)	\$349.00	\$72.00



Simple Logger® II **4-Channel Event Model L404**





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SPECIFICATIONS	
MODEL	L404
ELECTRICAL	
Channels	Four
Input Connection	One 8-position removable screw-type terminal block
Voltage Range	0 to 5Vpc or contact closure
Input Impedance	<150kΩ
Sample Rate	Maximum of 8 per second
Storage Rate	Event triggered (maximum once every two sample periods)
Storage Mode	Event recording
Recording Length	15 minutes to 8 weeks, programmable using DataView®
Memory	50,000 events (512KB) The recorded data is stored in non-volatile memory & 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 storage rate/recording length)
MECHANICAL	_
Dimensions (without removable connector)	5.06 x 2.75 x 1.28" (129 x 70 x 32mm)
Weight (with battery)	6.4 oz (18g)
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

- · Four input channels
- Works with dry contact closure or 0-3 and 0-5VDC logic levels
- Stores up to 50,000 events 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 for data storage, real-time measurement display, analysis and report generation
- Isolated USB communication cable and batteries included
- EN 61010-1; 50V CAT III

Applications

- Determine machinery run/down times
- Determine event sequencing
- Count events and record
- Record event duration
- Accumulate rainfall data

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.29	Simple Logger® II Model L404 (4-Channel, Event)	\$399.00	N/A

- · 2 input channels
- Voltage: 0 to 600Vac TRMS
- Current: compatible with voltage output AC current probes with voltage outputs (shown on page 68)
- 64 samples per cycle
- · Records Arms, Vrms & VA (VA displays in DataView® software)
- · 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
- EN 61010-1; 300V CAT IV; 600V CAT III with a safety rated current probe attached
- Isolated USB communication cable included

Applications

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



Model L562 includes set of two color-coded 5 ft voltage leads and color-coded alligator clips (red/black) Cat. #2140.62

Simple Logger[®] II **TRMS Voltage & Current Model L562**









SPECIFICATIONS					
MODEL	L56:	2			
ELECTRICAL	2002				
Channels	Two				
Connection	Current Channel	Voltage Channel			
Input Connection	BNC	Two recessed banana jacks			
Input Range*	0 to 1Vac (for use with current probes with a voltage output)	0 to 600Vac			
Resolution	0.1mV	0.1V			
Accuracy (50/60Hz)	0 to 10mV unspecified 10 to 50mV: ±(0.5% of Reading + 1mV) 50 to 1000mV: ±(0.5% of Reading + 0.5mV)	0 to 5V unspecified 5 to 50V: ±(0.5% of Reading + 1V) 50 to 600V: ±(0.5% of Reading + 0.5V)			
Input Impedance	800kΩ	40ΜΩ			
Maximum Input Voltage***	5Vrms or ± 7.07V peak	1.2 x 600V			
Sample Rate	64 sample	s/cycle			
Storage Rate	Programmable from 8 ever	y second to 1 every day			
Storage Modes	Stop when full, FIFO and Extend	led Recording Mode (XRM™)			
Recording Length	15 minutes to 8 weeks, progr	ammable using DataView®			
Memory	240,000 measurement (512KB). non-volatile memory and will be is low or re	e retained even if the battery			
Communication	USB 2.0 optica	ally isolated			
Power Source**	2 x 1.5V AA-cell Alkaline	e batteries (included)			
Battery Life	100 hours to (dependent on sample rate	> 45 days e 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 (1	81g)			
Case	UL94-	VO			
Vibration	IEC 68-2-6 (1.5m)	m, 10 to 55Hz)			
Shock	IEC 68-2-2	7 (30G)			
Drop	IEC 68-2-3	32 (1m)			

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.35	Simple Logger® II Model L562 (TRMS Voltage & Current Module)	\$389.00	\$72.00



^{*}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.

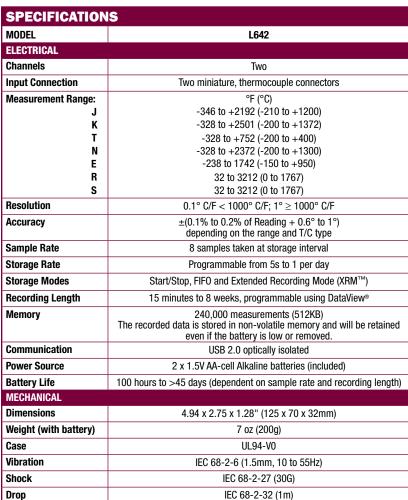
^{**}A memory backup provides backup power while the batteries are being changed.

^{***}Input level beyond this range may damage the instrument.

Simple Logger® II Thermocouple Model L642







Features

- · 2 input channels
- User-selectable thermocouple types
 J, K, T, N, E, R, and S (not included)
- 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
- Isolated USB communication cable included
- EN 61010-1; 50V CAT III

Applications

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

Optional Thermocouple Sensors

Please consult AEMC® for recommendations on thermocouples. **Thermocouple sensors are not included.**



Thermocouple-flexible K type (1.2mm)
Cat. #2126.47



CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.08	Simple Logger® II Model L642 (Temperature Thermocouple Module)	\$389.00	\$72.00

- Monitors and records temperature and humidity
- 14° to 122°F (-10° to 50°); 5 to 85% RH
- Field replaceable sensor, no calibration required
- Includes built in Temp/RH sensor
- Programmable storage rates from once 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 for a period of 45 days or more
- 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
- Isolated USB communication cable included
- EN 61010-1; 50V CAT III

Applications

- Clean rooms
- Blood banks
- Humidors
- Wine cellars
- Greenhouses
- Paper mills
- General Office

Simple Logger® II **Temperature/RH Model L702**



SPECIFICATIONS					
MODEL	L7	02			
ELECTRICAL					
Channels	Ти	/0			
Input	Temperature Sensor	Humidity Sensor			
Range	14° to 122°F (-10° to 50°C)	5 to 85% RH			
Accuracy	±(1% of Reading + 1°F/C)	\pm (3% of Reading + 2cts)			
Resolution	0.1°F/C	0.1% RH			
Sample Rate	Minimum of 1 e	very 5 seconds			
Storage Rate	Programmable from one	ce every 5s to 1 per 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) Recorded data is stored in non-volatile memory and retained even if battery is low or removed.				
Communication	USB 2.0 optically isolated				
Power Source	2 x 1.5V AA-cell Alkaline batteries (included)				
Battery Life	100 hours to >45 days (dependen	t on storage rate/recording length)			
MECHANICAL					
Dimensions	4.94 x 2.75 x 1.28" (136)	(70 x 32mm) w/o Sensor			
Weight (with battery)	6.4 oz (180g)				
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
2126.09	Simple Logger® II Model L702 (2-Channel, Temp/RH Module)	\$399.00	N/A

Simple Logger[®] II Dual Channel MiniFlex[®] Model ML912









SPECIFICATIONS MODEL ML912 **ELECTRICAL** Channels Two Input Captive MiniFlex® AC Current Flexible Sensors Range 0.5 to 100Aac 5 to 1000Aac 0 to 1A unspecified **Accuracy** 0 to 5A unspecified 1 to 100A: 5 to 1000A: (50/60Hz) $\pm (1\% \text{ of Reading} + 0.5A)$ \pm (1% of Reading + 1A) Resolution 0.1A Sample Rate 64 samples/cycle Storage Rate Programmable from 8 every second to 1 every day Start/Stop, FIFO and Extended Recording Mode (XRM™) Storage Modes 15 minutes to 8 weeks, programmable using DataView® **Recording Length** 240,000 measurement (512KB) Memory The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.

Features

- Includes two integral MiniFlex® flexible current probes that will measure from 0.5A to 1000A TRMS with 0.1A resolution
- Dual range 100/1000A user selectable per channel
- 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 for a period of 45 days or more
- 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 & report generation
- Isolated USB communication cable included
- EN 61010-1; 600V CAT IV, 1000V CAT III

Applications

- Single and Split phase load monitoring
- Neutral and ground current monitoring
- Intermittent problem detection
- Harmonic current monitoring using DataView® software
- Machine load monitoring
- Fault current detection
- Load profiling

MODEL	ML912
ELECTRICAL	
Communication	USB 2.0 optically isolated
Power Source	2 x 1.5V AA-cell Alkaline batteries (included)
Battery Life	100 hrs to >45 days (dependent on storage rate/recording length)
MECHANICAL	
Dimensions	4.95 x 2.75 x 1.28" (136 x 70 x 32mm) w/o Sensor
Max Conductor Size	Sensor: 6" (152mm)/Cable: 6 ft (2m)
Weight (with battery)	8.67 oz (245g) with battery
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
2126.37	Simple Logger® II Model ML912 (2-Channel, TRMS, MiniFlex®, 100/1000Aac)	\$699.00	\$72.00



DataView[®]

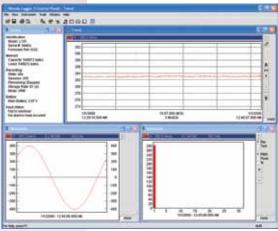
Data Analysis and Reporting Software for Data Loggers

Configure all data logger functions of the Simple Logger® II Models

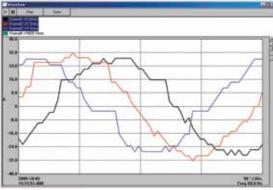
- · Display and analyze real-time data on your PC
- · Configure all data logger functions and parameters from your PC including sample rate, recording length, channel configuration and more
- · Create and store a complete library of configurations that can be uploaded to the logger as needed
- Zoom in 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 are available on our website www.aemc.com







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



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



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



Configure all alarm functions with straightforward selections.



AEMC Model Number	AEMC CATALOG NUMBER	PROBE OUTPUT	PROBE RANGE	MAX RANGE FOR SLII	CABLE DIAMETER	BUS BAR Size	OUTPUT CONNECTION	USED WITH LOGGER MODEL	NOTES
SL261	1201.51	100mV/Aac/dc 10mV/Aac/dc	100mA to 10Aac/dc 1 to 100Aac/dc	10 A ac 100 A ac	0.46"	N/A	Lead w/BNC	L101 L102 L562	AC ONLY
MN261	2115.82	100mV/Aac 10mV/Aac	0.1 to 24Aac 0.5 to 240Aac	10 A ac 100 A ac	0.78"	N/A	Lead w/BNC	L101 L102 L562	_
MR461	1200.72	10mV/Aac/dc 1mV/Aac/dc	0.2 to 40Aac 0.5 to 400Aac 0.4 to 60Adc 0.5 to 600Adc	40 A ac 400 A ac	1.16"	1.2 X 0.4"	Lead w/BNC	L101 L102 L562	AC ONLY
MR561	1200.73	10mV/Aac/dc 1mV/Aac/dc	0.2 to 100Aac 0.5 to 1000Aac 0.4 to 150Adc 0.5 to 1500Adc	100 A ac 1000 A ac	1.5"	1.96 X 0.49"	Lead w/BNC	L101 L102 L562	AC ONLY
SR661	2113.49	100mV/Aac 10mV/Aac 1mV/Aac	0.1 to 12Aac 0.1 to 120Aac 1 to 1200Aac	10Aac 100Aac 1000Aac	2.05"	1.96 X 0.19"	Lead w/BNC	L101 L102 L562	_
JM861	2110.90	10mV/Aac 1mV/Aac 0.1mV/Aac	1 to 30Aac 1 to 300Aac 1 to 3000Aac	30Aac 300Aac 3000Aac	2.52"	1.97 X 5.31"	Lead w/BNC	L101 L102 L562	_
MF 300-6-2-10	2126.81	100mV/Aac 10mV/Aac	30 A ac 300 A ac	10 A ac 100 A ac	1.77"	2.25 X 3/4"	Sensor w/BNC	L101 L102 L562	_
300-24-2-1	2112.88	100mV/Aac 10mV/Aac	5 to 30A 5 to 300A	10A 100A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
1000-24-1-1	2112.39	1mV/Aac	5 to 1000A	1000A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
1000-24-2-1	2112.98	10mVac 1mV/Aac	5 to 100A 5 to 1000A	100A 1000A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
1000-36-2-1	2113.00	10mVac 1mV/Aac	5 to 100A 5 to 1000A	100A 1000A	11"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
3000-24-1-1	2112.46	1mV/Aac	5 to 3000A	1000A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
3000-36-1-1	2112.48	1mV/Aac	5 to 3000A	1000A	11"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
3000-24-2-1	2113.05	10mVac 1mV/Aac	5 to 300A 5 to 3000A	100A 1000A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
3000-36-2-1	2112.00	10mVac 1mV/Aac	5 to 300A 5 to 3000A	100A 1000A	11"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
3000-48-2-1	2112.01	10mV/Aac 1mV/Aac	5 to 300A 5 to 3000A	100A 1000A	15"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
6000-24-2-0.1	2113.19	1mV/Aac 0.1mV/Aac	5 to 600A 5 to 6000A	600A 6000A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
6000-36-2-0.1	2113.21	1mV/Aac 0.1mV/Aac	5 to 600A 5 to 6000A	600A 6000A	11"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46

AEMC Model Number	AEMC CATALOG NUMBER	PROBE OUTPUT	PROBE RANGE	MAX RANGE FOR SLII	CABLE DIAMETER	BUS BAR Size	OUTPUT CONNECTION	USED WITH LOGGER MODEL	NOTES
30000-24-2-0.1	2113.33	1mV/Aac 0.1mV/Aac	5 to 3000A 5 to 30,000A	1000A 10000A	8"	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
MN03	2129.18	1mV/Aac	2 to 100Aac	100 A ac	0.47"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN114	2110.71	100mV/Aac	1mA to 10A	10 A ac	0.47"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN251	2115.77	1mV/Aac	0.5 to 240A	240 A ac	0.78"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN255	2115.81	100mV/Aac 10mV/Aac	0.1 to 24Aac 0.1 to 240Aac	10 A ac 100 A ac	0.78"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN353	2116.27	10mV/Aac	0.1 to 150A	100 A ac	0.78"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN373	2116.28	1000mV/Aac 10mV/Aac	0.01 to 2.4Aac 0.1 to 200Aac	1AAC 100Aac	0.78"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN375	2115.41	100mV/Aac	0.1 to 10A	10 A ac	0.78"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
SR752	2116.32	1mV/Aac	0.1 to 1000A	1000 A ac	2.05"	1.96 X 0.19"	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
SR759	2116.33	1000mV/Aac 100mV/Aac 10mV/Aac 1mV/Aac	1mA to 1Aac 10mA to 10Aac 0.1 to 100Aac 1 to 1000Aac	1Aac 10Aac 100Aac 1000Aac	2.05"	1.96 X 0.19"	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
24-3001	2120.81	10mV/Aac 1mV/A	5 to 300Arms 50 to 3000Arms	100Aac 1000Aac	8"	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MR411	1200.68	10mV/Aac 1mV/Aac	0.2 to 40A 0.5 to 400A	40Aac 400Aac	1.16"	1.2 X 0.4"	Lead w/Banana Plug	L101 L102 L562	AC ONLY Must use adapter # 2118.46
MR521	1200.69	10mV/Aac 1mV/Aac	0.2 to 100A 0.5 to 1000A	100Aac 1000Aac	1.5"	1.96 X 0.49"	Lead w/Banana Plug	L101 L102 L562	AC ONLY Must use adapter # 2118.46



Lightmeter Models CA811 & CA813









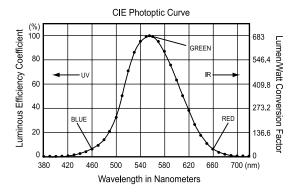
SPECIFICATIONS				
MODELS	CA811	CA813*		
Range	20fc, 200fc, 2000fc, 20kfc	20fc, 200fc, 2000fc, 20kfc		
	20lux, 200lux, 2000lux, 20k lux	20lux, 200lux, 2000lux, 20k lux, 200k lux		
Display Resolution	0.01fc o	r 0.01lux		
Sensor	Silicon ph	notodiode		
Spectral Response	CIE Photo	ptic Curve		
Accuracy 2856K 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				
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	One 9V Alkaline battery (included)			
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. 7.55 oz (214g) including battery	Approx. 7.9 oz (224g) including battery		

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



*Note: Model CA813 offers higher sensitivity (200klux) and has a better spectral response to common light sources. Model CA811 is used to measure incandescent lighting.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.20	Lightmeter Model CA811	\$119.00	\$450.00
2121.21	Lightmeter Model CA813	\$179.00	\$450.00



- · 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 (ref. 94dB@1kHz)
- · 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

Applications

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



Sound Level Meter Model CA832



SPECIFICATION	IS
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 (ref. 94dB@1kHz)
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	One 9V Alkaline battery (included)
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: ±2°F or -20° to 0°C: ±1°C 32° to 140°F: ±1°F or 0° to 60°C: ±0.5°C		
MEASUREMENTS —	RELATIVE HUMIDITY		
Measurement Range	0 to 100% RH		
Display Resolution	0.1% RH		
Sensor	Capacitive Humidity Sensor		
Accuracy	±5.0%, 25°C, 10% to 90% RH ±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	One 9V Alkaline battery (included)		
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)	\$159.00	\$350.00

Thermometer Model CA863 MODEL MODEL



SPECIFICATIONS			
MODEL	CA863		
MEASUREMENTS			
Input	Dual K thermocouple		
Temperature Scale	Fahrenheit or Celsius user-selectable		
Measurement Range	-58° to 1999°F or -50° to 1300°C		
Display Resolution	1°F or 1°C, 0.1°F or 0.1°C		
Sensor	K thermocouple Dual Input (included)		
Accuracy (Instrument)	-58° to 1999°F: ±0.3% of Rdg ± 2°F -50° to 1000°C: ±0.3% of Rdg ± 1°C 1000° to 1300°C: ±0.5% of Rdg ± 1°C		
Input Protection	24Vpc or 24Vrms		
Sample Rate	2.5 times per second		
Input Connector	Accepts two standard miniature K thermocouple plugs		
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	One 9V Alkaline battery (included)		
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. 6.4 oz (181g) including battery		

Features

- · Easy one-hand operation
- Dual K thermocouple included
- 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

Applications

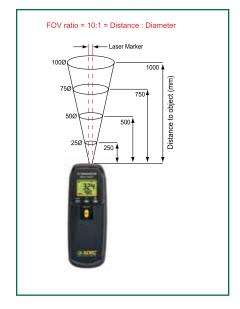
- Process control monitoring and troubleshooting
- HVAC installation and maintenance
- Chemical processing
- Food processing
- Mold injecting and HVAC for temperature rise and fall
- Indoor/outdoor differential temperature measurements
- Plastics

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.27	Thermometer Model CA863 (Dual K thermocouple)	\$99.00	\$78.00

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

Applications

- 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



Infrared Thermometer Model CA876





SPECIFICATIONS			
MODEL	CA876		
MEASUREMENTS —	INFRARED		
Temperature Range	-4° to 1022°F or -20° to 550°C		
Display Resolution	1°F or 1°C		
Accuracy	$\pm 2\%$ of Reading or ± 6 °F (3°C)		
Response Time	One second		
Emissivity	Adjustable 0.10 to 1.00		
Sensor	Thermopile		
Optical Lens	Fresnal Lens		
Laser	<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 (included)		
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 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	One 9V Alkaline battery (included)		
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. 9 oz (255g) including battery		

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.34	Infrared Thermometer Model CA876 (Laser, Var & K Thermocouple)	\$179.00	-

Infrared Thermometer Model CA879



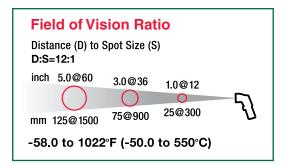
SPECIFICATIONS	
MODEL	CA879
ELECTRICAL	
Measuring Range	-58° to 1022°F (-50° to 550°C)
Resolution	0.1°F from -58° to 200°F, 1°F beyond this range 0.1°C from -50° to 200°C, 1°C beyond this range
Polarity	Automatic (minus only)
Accuracy	±1.5% of Reading ±4°F from -4° to +1022°F / ±9°F of -58° to -4°F ±1.5% of Reading ±2°C from -20° to +550°C / ±5°C of -50° to -20°C
Emissivity	Preset at 0.95
Spectral Response	6 to 14µm
Response Time	400ms
Laser Target	1mW (670nm type)
Power Source	One 9V Alkaline battery included (6LR61 or 6LF22)
MECHANICAL	
Dimensions	9.05 x 3.93 x 2.20" (230 x 100 x 56mm)
Weight	290g
ENVIRONMENTAL	
Operating: Temperature Humidity	32° to 122°F (0° to 50°C) 10 to 90% RH
Storage: Temperature Humidity	-4° to 140°F (-20° to 60°C) without battery < 80% RH
SAFETY	
Electromagnetic Compatibility	EN 50081-1 Ed. 1992: EN 55022 EN 50082-1 Ed. 1997: EN 55024

Features

- · Easy one-hand operation
- Non-contact infrared sensor
- Laser guide for precise aim
- 12:1 Field of Vision Ratio
- Measures temperature in °F and °C
- Fixed 0.95 emissivity
- Auto-HOLD function
- 2000-count backlit LCD

Applications

- · 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





Model CA879 includes soft carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.37	Infrared Thermometer Model CA879 (-58° to 1022°F)	\$199.00	-



- · 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 (Model 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, 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	FOO TOMO	503
	to Donaina)		502 TRMS	
AC Current (Auto-Ranging)		0.05 to 400A	0.05 to 400Arms	0.05 to 400A
Resolution	501 0011	0.1A	0.01A and 0.1A	0.01A and 0.1A
Accuracy	50 to 60Hz 60 to 500Hz	±2% of Reading ± 5cts ±2.8% of Reading ± 5cts	$\pm 1.9\%$ of Reading \pm 5cts $\pm 2.5\%$ of Reading \pm 5cts	±1.5% of Reading ± 10cts ±2.5% of Reading ± 10cts
AC Voltage (Au	to-Ranging)	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
Accuracy	50 to 60Hz 60 to 500Hz	±1.0% of Reading ± 5cts ±1.5% of Reading ± 5cts	$\pm 1.5\%$ of Reading \pm 5cts $\pm 1.5\%$ of Reading \pm 5cts	±0.8% of Reading ± 5cts ±1.5% of Reading ± 5cts
Input Impedar	ice	1M Ω	1M Ω	10MΩ
DC Current (Au	to-Ranging)	-	_	0.10 to 400A
Resolution		-	_	0.01A and 0.1A
Accuracy		_	_	±2.5% of Reading ± 10cts
DC Voltage (Au	to-Ranging)	-	0.2 to 600V	0.2 to 600V
Resolution		_	0.1V and 1V	0.1V and 1V
Accuracy		_	$\pm 1\%$ of Reading \pm 2cts	$\pm 1\%$ of Reading \pm 2cts
Input Impedar	ice	-	1MΩ	10MΩ
Resistance		0.3 to 400Ω	0.2 to 400Ω	0.2 to 400Ω
Accuracy		±1.9% of Reading ± 3cts	$\pm 1\%$ of Reading \pm 2cts	±1% of Reading ± 2cts
Max Test Voltage		-1.6 V DC	1.5 V bc	1.5 V DC
Continuity		<35Ω	<40Ω	<40Ω
Max Test Voltage		1.5Vpc	1.5 V bc	1.5Vpc
Frequency (Aut				
CURRENT INP	UT			
Range	20Hz to 4kHz	_	1Hz Resolution	_
	kHz to 10kHz	_	10Hz Resolution	_
Accuracy		-	$\pm 0.1\%$ of Reading \pm 1ct	_
Min Input Sigr	nal	_	2Arms	_
Input Impedar		_	1ΜΩ	_
Overload Prote	ection	_	600Arms	_
VOLTAGE INPU	IT			
Range	10Hz to 4kHz	_	1Hz Resolution	_
	1kHz to 40kHz	_	10Hz Resolution	_
	Hz to 400kHz	_	100Hz Resolution	_
Accuracy		_	±0.1% of Reading ± 1ct	-
Min Input Sigr	nal 4kHz	_	5Vrms	_
input oigi	40kHz	_	5Vrms	_
	400kHz	_	5Vrms	_
Input Impedar	ice	_	1ΜΩ	_
Overload Prote		_	600Vrms	_
Power Source			wo 1.5V AAA batteries (include	n.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.54	Clamp-On Meter Model 500 (AC, 400Aac, 600Vac, Ohms, Continuity)	\$ 69.00	\$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	\$68.00

Clamp-On Meter Models 511, 512 & 514











Features

- Standard size, full function clamp-on meters
- 1000Aac or 1000Aac/dc current measurements
- 750Vac or 1000Vpc volt measurements
- TRMS measurements (Models 512 & 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	IUNS			
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	$\pm 1.9\%$ of Reading \pm 5cts $\pm 2.5\%$ of Reading \pm 5cts
AC Voltage (Auto-Ra	anging)	0.5 to 750V	0.5 to 750Vrms	0.5 to 750Vrms
Resolution	<u> </u>	0.1V and 1V	0.1V and 1V	0.1V and 1Vrms
Accuracy 60	to 500Hz	±1.2% of Reading ± 5cts	±1.2% of Reading ± 5cts	±1.2% of Reading ± 5cts
Input Impedance		10MΩ	10MΩ	10ΜΩ
DC Current (Auto-R	anging)	_	_	1A to 1000A
Resolution		_	_	0.01A, 0.1A and 1A
Accuracy		_	_	$\pm 2.5\%$ of Reading $\pm 10ct$
DC Voltage (Auto-R	anging)	0.2 to 1000V	0.2 to 1000V	0.2 to 1000V
Resolution	0 0,	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		10ΜΩ	10ΜΩ	10ΜΩ
Resistance		0.2 to 4000Ω	0.2 to 4000Ω	0.2 to 4000Ω
Accuracy		±1% of Reading ± 2cts	±1% of Reading ± 2cts	±1% of Reading ± 2cts
Max Test Voltage		3VDC	3VDC	3VDC
Diode Test		0.6mA	0.6mA	0.6mA
Open Circuit Voltad	ge	3 V DC	3VDC	3VDC
Continuity		<40Ω	<40Ω	<40Ω
Max Test Voltage		3V DC	3V DC	3VDC
Frequency (Auto-Ra	anging)			
CURRENT INPUT	.			
Range	4kHz 10kHz	1Hz Resolution	1Hz Resolution	1Hz Resolution 10Hz Resolution
Accuracy 20Hz	to 10kHz	±0.1% of Reading ± 1ct	±0.1% of Reading ± 1ct	±0.1% of Reading ± 1ct
Min Input Signal	4kHz	2Arms	2Arms	2Arms
, J	10kHz	ZAIIII5 —	ZAIII5 —	5Arms
Voltage input				
Range	4kHz 10kHz	1Hz Resolution 10Hz Resolution	1Hz Resolution 10Hz Resolution	1Hz Resolution 10Hz Resolution
Accuracy 10	to 10kHz	$\pm 0.1\%$ of Reading \pm 1ct	$\pm 0.1\%$ of Reading \pm 1ct	$\pm 0.1\%$ of Reading \pm 1cf
Min Input Signal	4kHz	5Vrms	5Vrms	5Vrms
	10kHz 5Vrms 5Vrms		5Vrms	10Vrms
Power Source		(OV Alkaline battery (included)
ENVIRONMENTA	L			
Operating Temperature		32° to 104°F (0° to 40°C) < 80% RH, non-condensing	32° to 104°F (0° to 40°C) < 80% RH, non-condensing	*-14° to 122°F (-25° to 50°(80% RH, non-condensing



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

*Note: If the meter is to be used below 32°F (0°C), we suggest that the battery be replaced to ensure proper results.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.67	Clamp-On Meter Model 511 (AC, 1000Aac, 750Vac/1000Vpc, Ohms, Continuity, Hz)	\$149.00	\$94.00
2117.68	Clamp-On Meter Model 512 (TRMS, 1000Aac, 750Vac/1000Vpc, Ohms, Continuity, Hz)	\$165.00	\$94.00
2117.70	Clamp-On Meter Model 514 (AC/DC, TRMS, 1000Aac/DC, 750Vac/1000VDC, Ohms, Continuity, Hz)	\$199.00	\$94.00

- · Dual display
- · Standard size, full function clamp-on meter
- 1000AAC/DC current measurements (DC Current on Model 675 only)
- 1400Vpc volt measurements
- TRMS measurements
- Resistance measurement to $10,000\Omega$
- Continuity with beeper below 35Ω
- · Frequency measurements from V and A inputs
- 1ms Peak function for fast capture of signals
- · Hold function to "freeze" readings
- · Designed to measure Amps and Volts at the same time
- Push-button for easy ADC zeroing
- · Large easy-to-read 9999-count backlit LCD display
- · Includes test leads and soft carrying case



Model 670 Jaw Opening: 1.65" (42mm) Conductor Size: one 750kcmil cable or two 350kcmil cables

Model 675 Jaw Opening: 1.58" (40mm) Conductor Size: one 500kcmil cable

*Note: If the meter is to be used below 32°F (0°C), we suggest that the battery be replaced to ensure proper results.



Clamp-On Meter Models 670 & 675

Dual display simultaneously measures and displays voltage and current!







ONS					
	RMS	675 TRMS			
070 1	TIMO		070 11		
0 00 to 00 00A	100 to 1000A	0.00 to 00.0	ΛΩΛ	100) to 1000A
			BA	0.1A	
			eading +	- 5cts (5(• · · · ·
		2.0% of Reading ± 5cts (50 to 500Hz)			
	, , , , , , , , , , , , , , , , , , , ,				,
-	-	0.00 to 99.99A	100.0 to	999.9A	1000 to 1400A
-	_	0.01A	0.1	1A	1A
		1.2% of	2.5%	% of	2.5% of
	_	Reading ± 5cts	Reading	± 5cts	Reading ± 5cts
	* *				
2.5% of Reading ± 5	5cts (500Hz to 3kHz)	2.5% of Rea	ading ± 5	octs (500	Hz to 3kHz)
1N	Λ Ω		1M	Ω	
0.0 to 999.9V	1000 to 1400V	0.0 to 999.	9V	100	0 to 1400V
0.1V	1V	0.1V 1V		1V	
1% of Read	ding ± 2cts	19	6 of Read	ding ± 20	cts
	Λ Ω		1M	lΩ	
2)					
0.0 to 999.9Ω	1000 to 9999Ω	0.0 to 999.9	9Ω	100	0 to 9999 Ω
0.1Ω	1Ω	0.1Ω			1Ω
1% of Reading ± 3	Bcts, 3.3Vbc (Vmax)	1% of Rea	$ding \pm 3$	cts, 3.3\	/DC (Vmax)
1% of Reading ± 3	Bcts, 3.3Vbc (Vmax)	1% of Rea	ıding ± 3	cts, 3.3\	/DC (Vmax)
					V - Hz
	-,			1	0,000Hz
					1Hz
1.0% of Rea	adıng ± 2cts	1.0	% of Rea	iding ± 2	ects .
0.5°C 1°	°C 1°F	0.5°C	1°0	C	1°F
0	ne 9V, NEDA 1604 (6F22	22) Alkaline battery (included)			
(no buzzer or bad	cklight) 35 hours	(no buzzer or backlight) 30 hours		0 hours	
				<u> </u>	
3 3/4 dinite I CD dual dies	nlay (may reading 0000)	1) 2 3/ digite LCD dual dieplay (may reading 0000			reading QQQQ\
	, ,	, , , ,			(Toduling 3333)
1.05" (4211111)		1.00 (4	40111111)	
		*-14° to 12), 80% RH,
	0.00 to 99.99A 0.01A 1.5% of Reading ± 2.0% of Reading ± 4.5% of Reading ± 4.5% of Reading ± 4.5% of Reading ± 1.0% of Reading ± 2.5% of Reading ± 2.5% of Reading ± 1.0% of	670 TRMS 0.00 to 99.99A 100 to 1000A 0.01A 0.1A 1.5% of Reading ± 5cts (50 to 60Hz) 2.0% of Reading ± 5cts (50 to 500Hz) 4.5% of Reading ± 5cts (500Hz to 3kHz) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 1.0% of Reading ± 5cts (50 to 500Hz) 1.000 to 1400V 0.1W 1V 1% of Reading ± 5cts (500Hz to 3kHz) 1V 1% of Reading ± 2cts 1MΩ 1% of Reading ± 2cts 1 1000 to 1400V 0.1Ω 1Ω 1% of Reading ± 3cts, 3.3Voc (Vmax) - - 1% of Reading ± 3cts, 3.3Voc (Vm	0.00 to 99.99A 100 to 1000A 0.00 to 99.5°C 0.5°C 1°C 1.65" (42mm) 0.00 to 99.99A 100 to 1000A 0.00 to 99.999 1.5% of Reading ± 5cts (50 to 60Hz) 1.5% of Reading ± 5cts (50 to 500Hz) 2.0% of Reading ± 5cts (50 to 500Hz) 4.5% of Reading ± 5cts (50 to 500Hz) 4.5% of Reading ± 5cts (50 to 500Hz) 1.2% of Reading ± 5cts (50 to 60Hz) 1.2% of Reading ± 5cts (50 to 500Hz) 2.5% of Reading ± 1.2% of Reading	0.00 to 99.99A	0.00 to 99.99A

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.49	Clamp-On Meter Model 670 (Dual Display, TRMS, AC Amps, AC/DC Volts, Ohms, Continuity, Frequency, & Temperature)	\$229.00	\$ 68.00
2117.50	Clamp-On Meter Model 675 (Dual Display, TRMS, AC/DC Amps & Volts, Ohms, Continuity, Frequency & Temperature)	\$289.00	\$ 68.00



100Aac/dc Low Current Clamp-On Meter



SPECIFICATION	S
MODEL	CM605
ELECTRICAL	Unicoo
AC Current	
Measurement Ranges	2 Ranges: 10A, 100A
Accuracy & Resolution	10A: 2.0% of Reading ± 10cts - 1mA Resolution
Accuracy & nesolution	80A: 2.0% of Reading ± 10cts - 10mA Resolution > 80A: 3.5% of Reading ± 10cts - 10mA Resolution
Frequency Range	2 Ranges: 50 to 500Hz
DC Current (positive only)	
Measurement Ranges	2 Ranges: 10A, 100A
Accuracy & Resolution	10A: 2.5% of Reading \pm 10cts - 1mA Resolution 80A: 2.5% of Reading \pm 10cts - 10mA Resolution > 80A: 4.5% of Reading \pm 10cts - 10mA Resolution
AC Volts	
Measurement Ranges	600Vrms
Accuracy & Resolution	1.5% of Reading ± 5cts - 100mV Resolution
Frequency	40 to 500Hz
Input Impedance	10MΩ, < 50pF
DC Volts (positive only)	
Measurement Ranges	600V
Accuracy & Resolution	1.0% of Reading ± 2cts - 100mV Resolution
Input Impedance	10ΜΩ
Resistance (Ohms)	
Measurement Ranges	10kΩ (9999Ω)
Accuracy & Resolution	1.0% of Reading \pm 3cts - 1Ω Resolution
Test Voltage	< 3.0VDC
Continuity	
Measurement Ranges	Buzzer $< 100\Omega \pm 25\Omega$
Resolution	1Ω
Test Voltage	< 3.0VDC
Analog Output	
Output	10mV/Aac & Abc through front banana jacks
Frequency	0 to 20kHz @ ± 3db
Output Impedance	3 k $\Omega, < 50$ pF
Other Functions	
Anc Zero & Relative Function	One touch push button (\(\text{\Delta} ZERO \) Button) to Zero \(\text{\Delta} \)c, or other readings. Relative function also used in the other ranges to compare two measurements.
HOLD Function	Holds A & V measurements when pressed (HOLD button)
PEAK Function	Captures PEAK (1ms) V or A measurement when activated (PEAK Button)
Auto-Ranging	"AUTO" displayed on LCD
Over Range	"OL" displayed on LCD for all measurements
Auto-Off	Auto-Off after approx 10 minute with Over-Ride
Low Battery	Low Battery indication on LCD
MECHANICAL	G 0 4511 (12)
Max. Cable Diameter	Ø 0.45" (12mm)
Max. Jaw Opening	Ø 0.60" (15mm)
Power Source	Two 1.5V AAA (LR03) batteries (included)
Dimensions & Weight	7.95 x 2.76 x 1.33" (202 x 70 x 34mm) – 6.5 oz (180g)
Safety Standards	IEC/EN 61010-1 and 2-032 – 600V CAT II and 300V CAT III – Pollution Degree 2 Class 2 – Double or reinforced insulation, CE mark

- 10,000-count LCD Display -Excellent Resolution
- 100AAC/DC Ammeter with low 10A Range (1mA Resolution)
- Tapered Jaws for crowded wiring areas (Ø.60"- 15mm Jaw Opening)
- 600VAC/DC Voltmeter
- Analog Output in AAC/DC
- Auto-Ranging & Add Zero Push-button
- Data HOLD & PEAK Functions
- Relative Function to Compare Two Measurements
- Ohm Range & Continuity Test with Beeper
- AUTO-OFF and Low Battery Indicator
- IEC/EN 61010 Safety Rated & CE Mark
- 600Vrms Overload Protection

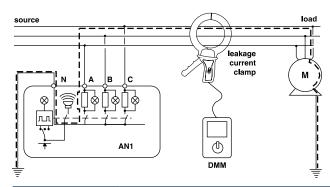


Model CM605 includes test leads, soft carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
7000.02	Clamp-On Meter Model CM605 (100AAC/DC, Low Current)	\$249.00	\$65.00



- · 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



SPECIFICATIONS				
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	12V₀c – Eight 1.5V AA batteries (included)			
Power Consumption	180mA			
Battery Life	Approx. 40 hours of use			
MECHANICAL	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	\$699.00	-
Accessories (Optional			
2125.52	Leakage Current Probe Model 2620 (4A-1V/A, 400A-1mV/A output)	\$549.00	\$72.00



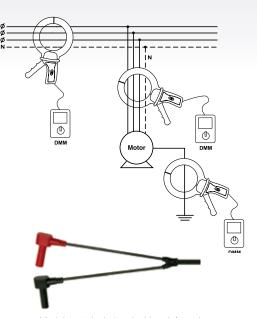
AC Leakage Current Probe Model 2620

Check for leakage and locate insulation breakdowns on

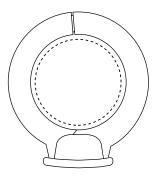


SPECIFICATIONS					
MODEL	2620				
ELECTRICAL					
	4A Range	400A Range			
Current Range	rrent Range 500µA to 4A 500mA to				
Output Signal	1mV/mA (4V max)	1mV/A (400mV max)			
Accuracy 500μA to 10mA 10mA to 100mA 100mA to 4A 500mA to 10A 10A to 100A 100A to 400A Phase Shift 500μA to 10mA 10mA to 100mA 10mA to 100mA 100mA to 4A 500mA to 10A	0.5% of Reading ± 0.5mV 0.5% of Reading ± 0.5mV - - - <15° <10° -	- - 0.5% of Reading ± 0.5mV 0.35% of Reading ± 0.5mV 0.35% of Reading ± 1mV - - - <1° <0.6°			
Load Impedance	1MΩ min	1MΩ min			
Frequency Range	48 to 1000Hz	48 to 1000Hz			
MECHANICAL					
Dimensions	11.22 x 6.89 x 1.77" (285 x 175 x 45mm)				
Weight	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)	\$549.00	\$72.00
Accessories (Optional			
1971.01	Artificial Neutral Model AN-1	\$699.00	-

TRMS Clamp-On Leakage Current Meter Model 565

- · 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
- · Backlight display





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)

SPECIFICATIONS					
MODEL		565 1	TRMS		
mA AC Current (TRMS, Auto-Ranging)		0 to 6	00mA		
Resolution 60mA 600mA		0.01m <i>A</i> 0.1mA	(1ÒOμA)		
Accuracy	50 to 60Hz 50 to 500Hz 500Hz to 3kHz	1.2% of Rea 2.5% of Rea 3.5% of Rea	ading ± 5cts		
AC Current (TRMS, A	uto-Ranging)	10 to	100A		
Resolution	10A 100A	0.001 <i>A</i> 0.01A			
Accuracy	50 to 60Hz 50 to 500Hz 500Hz to 3kHz	1.2% of Rea 2.5% of Rea 3.5% of Rea			
AC Voltage (TRMS)		0 to	600V		
Accuracy	50 to 60Hz 50 to 500Hz 500Hz to 3kHz	1.2% of Reading ± 5cts			
DC Voltage		0 to 600V			
Resolution		0.1V			
Accuracy		1.0% of Reading ± 3cts			
Resistance		0 to 1k Ω			
Accuracy		1.0% of Reading ± 3cts			
Continuity		Buzzer activates	<35Ω (0 to 1kΩ)		
Frequency (Auto-Rar	nging)				
Function		A-Hz	V-Hz		
Resolution	0 to 100Hz 100Hz to 1kHz				
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		Two 1.5V AAA batteries (included)			

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2117.56	Clamp-On Leakage Current Meter Model 565 (TRMS, 100A, 600VAC/DC, Hz, Ohms, Continuity)	\$269.00	\$72.00

AC Current Probe Model SR759



SPECIFICATIONS			
MODEL	SR759		
MEASUREMENTS			
Measurement Range 1 mA to 1AAc 10mA to 10AAc 0.1 to 100AAc 1 to 1000Aac 1 to 1000Aac			
Output Signal	1000mVac/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
- 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)	\$299.00	\$75.00

AC Current Probe Models MN103 & MN114



SPECIFICATIONS						
MODELS	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

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1031.02	AC Current Probe Model MN103 (Lead – 1mV/mA – 10A max & 1mV/A – 100A max)	\$184.00	\$65.00
2110.71	AC Current Probe Model MN114 (Lead – 100mV/A – 10A max)	\$179.00	\$65.00



- 5 complementary tools in a single instrument: Oscilloscope, FFT Analyzer, Multimeter/ Wattmeter, Harmonic Analyzer on voltage/ current/power and Recorder
- Sampling rate 2.5GS/s in one-shot mode and 100GS/s in ETS mode (repetitive signals)
- 2 or 4 isolated measurement channels (600V CAT III) and up to 8 traces on screen
- 2 or 4 independent TRMS digital multimeters (8000 counts, 200kHz)
- LCD touch screen and Windows-like menus on screen
- Probix "plug & play" input terminals and smart sensors
- Standard "real-time" FFT analysis and calculation functions on channels
- Multi-interface communication connectors: RS232, Centronics and Ethernet
- Memory depth of up to 50,000 points per channel (Oscilloscope and Recorder modes)
- Triggering on measurement thresholds in Oscilloscope and Multimeter modes
- NEW Web Server (FTP server/client) with cursors and automatic measurements
- NEW MiniFlex® sensors, powered by the instrument
- NEW Power measurement option included for your power measurements
- NEW Adapter for measuring up to 700VAC RMS 1000Vpc in meter mode



Model OX7104" Kit



	V V .				
SPECIFICATIONS					
MODELS	0X7102 ^{III} 0X7104 ^{III}				
INTERFACE					
Screen Specifications	Color 5.7" LCD (115 x 86mm) 320 x 240 – CCFL backlighting				
Display Mode	Vectors with interpolation				
No. of Traces on Screen		and full screen modes (tracing zone 110 x 74)			
Front Panel Control		shortcuts			
Screen Control	Touch screen – "Windows-like'	" menus and graphic commands			
VERTICAL					
Vertical Sensitivity		up to 156µV/div in verticle zoom mode curacy ± 1% of Reading			
Bandwidth	100)MHz			
Channels	Two isolated channels	Four isolated channels			
Accuracy	±0.1% o	f Reading			
Input Impedance		± 0.5%			
Max Input Voltage	600Vpc, 600Vrms, 850Vpk (DC + p	eak AC at 1kHz) without 10/1 probe			
	1000Vrms w	ith 10/1 probe			
Vertical Zoom	derating -20 dB/decade from 100kHz to 100MHz Zoom factor: from 1 to x 100				
HORIZONTAL	ZOOM TACTOL. HOM 1 to X 100				
Time Base Speed					
Accuracy	accuracy ± 0.1% - Roll mode from 100 ms to 200 s/div				
Horizontal Zoom	x100 maximum				
DIGITAL MEMORY	A TOU IIIAAIIIIUIII				
Max. Sampling Speed	100GS/s in FTS = 2 5GS/s in Si	ngle Shot Mode on each channel			
Vertical Resolution		bits			
Memory Capacity per Channel	"TRC" approx. 10kB	s, "TXT" approx. 20kB			
User Memory		MB			
Other Modes	Envelope mode (Fa	actors from 2 to 64)			
XY Mode	Between two from the four traces – math functions and cursors				
OTHER FUNCTIONS	THER FUNCTIONS				
Autoset	Complete autoset < 3s with recogn	nition of channels, Frequency >30Hz			
Trigger Mode	Automatic Triggered, Sir	ngle shot, Auto Level 50%			
FT Analyzer & 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 (included)				
Battery Life		n when fully charged			
Communication	Ethernet, RS-2	32, Web Server			



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Features

- 5 complementary tools in a single instrument: Oscilloscope, FFT Analyzer, Multimeter/Wattmeter, Harmonic Analyzer on voltage/current/power and Recorder
- Sampling rate 2.5GS/s in one-shot mode and 100GS/s in ETS mode (repetitive signals)
- 2 or 4 isolated measurement channels (600V CAT III) and up to 8 traces on screen
- 2 or 4 independent TRMS digital multimeters (8000 counts, 200kHz)
- LCD touch screen and Windows-like menus on screen
- Probix "plug & play" input terminals and smart sensors
- Standard "real-time" FFT analysis and calculation functions on channels
- Multi-interface communication connectors: RS232, Centronics and Ethernet
- Memory depth of up to 50,000 points per channel (Oscilloscope and Recorder modes)

∩⊻72∩4^{|||}

- Triggering on measurement thresholds in Oscilloscope and Multimeter modes
- NEW Adapter for measuring up to 700Vac RMS 1000Vpc in meter mode
- NEW Web Server (FTP server/client) with cursors and automatic measurements
- NEW MiniFlex® sensors, powered by the instrument
- NEW Power measurement option included for your power measurements

MIONERS	UX72U2*** UX72U4***			
INTERFACE				
Screen Specifications	Color 5.7" LCD (115 x 86mm) 320 x 240 – CCFL backlighting			
Display Mode	Vectors with interpolation			
No. of Traces 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				
Vertical Sensitivity		l up to 156µV/div in verticle zoom mode		
		curacy ± 1% of Reading		
Bandwidth		DMHz		
Channels	Two isolated channels	Four isolated channels		
Accuracy		of Reading		
Input Impedance	111122	± 0.5%		
Max Input Voltage	600Vpc, 600Vrms, 850Vpk (DC + peak AC at 1kHz) without 10/1 probe			
	1000Vrms with 10/1 probe			
Vestinal 7- am	derating -20 dB/decade from 100kHz to 200MHz			
Vertical Zoom	x5 maximum			
HORIZONTAL				
Time Base Speed	35 ranges from 1ns/div to 200s/div			
Accuracy		de from 100 ms to 200 s/div		
Horizontal Zoom	x100 maximum			
DIGITAL MEMORY				
Max. Sampling Speed	100GS/s in ETS – 2.5GS/s in Si	ngle Shot Mode on each channel		
Vertical Resolution		bits		
Memory Capacity per Channel	"TRC" approx. 10kB	B, "TXT" approx. 20kB		
User Memory	2MB			
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 < 3s with recognition of channels, Frequency >30Hz			
Trigger Mode	Automatic Triggered, Single shot, Auto Level 50%			
FT Analyzer & Math Functions	FT, $+$, $-$, x , $/$ – Editor of mathematical functions			
Cursors	Two or three cursors: V and T simultaneous of	or Phase Resolution 12 bits, display four digits		
Power Source	Rechargeable 9V 3.8	BAh battery (included)		

Four hour operation when fully charged

Ethernet, RS-232, Web Server



Model OX7202" Kit



Battery Life

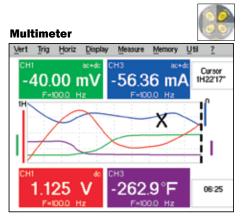
Communication

MODELS

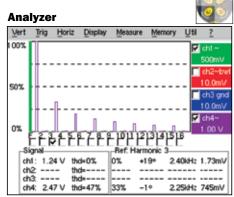
Four Tools in One!

Recorder Vert Trig Horiz Display Measure Memory Util 06:25 Wen,17:14:20 Lun,10:23:10 Lun,14:48

The OX^{III} Series 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.

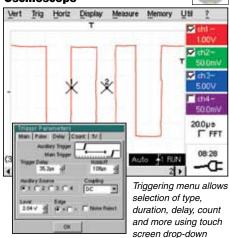


Automatic recording of the measured values are stored in memory on all active channels allowing review of periods lasting from five minutes to 24 hours.



Harmonic analysis results are displayed in bargraph form.

Oscilloscope



menu

Probe accessory options for Models 0X7102^{III} & 0X7104^{III}



MiniFlex® 0.5A to 300A, 3MHz Catalog #2124.92



PROBIX PRHX5 50Ω Adapter Catalog #2124.75



CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2124.58	Handheld Oscilloscope Model OX7102 ^{III} 100MHz	\$4,595.00	\$142.00
2124.59	Handheld Oscilloscope Model OX7202 ^{III} 200MHz	\$5,395.00	\$142.00
2124.67	Handheld Oscilloscope Model OX7104III 100MHz	\$5,595.00	\$162.00
2124.68	Handheld Oscilloscope Model OX7204 ^{III} 200MHz	\$6,695.00	\$162.00
Accessories (Optiona	1)		
2124.75	PROBIX PRHX5, 50Ω Adapter	\$ 109.00	-
2124.91	AmpFlex® 0.5A to 3kA, 200kHz for use with Oscilloscope OX Series	\$ 499.00	-
2124.92	MiniFlex® 0.5A to 300A, 3MHz for use with Oscilloscope OX Series	\$ 559.00	-



Current Measurement Probes



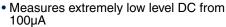


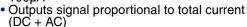


Five questions for selecting the proper Current Measurement Probe

- 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





- 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



- Models ranging from 30 to 30,000ArmsAccuracy 1% of Reading
- TRMS measurements when connected to a TRMS instrument
- 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

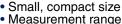


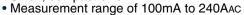
- Small, compact and very tough AC probes "Clothes pin" shape makes them ideal for
- use in tight areas, such as breaker panels, controller panels, or outlets
- Measurements from 1mA to 150AAC
- Excellent companions to all DMMs. Permits very low AC current measurements

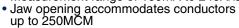
Note: Product image size not proportionate.

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/1500ADC (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/150Abc
- 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 EN 61010, 600V CAT III safety standards
- CE Mark, UL approved



Oscilloscope & BNC Terminated Probes



Model	Measurem	Measurement Range		Phase	Maximum Conductor 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 0.5 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 UL approved; please consult factory.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1201.51	AC/DC Current Probe Model SL261 (10A-100mV/A, 100A-10mV/A, BNC)	\$449.00	\$94.00
2115.82	AC Current Probe Model MN261 (24A-100mV/A, 240A-10mV/A, BNC)	\$179.00	\$65.00
1200.72	AC Current Probe Model MR461 (60A-10mV/A, 600A-1mV/A, BNC)	\$359.00	\$65.00
1200.73	AC Current Probe Model MR561 (150A-10mV/A, 1500-1mV/A, BNC)	\$399.00	\$65.00
2113.49	AC Current Probe Model SR661 (10A-100mV/A, 100A-10mV/A, 1000A-1mV/A, BNC)	\$299.00	\$75.00
2110.90	AC Current Probe Model JM861 (30A-10mV/A, 300A-1mV/A, 3000A-0.1mV/A, BNC)	\$495.00	\$98.00



General Purpose Probes



Series	Model Ratio		Measurement Range		Output Signal		Phase Shift*	Maximum Conductor Size		Output Connection	Catalog No.	Price**
			AC	DC	Current	Voltage		Ø Cable	Bus Bar			
	MN01	-	2 to 150A	-	1mAac/Aac	_	N/A	0.47" (12mm)	N/A	Lead	2129.17	\$79.00
	MN02	1000:1	50mA to 100A 50mA to 90A	_	1mA/A	-	N/A	0.39" (10mm)	N/A	Lead	2129.20	\$109.00
	MN03	-	2 to 100A	-	ı	1mV/A	N/A	0.47" (12mm)		Lead	2129.18	\$89.00
	MN05	-	5mAac to 10Aac 1 to 100Aac	_	ı	1mVac/mAac 1mVac/Aac	N/A		N/A	Lead	2129.19	\$99.00
	MN103	-	1mA to 10A 1 to 100A	_	-	1mVac/mAac 1mVac/Aac	N/A			Lead	1031.02	\$184.00
	MN106	1000:1	2 to 150A	-	1mAac/Aac	-	<10°			Lead	1031.17	\$159.00
	MN114	-	1mA to 10A	-	-	100mVac/Aac	<8°			Lead	2110.71	\$179.00
	MN185	1000:1	50mA to 150A	-	1mAac/Aac	-	<3.5°			Jack	100.185	\$124.00
	MN213	1000:1	0.5 to 240A	-	1mAac/Aac*	-	<2.5°	0.78" (19.8mm)	N/A	Lead	2115.75	\$119.00
	MN251	-	0.5 to 240A	-	-	1mVac/Aac	<2.5°			Lead	2115.77	\$139.00
	MN253	-	0.5 to 240A	-	-	10mVac/Aac	<2.5°			Lead	2115.79	\$139.00
	MN255	-	0.1 to 24A 0.1 to 240A	-	_	100mVac/Aac 10mVac/Aac	<2.5°			Lead	2115.81	\$149.00
	MN291	-	0.5 to 240A	-	-	100mVpc/Aac	N/A			Lead	2115.84	\$129.00
	MN307	-	10mA to 12A	-	-	100mV/Aac	<2.5°			Lead	2116.23	\$179.00
	MN312	1000:1	0.1 to 200A	-	1mAac/Aac	-	<2.5°			Jack	2116.24	\$159.00
	MN313	1000:1	0.1 to 200A	-	1mAac/Aac	-	<2.5°			Lead	2116.25	\$169.00
	MN352	-	0.1 to 150A	-	-	10mV/Aac	<2.5°	0.78" (19.8mm)	N/A	Jack	2116.26	\$169.00
	MN353	-	0.1 to 150A	-	-	10mV/Aac	<2.5°			Lead	2116.27	\$189.00
	MN373	-	0.01 to 2.4A 0.1 to 200A	-	-	1000mV/Aac 10mV/Aac	<3°			Lead	2116.28	\$199.00
	MN375	-	0.1 to 10A	-	-	100mV/Aac	<1.5°			Lead	2115.41	\$219.00
0	SL206	-	10mA to 1.5A 50mA to 60A	10mA to 2A 50mA to 80A	-	1mV/mAac/dc 10mV/Aac/dc	<1°	0.46" (11.8mm)	N/A	Lead	1201.45	\$379.00
P	MD301	1000:1	2 to 500A	-	-	1mVdc/Aac	N/A			Lead	1201.07	\$175.00
10	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	\$269.00
Ó	MD305	1000:1	1 to 600A	-	1mAac/Aac	_	<1°	Z A JUUNUIIIII		Lead	1201.36	\$259.00

*Phase shift indicated at maximum rating
**Consult factory for NIST Calibration price
Note: Only Models MN103, MN106, MN114 & MN185 are not CE. MN200 & MN300 series probes are UL approved.





General Purpose Probes

Series	Model	el Ratio	Measurement Range		Output Signal		Phase Shift**	Maximum Conductor Size		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°		1.96 x 0.19" (50 x 5mm)	Jack	2113.43	\$179.00
	SR604	1000:1	0.1 to 1000A	-	1mAac/Aac*	-	<0.5°			Lead	2113.44	\$189.00
	SR632	1000:5	0.1 to 1000A	_	5mAac/Aac*	-	<1°			Lead	2114.79	\$239.00
	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	\$249.00
7	SR651	-	0.1 to 1000A	-	_	1mVac/Aac	<0.5°			Jack	2113.45	\$179.00
J	SR701	1000:1	1mA to 1000A	_	1mAac/Aac*	-	<0.5°	2.05" 1.96 x 0.19" (52mm) (50 x 5mm)		Jack	2116.29	\$229.00
	SR704	1000:1	1mA to 1000A	_	1mAac/Aac*	-	<0.5°			Lead	2116.30	\$239.00
	SR752	-	0.1 to 1000A	-	_	1mVac/Aac	<0.7°		Lead	2116.32	\$299.00	
	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	\$299.00
	JM810A	2000:2	1 to 2000A	_	1mAac/Aac	_	<0.5°			Lead	2110.80	\$474.00
6	JM813	3000:3	1 to 2400A	-	1mAac/Aac	_	<0.5°	2.52" (50 x 135mm) (64mm) 2.52 x 3.94" (64 x 100mm)	1.97 x 5.31"	Jack	2110.93	\$474.00
	JM830A	3000:1	1 to 2400A	-	.33mAac/Aac	-	<0.5°			Lead	2110.83	\$474.00
	JM850A	1000:1 2000:1 3000:1	1 to 1000A 1 to 2000A 1 to 2400A	-	1mAac/Aac .5mAac/Aac .33mAac/Aac	-	<0.5°		2.52 x 3.94"	Jack	2110.87	\$495.00
	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	\$495.00	

^{*}Diode Protection for open secondary (Output)

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



^{**}Phase shift indicated at maximum rating
***Consult factory for NIST Calibration price

Note: SR series probes are UL approved.

High Frequency Oscilloscope Compatible



- Measures from 0.5Arms to 300Arms
- Accuracy 1% of Reading ± 0.3A
- TRMS measurements when connected to a TRMS instrument
- · No core saturation or damage if overloaded
- 9V battery for typical 140 hour continuous operation
- 1MHz frequency response
- · Low phase shift for power measurements
- Insensitive to DC, measures only AC component on DC + AC signals
- Excellent linearity
- Lightweight
- Sensor is resistant to oils and aliphatic hydrocarbons
- Perfect accessory for all oscilloscopes

MODELO	ME 000 0 0 10 UE	ME 000 40 0 40 UE				
MODELS	MF 300-6-2-10-HF	MF 300-10-2-10-HF				
ELECTRICAL						
Range	30/3	00A				
Signal Output	100mV/10mV/A					
Frequency Range	5 to 1MHz	₂ @ -3db				
Influence Of Conductor Positioning	1.5% typica	ıl, 3% max				
Influence Of Conductor Positioning In Sensor Against Handle	4% typical, 6% max					
External Conductor Influence	35dB to 40dB on contact					
Power Source	9V Alkaline battery (6LF22)					
MECHANICAL						
Sensor Diameter	5mm Ø					
Sensor Length	6" (152mm)	10" (250mm)				
Max Conductor Size	1.77" (45mm)	2.95" (70mm)				
Connection Cable Length	6.5 ft (2m)					
Drop Test	Per IEC 68-2-32					
Vibration	Per IEC 68-2-6					
Mechanical Shock	Per IEC 68-2-27					
Weatherproofing	IP S	50				
ENVIRONMENTAL						
Operating Temperature Range	14° to 131°F (-10° to +55°C)					
Storage Temperature Range	-40° to 158°F (-40° to +70°C)					
Altitude		Operating: 0 to 2000m, working voltage derating above; Non-operating: 0 to 12,000m				
SAFETY						
Safety Rating	EN 61010, 1000V C	AT III: 600V CAT IV				



Model MF 300-10-2-10-HF (10" probe)

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2126.83	MiniFlex® Flexible AC Current Probe Model MF 300-6-2-10-HF	\$569.00	_
2126.84	MiniFlex® Flexible AC Current Probe Model MF 300-10-2-10-HF	\$599.00	_

MiniFlex® Flexible Current Probe for General Use

Features

- Measures from 0.5Arms to 3000Arms
- Accuracy 1% of Reading ± 0.25A
- TRMS measurements when connected to a TRMS instrument
- · No core saturation or damage if overloaded
- Overrange LED for measurement circuitry
- 20kHz frequency response
- Low phase shift for power measurements
- Insensitive to DC, measures only AC component on DC + AC signals
- Excellent linearity
- 9V Alkaline battery, provides typical 150 hours of continuous operation
- EN 61010; 1000V CAT III; 600V CAT IV







Model MF 300-6-2-10 (6" probe)





Model MF 3000-10-2-1 (10" probe)

PATING PATING					
SPECIFICATIONS					
MODELS	MF 300-6-2-10	MF 3000-10-2-1			
ELECTRICAL					
Range	30/300A	300/3000A			
Signal Output	100mV/10mV/A	10mV/1mV/A			
Frequency Range	10 to 20kHz with	current derating			
Influence Of Conductor Positioning	1.5% typical, 3% max				
Influence Of Conductor Positioning In Sensor Against Handle	4% typical, 5% max				
External Conductor Influence	35dB to 40dl	B on contact			
Power Source	9V Alkaline bat	tery (included)			
MECHANICAL					
Sensor Diameter	5mm Ø (vs 12.	5 for AmpFlex®)			
Sensor Length	6" (152mm)	10" (250mm)			
Max Conductor Size	1.77" (45mm)	2.95" (74.9mm)			
Connection Cable Length	6.5 ft	1 /			
Drop Test	Per IEC 6				
Vibration	Per IEC				
Mechanical Shock	Per IEC 6	:			
Weatherproofing	IP 45 (EN	N60529)			
ENVIRONMENTAL					
Operating Temperature Range	14° to 131°F (,			
Storage Temperature Range	-40° to 158°F (· · · · · · · · · · · · · · · · · · ·			
Altitude	Operating: 0 to 2000m, working voltage derating above; Non-operating: 0 to 12,000m				
SAFETY					
Safety Rating	EN 61010, 1000V C Pollution				

DESCRIPTION		
	PRICE	NIST CALIBRATION
MiniFlex® Flexible Current Probe Model MF 300-6-2-10	\$369.00	\$94.00
MiniFlex® Flexible Current Probe Model MF 3000-10-2-1	\$389.00	\$94.00
al)		
Adapter – BNC (Female) to 4mm Banana (Male)	\$ 12.95	-
	MiniFlex® Flexible Current Probe Model MF 300-6-2-10 MiniFlex® Flexible Current Probe Model MF 3000-10-2-1 al)	MiniFlex® Flexible Current Probe Model MF 300-6-2-10 \$369.00 MiniFlex® Flexible Current Probe Model MF 3000-10-2-1 \$389.00 al)



AmpFlex® Flexible Current Probes





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

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Model	Measurement Range	Output	Sensor Length inches (mm*)	Max Conductor Size inches (mm*)	Catalog No.	Price**
300-24-2-10	30/300A	100/10mV/A	24 (610)	8 (190)	2112.88	\$329.00
1000-24-1-1	1000A	1mV/A	24 (610)	8 (190)	2112.39	\$309.00
1000-24-2-1	100/1000A	10/1mV/A	24 (610)	8 (190)	2112.98	\$329.00
1000-36-2-1	100/1000A	10/1mV/A	36 (910)	11 (290)	2113.00	\$389.00
3000-24-2-0.3	300/3000A	3.3/0.3mV/A	24 (610)	8 (190)	2114.87	\$359.00
3000-24-1-1	3000A	1mV/A	24 (610)	8 (190)	2112.46	\$339.00
3000-36-1-1	3000A	1mV/A	36 (910)	11 (290)	2112.48	\$379.00
3000-24-2-1	300/3000A	10/1mV/A	24 (610)	8 (190)	2113.05	\$349.00
3000-36-2-1	300/3000A	10/1mV/A	36 (910)	11 (290)	2112.00	\$405.00
3000-48-2-1	300/3000A	10/1mV/A	48 (1220)	15 (390)	2112.01	\$455.00
6000-36-2-0.1	600/6000A	1/0.1mV/A	36 (910)	11 (290)	2113.21	\$519.00
30000-24-2-0.1	3000/30,000A	1/0.1mV/A	24 (610)	8 (190)	2113.33	\$689.00

^{*}Dimensions rounded off Note: Output is safety shrouded 4mm male banana plug

**Consult factory for NIST Calibration prices

Consult factory for special offers and ranges/lengths not shown here.

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FlexProbe® Flexible Current Probe Model 24-3001





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

SPECIFICATIONS	
MODEL	24-3001
ELECTRICAL	
Current Range	300/3000 A ac
Output Signal	mV output (4000mV peak max)
Three Position Slide	
Switch 10mV/A 1mV/A 0N/0FF	5A to 300Arms 50A to 3000Arms
Power Source	9V Alkaline battery (included)
MECHANICAL	
Maximum Conductor Size	7.6" (193mm)
Sensor Length	24" ± 1" (610mm ± 25.4mm)
Cable Length	6.5 ft (2m)
Output Connection	Double insulated 14" (355mm) lead with safety banana plugs

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 (battery included)
- 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

- · 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 150 hours of battery life
- · Dual banana plug termination for direct input into DMMs
- Flashing LED low battery indicator
- 9V Alkaline battery, provides typical 150 hours of continuous operation (battery included)
- EN 61010, 1000V CAT III, 600V CAT IV, Pollution Degree 2

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2120.81	FlexProbe® Model 24-3001 (300/3000Aac, 24", 10mV/A/1mV/A, Lead)	\$279.00	\$61.00
Accessories (Optiona	ıl)		
2118.46	Adapter – Banana (Female) – BNC (Male) (XM-BB)	\$ 39.50	_



Features

- MR400 Series has a measurement range of 400Aac/600Abc
- MR500 Series has a measurement range of 1000Aac/1500Abc
- 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

AC/DC Current Probe MR400 & MR500 Series

SPECIFICATIONS					
MODELS	MR411	MR521			
Measurement Range AC	0.2 to 40A 0.5 to 400A	0.2 to 100A 0.5 to 1000A			
Measurement Range DC	0.4 to 60A 0.5 to 600A	0.4 to 150A 0.5 to 1500A			
Output Signal Voltage (mV) (AC in AC, DC in DC)	10mV/A 1mV/A	10mV/A 1mV/A			
Maximum Conductor Size Ø Cable	One 1.18" (30mm) Two 0.95" (24mm) Two x 500kcmil	One 1.5" (39mm) Two 0.98" (25mm)			
Bus Bar	Two 1.2 x 0.4" (31.5 x 10mm)	Two 1.96 x 0.19" (50 x 5mm)			
Output Connection	Lead with safety banana plug	Lead with safety banana plug			
Power Source	One 9V Alkaline battery (included)				





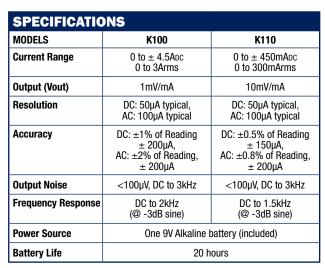
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CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1200.68	AC/DC Current Probe Model MR411 (Lead – 10mV/A – 60A max & 1mV/A – 600A max)	\$349.00	\$65.00
1200.69	AC/DC Current Probe Model MR521 (Lead - 10mV/A - 150A max & 1mV/A 1500A - max)	\$369.00	\$65.00

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
- Red LED indicates momentary or continuous overload
- Green LED indicates power and battery condition

DC/AC MicroProbe Models K100 & K110





CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1200.67	DC/AC MicroProbe Model K100 (1mV/mA – 4.5A max)	\$619.00	\$65.00
2111.73	DC/AC MicroProbe Model K110 (10mV/mA – 450mA max)	\$659.00	\$65.00

DC Power Supply Models AX502 & AX503





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

Catalog #2117.78

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

Decade Box Models BR07 & BC05









CE

SPECIFIC	ATIONS							
DECADE	1	2	3	4		5	6	7
BR07	1 to 10Ω; Max current: 700mA	10 to 100Ω; Max current: 200mA	$\begin{array}{c} 100\Omega \text{ to } 1\text{k}\Omega;\\ \text{Max current:}\\ \text{70mA} \end{array}$	1 to 1 Max cu 20r	irrent:	10 to 100kΩ; Max current: 7mA	$100 \text{k}\Omega$ to $1 \text{M}\Omega$; Max current: 1mA	$\begin{array}{c} \text{1 to 10M}\Omega;\\ \text{Max current:}\\ \text{0.1mA} \end{array}$
BC05	0.1 to 1nF	1 to 10nF	10 to 100nF	100nF	to 1µF	1 to 10μF	-	_
MODELS		BR07					BC05	
Accuracy		1%				3% (low re	sidual capacitar	nce)
Residual Capacitance	– 25pF (approx.)							
Max Operating Voltage	- 300Vpc, 230Vac (50Hz)							

- 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
- Resistance ranges are 1Ω to 11.111111M Ω for BR07 and 0.1nF to 11.111 μ F for BC05

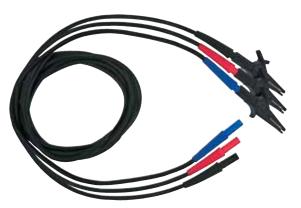
CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2130.06	DC Power Supply Model AX502 (Dual outputs, 0 to 2.5A; 0 to 30Vpc)	\$775.00	\$72.00
2130.07	DC Power Supply Model AX503 (Triple outputs, two 0 to 2.5A; 0 to 30Vpc; 5A; 2.7 to 5.5Vpc)	\$875.00	\$72.00
2131.25	Resistance Decade Box Model BR07 $(x1\Omega, x10\Omega, x10\Omega, x1k\Omega, x10k\Omega, x100k\Omega, x1M\Omega, 1\%)$	\$180.00	\$98.00
2131.26	Capacitance Decade Box Model BC05 (x0, 1nF, x1nF, x10nF, x10nF, x1knF, 3%)	\$192.00	\$98.00
Accessories (Optiona	ıl)		
2117.78	Set of 3, (2 Color-coded Safety Leads, 1 Ground Lead, 2 Color-coded Alligator Clips and 2 Color-coded Grip Probes) for Power Supply Models AX501-AX503	\$ 99.95	-
2131.35	Lead - Replacement, 6 ft. Safety Lead, 4mm Female to Female for use with Decade Boxes	\$ 14.95	-



Phase and Motor Rotation Tester Models 6608 & 6609

- Indication of live phase presence or phase absence
- Determination of a motor's rotation direction with or without contact (Model 6609)
- Automatic testing as soon as the instrument is connected
- Terminals and cables identified by color-coding to simplify connection
- Phase rotation indicators (Model 6608)
- · Phase and motor rotation indicators (Model 6609)
- · Color-coded leads (red, black, blue) and alligator clips (black)
- Simple operation
- · Line supplied no battery needed (Model 6608)
- 600V CAT III rated





Each model includes a carrying case, 3 test leads (4 ft), 3 alligator clips and a user manual

SPECIFICATIONS						
MODELS	6608	6609				
ELECTRICAL						
Operating Voltage	40 to 850Vac between phases With leads connected 40 to 600Vac between p Without leads connected Without leads connected 120 to 400Vac between p					
Frequency Range	15 to 4	400Hz				
Power Supply	Self-powered via the measurement inputs 9V Alkaline battery (inclu					
Electrical Safety	600V CAT III					
MECHANICAL						
Dimensions	5.1 x 2.7 x 1.3" (1	30 x 69 x 32mm)				
Weight	4.5 oz (130g)	6 oz (170g)				
ENVIRONMENTAL						
Operating Temperature	32° to 104°F	(0° to 40°C)				
Storage Temperature	-4° to 122°F (-20° to 50°C); RH < 80%					
SAFETY						
Safety Ratings	IEC 61010-1, DIN VDE 0411; IEC 61557-7, DIN VDE 0413-7; Tightness: IP 40 (as per IEC 60529 Ed.92)					

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.10	Phase Rotation Meter Model 6608	\$69.00	_
2121.11	Phase & Motor Rotation Meter Model 6609	\$99.00	-

Outlet Tester Model OT-2

Features

- 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

Application

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



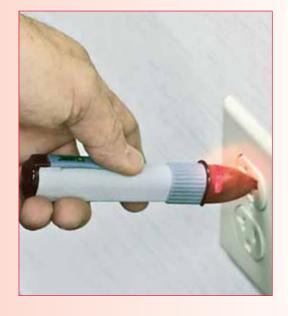
AC Line Splitter Model ALS-1

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

Features

- 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





AC Voltage Detector Model NC-1





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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 Alkaline (included)				
Safety	For indoor use and in accordance with over voltage 600V CAT III, Pollution Degree 2				

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2121.03	Outlet/GFCI Tester Model OT-2 (110V US)	\$ 7.95	-
2121.05	AC Line Splitter Model ALS-1	\$14.95	_
2121.09	Non-Contact 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 energizingthe complete system
- Designed for use with hot sticks incorporating a shotgun adapter





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

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 (included)	
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)	

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

10A Micro-Ohmmeter Model 6240



- 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 spaded lugs
- Rechargeable NiMH battery with internal charger (110/220V)
- Large multifunctional backlit display
- Includes isolated USB cable and power cord
- Includes DataView® software for data storage, real-time display, analysis and report generation and user manual

SPECIFICA	TIONS					
MODEL			62	40		
Range	4000μΩ	40m $Ω$	400m $Ω$	4000mΩ	40Ω	400Ω
Accuracy	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts
Resolution	1μΩ	10μΩ	$0.1 \text{m}\Omega$	1mΩ	10m Ω	100m Ω
Test Current	10A	1A	1A	100mA	10mA	10mA
Memory	Stores up to 99 test results					
Power Source	Recha	Rechargeable 6V, 8.5Ah NiMH battery pack (included)				



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 #2118.79 Kelvin clips, set of two, (1-10A) 20 ft Catalog #2118.80

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2129.80	10A Micro-Ohmmeter Model 6240 (includes one set of 10A Kelvin clips – Catalog #1017.84)	\$2,795.00	\$96.00
Accessories (Optional			
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	-
2118.79	Kelvin Clips (1-10A), set of two, 10 ft	\$ 99.00	-
2118.80	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	-

Features

- Measure from 100μΩ $(0.1\mu\Omega \text{ resolution})$ to 2500.0 Ω
- Test current selection of 1mA, 10mA, 100mA, 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
- Internal rechargeable batteries conduct up to 5000 10A tests
- Rugged, double insulated waterproof case
- Includes RS-232 serial cable and AC line cord
- Includes DataView® software for data storage, real-time display, analysis and report generation and user manual



Kelvin clips, set of two, (1-10A) 10 ft Catalog #2118.79 Kelvin clips, set of two, (1-10A) 20 ft Catalog #2118.80



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





DataView® is included with the Model 6250







SPECIFICA	SPECIFICATIONS						
MODEL				6250			
Range	5.0000 m Ω	25.000 m Ω	250.00m $Ω$	2500.0m Ω	25.000Ω	250.00Ω	2500.0Ω
Accuracy	$\begin{array}{c} \text{0.05\% of} \\ \text{Reading} \\ +1\mu\Omega \end{array}$	0.05% of Reading $+ 3\mu\Omega$	0.05% of Reading $+30\mu\Omega$	$\begin{array}{c} \text{0.05\% of} \\ \text{Reading} \\ + \text{0.3m} \Omega \end{array}$	$\begin{array}{c} \text{0.05\% of} \\ \text{Reading} \\ + 3\text{m}\Omega \end{array}$	$\begin{array}{c} \text{0.05\% of} \\ \text{Reading} \\ + \ \text{30m} \Omega \end{array}$	$\begin{array}{c} 0.05\% \text{ of} \\ \text{Reading} \\ + 300\text{m}\Omega \end{array}$
Resolution	0.1μΩ	1μΩ	10μΩ	$0.1 \text{m}\Omega$	1m Ω	10m Ω	100mΩ
Test Current	10A	10A	10A	1A	100mA	10mA	1mA
Measurement Mode	Sele	ctable: Indu		uous test), R to (multiple t		tantaneous	test)
Metal Type Alpha		Selectable: Copper, Aluminum or Other Metal Programmable from 000.00 to 99.99					
Alarms		Two – programmable set points from 0.0 to 2500.0Ω					
Memory	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		Rechargeable 6V, 8.5Ah NiMH battery pack (included)					
Battery Life			Approxim	ately 5000	IOA tests		

CATALOG NO.	DESCRIPTION			
			PRICE	NIST CALIBRATION
2129.81	10A Micro-Ohmmeter Model 6250 (includes one set of 10A Kelvin clips – Catalog #1017.84)	\$:	3,695.00	\$142.00
Accessories (Optional)				
1017.84	Kelvin Clips (10A – Hippo), set of two, 10 ft	\$	199.00	-
2129.95	RTD Temperature Probe (plug into faceplate for ambient temperature)	\$	169.00	-
2129.96	RTD Temperature Probe with 7 ft extension cable	\$	289.00	-
2118.79	Kelvin Clips (1-10A), set of two, 10 ft	\$	99.00	_
2118.80	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	-

Digital Transformer Ratiometer DTR[®] Model 8510



SPECIFICATIONS			
MODEL	DTR® 8510		
VT/PT Ratio Range	Auto-Ranging 0.8000:1 to 8000:1		
CT Ratio Range	Auto-Ranging 0.8000 to 1000.0		
Accuracy*	Ratio <10 to 1: $\pm 0.2\%$ of Reading Ratio 0 to 1000 to 1: $\pm 0.1\%$ of Reading Ratio >1000 to 1: $\pm 0.2\%$ of Reading Ratio 5000 to 8000.0: $\pm 0.50\%$ of Reading		
Excitation Signal	VT/PT Mode: 32Vrms maximum CT Mode: 0 to 1A Auto Level, 0.1 to 5Vrms max.		
Excitation Current Display	Range: 0 to 1000mA; Accuracy: ±2% of Reading ± 2mA		
Excitation Frequency	70Hz		
Measurement Method	In accordance with ANSI/IEEE C57.12.90-2006		
Display	LCD 16 character, 2 line, large format, LED backlight, day/night visible		
Languages Supported	English, Spanish, French, Italian, German, Portuguese		
Communication	Optically isolated USB 2.0		
Data Storage	Stores up to 10,000 complete measurements		
Power Source	Rechargeable 12V NiMH battery (included)		
External Charger	90/240V, 50/60Hz (smart charger)		
Battery Life	Up to 10 hours continuous operation; May not be used while recharging; Low battery LEP/LCD indication		
Charging Time	<4 hours		

 $^{^*23^{\}circ}C \pm 5^{\circ}C$, 50 to 70% RH, full battery charge, no external fields or noise.

- Measures power transformers, VT/PTs and current transformer CT turns ratios
- Displays turn ratio, excitation current, winding polarity and % deviation from the nameplate values
- Universal voltage (90-240V supply, 50-60Hz)
 via external smart/fast battery charger;
 complete charge in less than 4 hours
- Internal NiMH battery packs provide up to 10 hours of continuous operation
- Tests performed by exciting the primary and reading the secondary; provides safer conditions for the operator
- Display warns of incorrect lead connection, reverse polarity, open and short circuits
- Easy connection and test setup; no calibration or balancing required
- Large dual display with adjustable contrast ensures clearer visibility in any lighting environment day or night
- · Low battery indicator
- Includes 15 foot lead set and soft carrying bag
- Stores up to 10,000 test results in internal memory
- USB port facilitates configuring the instrument and downloading test results
- Includes DataView® analysis software for programming, downloading, storing and report generation of test data
- EN 61010-1; 50V CAT IV

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2136.50	Digital Transformer Ratiometer DTR® Model 8510	\$ 2,995.00	\$120.00
Accessories (Optional)		
2136.76	Lead-Set of 2, 30 ft for use with DTR® Models 8500 & 8510	\$ 465.00	-
2136.77	Lead-Replacement set of 2, 15 ft for use with DTR® Models 8500 & 8510	\$ 365.00	-



The Chauvin Arnoux Group is a worldwide company organized into activity-based divisions around its traditional areas of expertise, brands include:



Portable Test & Measurement instruments for electrical and environmental parameters (CHAUVIN ARNOUX, METRIX & MULTIMETRIX brandnames):

Whatever your application, on site or in the laboratory, the Test & Measurement division can provide professional electricians and electronic engineers with hand-held instruments from the Chauvin Arnoux and Metrix brands. Multimetrix® offers an economical product line of clamp-on meters, power supplies and digital multimeters that you can purchase online through the AEMC® Storefront at www.aemc.com



Power Measurement & Control instruments (ENERDIS & RADIO-CONTROLE brandnames) for measurement, metering and supervision of electrical networks:

ENERDIS is an acknowledged expert in energy management. Today, ENERDIS is also a key player in the field of electrical network quality analysis and service. ENERDIS service: Quality (ISO 9001:2009/12).



Thermosensors and temperature measurement, control and supervisory instruments:

Pyro-Contrôle provides temperature measurement, control and calibration solutions for the most demanding process industry requirements, serving industry partners in the chemical, nuclear, metallurgy, glass-making and semiconductor industries. Pyro-Contrôle has implemented a rigorous (ISO 9001:2009/12) certified Quality Assurance system.

The following pages detail some of the products available from the group. The complete line can be seen on the web at www.aemc.com.



PC Oscilloscope Model MTX 162



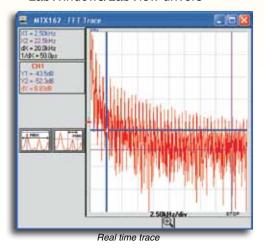


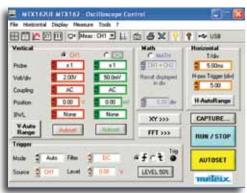




SPECIFICATION	S	
MODEL	MTX 162	
INTERFACE		
Screen Specifications	Color PC screen (min. resolution: 1024 x 768)	
Display Mode	8 x 10 div Multi-windowing (control panel, trace, zoom, FFT, etc.)	
Traces on Screen	4 traces + 4 references	
Screen Control	"Windows-like" & online help – all commands available via mouse	
VERTICAL		
Vertical Sensitivity	5mV to 100V/div	
Bandwidth	60MHz (bandwidth limiter: 15MHz, 1.5MHz or 5kHz)	
Channels	2 channels, class 1, common ground	
HORIZONTAL		
Time Base Speed	32 ranges from 5ns to 100s/div	
TRIGGER		
Mode	Auto, Triggered, One-shot ROLL, auto-level at 50%	
Source	CH1, CH2, Mains	
Туре	Rising or falling edge, adjustable pretriggering from 0 to 100%	
DIGITAL MEMORY		
Max. Sampling Speed	Repetitive = 20GS/s One-shot = 50MS/s	
Vertical Resolution	8 bits	
Memory Capacity	Depth = 50,000 points – storage capacity depends on PC configuration used	
SPO (SMART PERSIST	TENCE OSCILLOSCOPE)	
Duration of Persistence	Analog remanent mode	
MEASUREMENT PROC	CESSING	
FFT Analyzer/ MATH Functions	FFT, +, -, x, /	
Manual Cursors	dv, dt, 1/dt, phase – cursors linked or unlinked to trace	
Automatic Measurements	2 or 19 measurements out of 19 + automatic phase On-any type of curve Markers and limits	
RECORDER MODE		
Duration/Sampling	Dedicated ROLL mode from 2s to 33min	

- 2-channel/60MHz
- · Oscilloscope with FFT and recorder
- Sampling rate 50MS/s in one-shot mode and 20GS/s in ETS mode
- · Detects 10ns transients
- 8-bit A/D converter
- Vertical sensitivities of 250µV-100V/div (300V CAT II)
- Advanced trigger modes and SPO (Smart Persistence Oscilloscope) analysis
- Stackable with direct PC connection via USB or Ethernet
- PC advantages:
 - Large screen with high resolution and multi-windowing
 - Unlimited storage capacity
 - Windows environment (printing, standard files, etc.)
 - Local or remote Ethernet universal communication
 - PC operating software and LabWindows/LabView drivers





Typical PC setup screen

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2150.14	PC Scope Module Model MTX 162UE (2-channel, 60MHz)	\$1,245.00	_
2150.15	PC Scope Module Model MTX 162UEW (2-channel, WiFi, 60MHz)	\$1,595.00	-

Features

- 2 & 4-channel models/150MHz
- · Oscilloscope with FFT, harmonic analyzer and recorder
- Sampling rate 200MS/s in one-shot mode and 100GS/s in ETS mode
- Detects 10ns transients
- 10-bit A/D converter
- Vertical sensitivities of 250µV-100V/div (300V CAT II)
- · Advanced trigger modes and SPO (Smart Persistence Oscilloscope) analysis
- · Stackable with direct PC connection via USB or Ethernet
- PC advantages:
 - Large screen with high resolution and multi-windowing
 - Unlimited storage capacity
 - Windows environment (printing, standard files, etc.)
 - Local or remote Ethernet universal communication
 - PC operating software and LabWindows/LabView drivers



The MTX 1052-PC. MTX 1054-PC and MTX 162 can be connected directly to a PC via a USB or Ethernet interface with PC software. WiFi versions allow wireless Ethernet communication.

PC Oscilloscope Models MTX 1052 & MTX 1054



SPECIFICATION	S
MODELS	MTX 1052 / MTX 1054*
INTERFACE	
Screen Specifications	Color PC screen (min. resolution: 1024 x 768)
Display Mode	8 x 10 div Multi-windowing (control panel, trace, zoom, FFT, etc.)
Traces on Screen	4 traces + 4 references
Screen Control	"Windows-like" & online help – all commands available via mouse
VERTICAL	
Vertical Sensitivity	2.5mV – 100V/div, up to 250µV/div with vertical expansion
Bandwidth	150MHz (bandwidth limiter: 15MHz, 1.5MHz or 5kHz)
Channels	2 or 4 channels, class 1, common ground
HORIZONTAL	
Time Base Speed	35 ranges from 1ns to 200s/div
TRIGGER	
Mode	Auto, Triggered, One-shot ROLL, auto-level at 50%
Source	CH1, CH2, EXT, Mains or CH1 to CH4, Mains*
Туре	Edge, Pulse Width or Delay (40ns - 10.5s), counting (2 - 16,384 events), TV (525 = NTSC, 625 = PAL/SECAM), Pre-trigger adjustable from 0 to 100%, Hold-off (40ns - 10.5s)
DIGITAL MEMORY	
May Campling Coast	D
Max. Sampling Speed	Repetitive = 100GS/s One-shot = 200MS/s
Vertical Resolution	One-shot = 200MS/s 10 bits (9 bits used)
, , ,	One-shot = 200MS/s
Vertical Resolution Memory Capacity	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points - storage capacity depends
Vertical Resolution Memory Capacity	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points – storage capacity depends on PC configuration used
Vertical Resolution Memory Capacity SPO (SMART PERSIS	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points - storage capacity depends on PC configuration used TENCE OSCILLOSCOPE)
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points - storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points - storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance MEASUREMENT PROFFT Analyzer/	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points – storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel CESSING FFT (calculation over 2,048 points), + , - ,
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance MEASUREMENT PROFET Analyzer/ MATH Functions	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points - storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel CESSING FFT (calculation over 2,048 points), + , - , x , / - "Made-to-measure" function editor
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance MEASUREMENT PROFFT Analyzer/ MATH Functions Manual Cursors Automatic	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points – storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel CESSING FFT (calculation over 2,048 points), +, -, x, / - "Made-to-measure" function editor dv, dt, 1/dt, phase – cursors linked or unlinked to trace 2 or 19 measurements out of 19 + automatic phase
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance MEASUREMENT PRO FFT Analyzer/ MATH Functions Manual Cursors Automatic Measurements	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points – storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel CESSING FFT (calculation over 2,048 points), +, -, x, / - "Made-to-measure" function editor dv, dt, 1/dt, phase – cursors linked or unlinked to trace 2 or 19 measurements out of 19 + automatic phase
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance MEASUREMENT PRO FFT Analyzer/ MATH Functions Manual Cursors Automatic Measurements RECORDER MODE	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points – storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel CESSING FFT (calculation over 2,048 points), +, -, x, / - "Made-to-measure" function editor dv, dt, 1/dt, phase – cursors linked or unlinked to trace 2 or 19 measurements out of 19 + automatic phase On-any type of curve Markers and limits Duration: 2s to 31 days / Sampling interval: 40µs to 53.57s
Vertical Resolution Memory Capacity SPO (SMART PERSIS Duration of Persistence Performance MEASUREMENT PRO FFT Analyzer/ MATH Functions Manual Cursors Automatic Measurements RECORDER MODE Duration/Sampling	One-shot = 200MS/s 10 bits (9 bits used) Depth = 50,000 points – storage capacity depends on PC configuration used TENCE OSCILLOSCOPE) 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s and infinite Acquisition rate 50 kwaveforms/s/channel, no. of samples acquired: 19MS/s/channel CESSING FFT (calculation over 2,048 points), +, -, x, / - "Made-to-measure" function editor dv, dt, 1/dt, phase – cursors linked or unlinked to trace 2 or 19 measurements out of 19 + automatic phase On-any type of curve Markers and limits Duration: 2s to 31 days / Sampling interval: 40µs to 53.57s

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2150.10	PC Scope Module Model MTX 1052B-PC (2-channel, 150MHz)	\$1,675.00	_
2150.11	PC Scope Module Model MTX 1052BW-PC (2-channel, WiFi, 150MHz)	\$2,075.00	-
2150.12	PC Scope Module Model MTX 1054B-PC (4-channel, 150MHz)	\$2,375.00	-
2150.13	PC Scope Module Model MTX 1054BW-PC (4-channel, WiFi, 150MHz)	\$2,975.00	-



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Intrinsically Safe Digital Multimeter Model MX 57EX



An intrinsically safe multimeter for use in dangerous or explosive atmospheres

- IECEx
- ATEx







Features

- TRMS measurements
- LCI 07: 0010X
- Safety rating: IEC 61010-1: 2001
- Agency Approval: IECEx LC107.0010 X, LCIE 02 ATEX 6005 X, II 2 G D or II M2, Ex ib I, Ex ib IIC T5 or T4 or T3 \triangle , Ex ibD 21 T \Lambda
- 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

SPECIFICATIONS										
MODEL					MX 57EX II	CEX TRMS				
AC Current	500µA			5mA	INIX O7 EX II	LOEX THING	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%		q ± 30cts	±0.6% of			+0 7º	% of Reading ± 30cts
Protection	600Vrms	50010	20.070	600Vrm			600Vrms	2 00010	600Vrms	
AC Voltage	500mV		5V	00011111	-)V	70011110	500V*		1000V*
Resolution	10µV		100uV			nV		10mV		100mV
Bandwidth	40Hz to 1kHz		1kHz to 4kl	- 17		10kHz	10	kHz to 30kHz		30kHz to 50kHz
Accuracy	±0.3% of Reading ± 30ct	s 1%	of Reading ±			ding ± 30cts		f Reading ± 30cts	. +	±3% of Reading ± 30cts
Imput Impedance	11MO.	170	11MΩ	- 00010	101			10MO.		10MΩ
Protection	1100Vpk		1100Vpk			OVpk		1100Vpk		1100Vpk
DC Current	500uA		11001pi	5mA	110	o v pric	50mA	1100101		500mA
Resolution	10nA			100nA			1uA			10uA
Accuracy	±0.2% of Reading ±	5cts	+0.2%	of Readi		±0.05% (ı + 2cts	+0.2	% of Reading ± 2cts
Protection	600Vrms	0010		600Vrm			600Vrms	1 = 2010	_0	600Vrms
DC Voltage	500mV		5V	0001	-)V		500V*		1000V*
Resolution	10uV		100uV		1r	nV		10mV		100mV
Accuracy	±0.025% of Reading ± 2c	ts +0.02		na + 2cts			+0.025%		ts +	0.2% of Reading ± 2cts
Imput Impedance	11ΜΩ		11MΩ	.g				$10M\Omega$	10ΜΩ	
Protection	1100Vpk		1100Vpk			OVpk	Vpk 1100Vpk			1100Vpk
Resistance	500Ω	5	kΩ		50k Ω	500kg	2	5M Ω		50M Ω
Resolution	10mΩ	100	Ω m Ω		1Ω	10Ω		100Ω		1kΩ
Accuracy	±0.07% of Reading ± 5cts		of Reading 2cts		% of Reading ± 2cts	±0.07% of F ± 2ct		±0.3% of Rea ± 2cts	ding	±1% of Reading ± 2cts
Max Open-Circuit Voltage			7V	-	7V	7V	0	7V		7V
Protection	600V		00V		600V	600V	1	600V		600V
Continuity	0001					20 Ω		0001		0001
Response Time						ns				
Diode Test					0 to					
Test Current						± 20%				
Capacitance					50nF to					
Accuracy					1% of Read					
Frequency						500kHz				
Accuracy		0.03% of Reading ± 2cts								
Temperature										
Range (User selectable in °F or °C)				-3	28° to 1472°F	(-200° to 800°	C)			
Sensor						PT1000	٠,			
Digital Display)-count				
Analog Bargraph				Λι	ne 9V Alkaline I		ed)			
Power Source				0.		gment	,			
Safety Rating		NF EN 50014. EN 50014: 1992: NF EN 50020. EN 50020: 1994								
Agency Approval	Agency Approva	Agency Approval: IECEx LC107.0010 X, LCIE 02 ATEX 6005 X, ExII 2 G D or ExI M2, Ex ib I, Ex ib IIC T5 or T4 or T3, Ex ibD 21 T								
*Operating voltages are limite	0 7 11			,			,/	,		,

*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



- Large graphic LCD display, bilingual menus (English/French)
- New LED backlighting for easier reading in dark areas and lower power consumption
- Four 100,000-count digital displays, bargraph and graphic measurement log
- Basic accuracy 0.02%, specified bandwidth 200kHz
- 8-key "virtual" measurement selector with "one-handed" direct access
- Frequency measurements up to 2MHz, durations, duty cycle, counting of events
- Temperature measurements with Pt 100 or Pt 1000 probes and J or K thermocouples
- Storage of 6500 measurements with date and time (up to 4 simultaneous parameters)
- · USB or Bluetooth communication
- 50% faster battery recharging with wall plug power pack



SPECIFICATIONS						
MODELS	MTX 3281B-COMCM	MTX 3282B-COMCM	MTX 3283B-COMCM			
ELECTRICAL						
Display	Multidirectional graphic LCD (58 x 58mm) - Adjustable contrast - LED backlighting, Graphic resolution 160 x 160 - 100,000-count digital display, Main display + bargraph + (graphic or selection of 3 secondary displays)					
Measurement Connections	3 measurement terminals (V, A, COM) - Automatic detection and selection of Vac+pc or lac+pc					
Controls	Virtual measurement se	lector with 8 "one-handed" direct access keys	- "Favorite function" key			
Languages	Languages (Er	nglish, French) - Configuration menu & browser	- On-line help			
DC, AC and AC+DC Voltages	5 Auto	matic or Manual Ranges from 100.000mV to 10	00.00V			
DC Basic Accuracy	0.1% of Reading + 8cts	0.03% of Reading + 8cts	0.02% of Reading + 8cts			
AC and AC+DC Basic Accuracy	0.7% of Reading + 40cts	0.3% of Reading + 40cts	0.3% of Reading + 40cts			
Specified Bandwidth	DC at 50kHz	DC at 100kHz	DC at 200kHz			
DC, AC and AC+DC Currents	6 Automatic	or Manual Ranges from 1000.00µA to 20.000/	A (max. 30s)			
DC Basic Accuracy	0.08% of Reading + 8cts	0.08% of Reading + 8cts	0.08% of Reading + 8cts			
AC and AC+DC Basic Accuracy	1.0% of Reading + 30cts	0.3% of Reading + 30cts	0.3% of Reading + 30cts			
Specified Bandwidth	DC at 20kHz	DC at 50kHz	DC at 50kHz			
Frequency & Period	7 Automatic or Manual Ranges from 10.0000Hz to 2.0000MHz – Basic Accuracy 0.02% of Reading + 8cts					
Duty Cycle	Rated range 5 to 95 % - Resolution 0.01%					
Positive and Negative Pulses	Counting of up to 99.999 pulses, measurement of duration from 100µs to 12.5s					
Elapsed Time	Graph of events with zoom and measurement cursors: Relative mode (1) or Date/Time					
Resistance & Continuity		natic or Manual Ranges from 1000.00 Ω to 50.0				
Basic Accuracy	0.1% of Reading + 8cts	0.07% of Reading + 8cts	0.07% of Reading + 8cts			
Audible Continuity Detection		Range 1000.00Ω - response time 5ms				
Diode Test		uracy 2% of Reading + 30cts – Measurement C				
Capacitance	Automatic or Manual Ranges from 10.	.00nF to 10.00mF - 1% of Reading + 5cts - Me	easurement Time < 2s (for C < 100µF)			
V Peak > 250µs and Crest Factor	5	Valid for one-off or periodic phenomena	10.000			
Measurement in dBm	Resolution 0.01dBm - Adjustable reference from 1 Ω to 10,000 Ω					
Resistive Power U ² /R or R x I ²	Resolution 100 μ W - Adjustable reference from 1 Ω to 10,000 Ω					
GENERAL						
Communication (depending on model)		USB adapter - Bluetooth wireless link				
EMC/Safety		per NF EN 61326-1, 1998 / IEC 61010, 2001 - (
Power Supply/Battery Life		tteries / approx. 80h (LR6 batteries) or 65h (NiN				
Mains Power Supply		$0V \pm 10\%$, 50-60Hz, 0.3A Full charge time 7 h				
Casing	ABS V0 – Dimensions when closed (H/	ABS VO - Dimensions when closed (H/W/D): 1.73 x 3.35 x 7.09" (44 x 85 x 180mm) - Weight: 400g - Protection rating IP51				

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2125.74	DMM Model MTX 3281B-COMCM (TRMS, 100,000-count, Graphical, Communication)	\$499.00	\$98.00
2125.75	DMM Model MTX 3282B-COMCM (TRMS, 100,000-count, Graphical, Communication, Auto, Auto Peak)	\$599.00	\$98.00
2125.76	DMM Model MTX 3283B-COMCM (TRMS, 100,000-count, Graphical, Communication, Auto, Auto Peak, Rel)	\$699.00	\$98.00
2125.79	DMM Model MTX 3283B-BTCOMCM (TRMS, 100,000-count, Bluetooth, Graphical, Communication, Auto, Auto Peak, Rel)	\$889.00	\$98.00



Tachometers Models CA1725 & CA1727

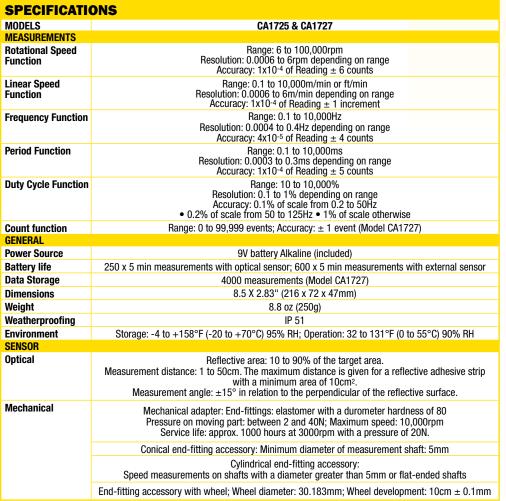




Universal tachometers that you can count on!

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- Measurements up to 100,000 rpm
- Multiple of functions and automatic routines for data acquisition and storage: measurement of rotational speed, linear speed, count, frequency and period
- Extensive programming possibilities
- Digital display with analog bargraph
- USB interface for processing results on a PC (Model CA1727)
- Includes TachoGraph software on CD-ROM (Model CA1727) Download memory only
- Stores up to 4000 measurements results







Each model includes hard case, FRB F connector, 9V battery, a set of 15 reflective strips, user manual, USB cable & TachoGraph software on CD-ROM (CA1727 only), and quick start-up guide.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
1748.10	Tachometer Model CA1725	\$499.00	\$94.00
1748.30	Tachometer Model CA1727	\$599.00	\$94.00
1749.02	Mechanical accessories kit	\$108.80	-

Professional High Performance TRMS Clamp-On Meter

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

One 9V Alkaline battery (included)

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

Models F05, F07 & F09 · Hand-held size, ultra practical and ergonomic





4kHz Bandwidth

Features

3.5 Crest Factor @ 600Arms and 900Vrms

sampling - accurate on non-linear waveforms

Peak function captures 500µs signals

True RMS measurement through fast

- Measure Inrush Current on 0.5, 1, 2.5, 5 and 10 cycles (15 to 70Hz)
- 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 400Ω (model dependent)
- Selectable V-Live[™] function (buzzer) warns of live circuit
- Designed for use with variable frequency drives (F05)
- Battery life displays directly in hours at the push of a button (Models 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 F05, F07 and F09 include test leads, soft carrying case and user manual.

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
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)	\$269.00	\$61.00
2129.50	Clamp-On Meter Model F09 (TRMS, 400Aac/pc, 600Vac/pc, Hz, Power (kW), Phase Rotation, Ohms, Continuity)	\$339.00	\$61.00

Power Source



Multi-Function Installation Tester Model C.A 6116



Features

- Installation testing according to the international standards (IEC 60364-6, NF C 15-100, VDE 100, XP C 16-600, etc.)
- Fast operation and simple access to measurement functions and results
- User-friendly with its large 5.7" backlit graphic screen
- Excellent measurement stability, especially in industrial environments that are affected by disturbances
- · Simple, reliable connections
- Onscreen contextual help for each function
 - Suitable for all types of neutral systems
 - Customized, hierarchical storage of measurement results
 - Safety rating 600V CAT III



Model C.A 6116 includes USB cable, three-pin/line voltage lead, three-pin lead / 3 safety leads, 3 test probes (Ø 4mm), 3 crocodile clips, 2 straight/right angle safety leads (3m), remote-control probe, line voltage power pack, DataView® software, 5 safety connectors wrist strap, 4-point strap for extra comfort, carrying bag and operating manuals (multi-lingual)

SPECIFICATIONS MODEL

MODEL	C.A 6116
TECHNICAL	
Insulation	
Rated Voltage	50/100/250/500/1000Vpc
Range/Resolution/Accuracy	0.01 to $2G\Omega/1k\Omega$ to $1M\Omega/\pm(5\%$ of measurement + 3cts)
Ground Resistance	
Range/Resolution/Accuracy (3-Point Testing)	0.50 to 4k Ω /0.01 Ω to 1 Ω /±(2% of measurement + 2cts)
Others	Auxiliary rod resistance measurement (up to $40k\Omega$)
Installation Voltage/Frequency (with power on)	90 to 550V/15.3 to 17.5Hz - 45 to 65Hz
High-Current Mode with Tripping (1-Point Testing)	Test current: 5A
Range/Resolution/Accuracy	0.10Ω to $3,999\Omega/0.01$ to $1\Omega/\pm(5\%$ of measurement + 2cts)
Mode without Tripping	Test current: 6mA – 9mA – 12mA (by default)
Test Current	6mA – 9mA – 12mA (by default)
Range/Resolution/Accuracy	0.20Ω to $3,999\Omega/0.01$ to $1\Omega/\pm(5\%$ of measurement + 3cts)
1-Point Selective Ground Testing	
Range/Resolution/Accuracy	0.20Ω to $3,999\Omega/0.01$ to $1\Omega/\pm(10\%$ of measurement + 10cts)
RCDs/GFCIs	
Installation Voltage/Frequency	90V to 550V/15.3Hz to 17.5Hz/45Hz to 65Hz
l∆n	10/30/100/300/500/650/1000mA or variable -
	Test in step and pulse modes
No-Trip Test	at ½l∆n – Duration: 1000ms or 2000ms
Tripping Time Measurement	at ½l∆n/2l∆n (selective)/5l∆n
Step Mode	0.3l∆n to 1.06l∆n in steps of 3.3% l∆n
Continuity	
Test Voltage/I Rated	9.5 VDC/I > 200 mA up to 39.99Ω and 12 mA up to 399.9 k Ω with buzzer
Range/Resolution/Accuracy	0Ω to 399.9k Ω /0.01 to 100Ω /±(1.5% of measurement + 2cts)
Loop Impedance (Zi and Zs)	
High-Current Mode with Tripping	Test current: 5A
Range/Resolution/Accuracy	0.1 to $4000\Omega/0.01$ to $1\Omega/\pm(10\%$ of measurement + 5cts)
NO TRIP Mode (Zs only)	Test current: 6mA – 9mA – 12mA (by default)
Range/Resolution/Accuracy	0.2 to $4000\Omega/0.01$ to $1\Omega/\pm(10\%$ of measurement + 5cts)
Calculation of Short-Circuit Current	0.1A to 40kA
Other	Measurement of the resistive and inductive components of the impedances Zs and Zi
Current 5mA to 19.99A (MN77 clamp)/5mA to 19.99A (C177 clamp) 20mA to 200A (C177A clamp). Current measurement from 1mA with MN77 & C177 by connecting voltage on the product	
Voltage	0 to 550Vac/dc
Frequency	DC/15.3 to 500Hz
Active Power	0 to 110kW single-phase - 0 to 330kW three-phase; Simultaneous display of voltage and current waveforms
Harmonics	Voltage and current harmonics/0 to 50th/THD
Phase Rotation	20 to 550Vac
	== == 000

MODEL	C.A 6116
GENERAL	
Display	Large 5.7" backlit graphic screen, 320 x 240 counts
Communication	Via USB for data transfer and report creation
Power Supply	Rechargeable battery
Dimensions & Weight	11.02 x 7.48 x 5.04" (280 x 190 x 128mm) 5.29 lbs (2.4kg)

CATALOG NO.	DESCRIPTION		
		PRICE	NIST CALIBRATION
2138.01	Multi-Function Installation Tester Model C.A 6116	\$2,695.00	-

IEC 61557/IEC 61010, 600V CAT III

Safety Ratings

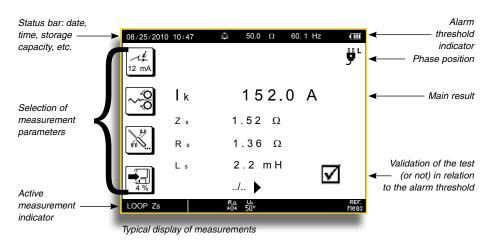
Data View 9

Data Analysis and Reporting Software

DataView® software

Model C.A 6116 Display

The display allows you to view all the essential results at a glance



Measurement Performance

- Continuity
- Insulation
- Grounding resistance
- · 3 ft. grounding resistance
- Grounding resistance measurement with system energized (Ra)
- · Selective grounding resistance measurement with system energized (Ra Sel.)

1-Continuity

Continuity

Continuity

- Line impedance (Zi)
- Loop impedance (Zs)
- Ground fault device test
- · Power & harmonics

Instrument Test Id

Test Designation:

Test type

Configure all installation testing functions of the Model C.A 6116

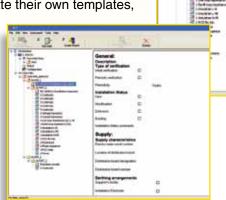
The measurements made with the Model C.A 6116 can also be processed with the DataView® multi-product expert processing software.

DataView® automatically recognizes the instrument when it is connected to the PC and opens the corresponding menu.

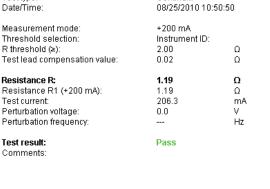
The menu, in tree form, offers users direct access to the data recorded in the instrument, its configuration, etc.

DataView® includes a large number of report templates for quick printing in full compliance with the applicable standards.

Users can also create their own templates, as required.



Production of a report according to the IEC 60364-6 standard



On the left-hand side of the screen. the menu presents the tree structure of the data present in the product and measurement campaigns, clearly identified (customer, location, type of measurements, etc.).

The part displayed as a zoom corresponds to the test carried out. It indicates the result of the main measurement. Whatever the test, the result (in this case, Pass) is displayed clearly.



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Training Seminars

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



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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:

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



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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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If you are experiencing any technical problems, or require any assistance with the proper use or application of any AEMC® instrument, please call our technical hotline at (800) 343-1391.

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To guarantee that your instrument complies with the factory specifications, we recommend that the product be submitted to our factory service center at one year intervals for recalibration, or as required by other standards.

For instrument repairs and/or calibrations, please call our factory, toll-free, at (800) 945-2362.

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15 Faraday Drive • Dover, NH 03820 USA
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Costs for repairs, normal recalibration, and calibration traceable to N.I.S.T. are available. N.I.S.T. calibration pricing is listed within each product ordering chart. All customers must call for an authorization number before returning any instrument.

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