TEST & MEASUREMENT INSTRUMENTS

VOLUME 18

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



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WWW.AEMC.COM

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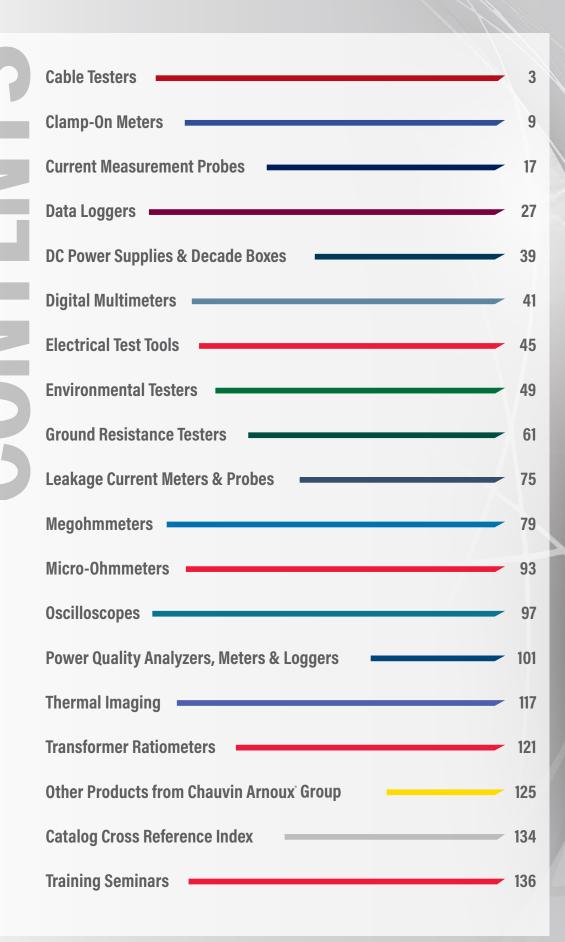






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If you have difficulty locating a North American distributor near you, contact AEMC [®] Instruments or your local AEMC [®] Instruments sales representative or check www.aemc.com for a distributor in your area by clicking on the "Where to Order" tab:					
		AEMC [®] Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118 Technical Hotline: (800) 343-1391 sales@aemc.com • www.aemc.com			
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WHEN ORDERING,	PLEASE USE THE CATALOG	NUMBER AND PRODUCT DESCRIPTION.			
Example:					
QUANTITY	CATALOG #	DESCRIPTION			
1	2141.02	Ground Resistance Tester Model 6417 (Clamp-On) with memory and alarm			
	e list is available. Co nents for an up-to-da	ntact your AEMC [®] Instruments distributor or te copy.			
price or design		ht to discontinue models at any time, or change specifications, vithout incurring any obligation. Please contact us, your local or updates.			
CHAUVIN ARNOUX® D.B.A. AEMC® INST Chauvin Arnoux One So	RUMENTS				
950.CAT-MASTER-Vol1 Printed in the USA Rev.00 10/18	8				

FIND MORE AT: WWW.AEMC.COM





AEMC^{*} Instruments with US and Foxborough, Massachur downtown Boston. As a leg d.b.a. AEMC^{*} Instruments ar in France founded in 1893 ar instrument industry leader. O of experience in test and me the latest international stand AEMC^{*} manufactures profess instruments for the industria Product reliability, excellent assistance are our top priori AEMC^{*} is the worldwide indumeasurement probes and is testers, insulation resistance meters and loggers. Our full meters, ratiometers, power r loggers, thermal imagers, lig micro-ohmmeter and nume Our Megohmmeter line finds Chauvin Arnoux introduced and a decade resistance boo Today, AEMC's megohmmet intelligent features. Timers, standard features. AEMC ha 1000, 5000, 10,000, and 15,000

AEMC[®] Instruments with US operations in Dover, New Hampshire and Foxborough, Massachusetts began operations here in 1976 in downtown Boston. As a legal entity, AEMC is Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments and is affiliated with Chauvin Arnoux SA in France founded in 1893 and today is still a test and measurement instrument industry leader. Our products are backed by over 125 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.

AEMC[®] manufactures professional electrical test and measurement instruments for the industrial, commercial and utility marketplace. Product reliability, excellent customer support and expert technical assistance are our top priority.

AEMC[®] is the worldwide industry leading manufacturer of current measurement probes and is an industry leader in ground resistance testers, insulation resistance testers and power quality and energy meters and loggers. Our full product line also includes clamp-on meters, ratiometers, power meters, harmonic power meters,data loggers, thermal imagers, lightmeters, oscilloscopes, micro-ohmmeters and numerous other electrical test tools.

Our Megohmmeter line finds its roots in the early 1900s when Chauvin Arnoux introduced its first model made from a galvanometer and a decade resistance box combined with a DC power source. Today, AEMC's megohmmeters are digital and incorporate many intelligent features. Timers, alarms and variable test voltages are standard features. AEMC has introduced a unique line of professional 1000, 5000, 10,000, and 15,000 volt megohmmeters with added features, such as: data storage; automated tests and results (internal calculations of DAR, PI, DD and other factors); PC Control; and report compliant software.

Our Ground Tester line finds its roots in the early 1930s. A null balance galvanometer, a decade resistance box and a DC power source combined to make one of the first ground testers on the market. Over 20 years ago, AEMC revolutionized the ground testing market by offering clamp-on ground resistance testers, eliminating the need to disconnect the system to test it and eliminating the need for auxiliary rods to do the test. Several generations of improvements and additional features has strengthened AEMC's position as the industry standard and leader in clamp-on ground resistance testers.

We again led the way in fall-of-potential ground testing with the introduction of an automatic tester in 2006 that automatically locked onto the optimum frequency to test at and calculated all test results for soil resistivity, ground resistance earth coupling and bond resistance, as well as, stored the test data and generated computer reports including fall-of-potential plots. Our latest introduction, a tower test system, again is an innovative design providing the ability to test tower grounding systems without de-energizing them or removing the overhead ground conductor, saving considerable time and money and improving operator safety.

AEMC's line of current probes has long been the standard for Power Quality analysis with the world leaders in power quality instruments standardizing on these probes for their current measurement source. We also manufacture and sell a wide variety of Power and Power Quality measuring instruments ranging from clamp-on meters to single and three-phase power quality analyzers and digital power meters.

AEMC's DataView[®] software designed to configure instruments, run tests, download and store results and generate final reports was added to the product offering in late 1990s. Today DataView[®] is compatible with our Megohmmeters, Ground Resistance Testers, Micro-Ohmmeters, Power Quality Analyzers, Data Loggers and Multi-meters, thus offering the user a standard for interface and control to all its products eliminating the need to learn new software every time. Additionally, tablet and Smartphone Apps based on the Android platform are now available free of charge for our power, ground and clamp-on products.

In addition to its product offering AEMC offers a one day accredited course in ground resistance testing. The Ground Resistance Testing seminar is designed to give the attendee all the information needed to understand proper sizing and testing of grounding systems. Through a combination of classroom instruction and hands-on demonstrations, they will learn the various types of ground resistance tests, the proper application for each test and how to correctly operate the equipment used in conducting these tests. In addition, the student will have all the information to conduct ground resistance testing correctly and efficiently, saving them substantial time and money in the future. Classes on Power Quality were added in 2016.

Sales and marketing are located in Foxborough, MA while production, product service and NIST calibration are located in Dover, NH. AEMC[®] products can be purchased through a worldwide network of distributors who can be found on our website at **www.aemc.com**. We also offer custom products on an OEM basis.

Visit our website at www.aemc.com to get information on our products and services and to get detailed information on attending one of our seminars. AEMC prides itself as your one source for test and measurement instruments and training.





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

CABLE TESTERS CABLE LOCATOR

MODEL 6681

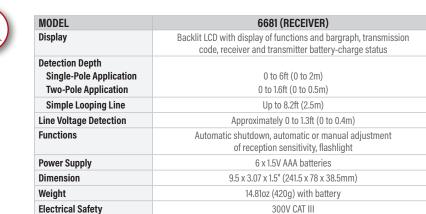
Detects and locates faults in electrical cables, telecommunication cables, live and de-energized conductors buried or in walls

SPECIFICATIONS

Special product features



MODEL	6681 (TRANSMITTER)				
Display	LCD screen with display of functions and bargraph				
Output Signal Frequency	125kHz				
External Voltage Measurement Range	12 to 300VAC/DC				
Functions	Digital coding of signals for easy signal identification, selection of transmission signal code, flashlight				
Power Supply	9V battery				
Dimension	7.48 x 3.5 x 1.67" (190 x 89 x 42.5mm)				
Weight	14.81oz (420g) with battery				
Electrical Safety	300V CAT III				

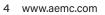








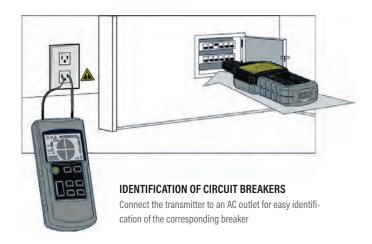
PRODUCT INCLUDES Soft carrying case, set of 2 color-coded (red/black) leads w/4mm banana plugs, set of 2 color-coded alligator clips, adapter-110V outlet w/banana plugs, 1 mini ground rod, 9V battery, 6 AAA batteries and user manual. Image: Description of the set of the set







Detects breakers in radiant heating systems



CATALOG NO.

DESCRIPTION



Cable Locator Model 6681

CABLE TESTERS FAULT MAPPER CABLE LENGTH METER & FAULT LOCATOR ALPHANUMERIC TDR

MODEL CA7024

Finds opens, shorts and cable length

CA7024

12oz (350g)

SPECIFICATIONS

MODEL

Weight

Special product features

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

PRODUCT INCLUDES

Soft carrying case, BNC pigtail cable with alligator clips, four 1.5V AA batteries and user manual.





CE

FEATURES

- 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 6000ft 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
- Compatible with industry standard Tone Receivers
- Works on de-energized conductors

 CATALOG NO.
 DESCRIPTION

 2127.80
 Fault Mapper Model CA7024 (Cable Fault / Length Tester – Alphanumeric TDR)



CABLE TESTERS FAULT MAPPER PRO® TELEPHONE **CABLE TESTER / GRAPHICAL TDR**

MODEL CA7027

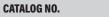
Maps and pinpoints the locations of faults on power and communication cables

SPECIFICATIONS

MODEL	CA7027
MEASUREMENTS	
Range @ Vp = 70%	23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000ft
Range Selection	Manual range control
Accuracy	±1% of range
Resolution	Approximately 1% of selected range
Minimum Cable Length	1.5ft (0.5m)
Sensitivity	Minimum 3 pixel return on a fault at 4km on 0.6mm 0, PE, TP
Velocity of Propagation (Vp)	Adjustable from 1% to 99%
Output Pulse	+5V peak to peak into an open circuit
Output Impedance	Selectable between 25, 50, 75 & 100 $\!\Omega$
Output Pulse Width	3 ns to 3 ms, Automatic with range
Scan Rate	2 scans / second or scan held
Tone Generator	Oscillating tone 810 to 1110Hz
Voltage Protection	250Vac
Power Supply	Four 1.5V AA Alkaline batteries
Battery Life	60 hours continuous scanning
Auto Power OFF	Selectable 1, 2, 3, 5 minutes or disabled
Weight (with battery)	12oz (350g)

PRODUCT INCLUDES

Soft carrying case, set of two color-coded (red/black) leads, test probes, alligator clips, four 1.5V AA batteries and user manual.



DESCRIPTION

2127.84

Fault Mapper Pro* Model CA7027 (Telephone Cable Tester / Graphical TDR)

FEATURES

- 11 range scales indicating cable faults and terminations up to 19,000ft (6000m) in feet or meters
- Unique graphical and digital display of fault information and length

(1)

FAULT MAPPER PRO MODEL CA7027 () AEMC

- Detects opens, shorts, taps, faulty taps, bridge taps, splitters, high resistance, wet cables, splices and more
- Identifies impedance mismatches

Graphical TDR

=78% Z=50

2376

TEST /

- Works with twisted pair, parallel and coaxial cable
- Dead band less than 9ft
- Selectable cable impedance (25Ω, 50Ω, 75Ω, 100Ω)
- Over-voltage protection up to 250V
- Adjustable cursor assists in locating faults and termination
- Built-in tone generator for tracing and locating cables
- Large high-visibility blue electroluminescent backlit display
- Compatible with industry standard Tone Receivers

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	(AEMC	August 100





Special product

features





CABLE TESTERS 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

CA7028

Blue electroluminescent

Green/Red Pass/Fail LED

After three minutes

Main unit: 12oz (350g);

Remote unit: 1.5oz (40g)

SPECIFICATIONS

MODEL

Special product features

MEASUREMENTS				
Range	500ft or 150m (selectable)			
Accuracy	±5% of Reading			
Cable Type	UTP, STP, FTP and SSTP			
Faults Indicated	Short Circuit Pair, Open Circuit Wire, Short Between Pairs,Split/Cross Pairs, Pair Reversals, Shield Continuity			
Fault Location	Near end, remote end, or distance to fault All fault and setting info displayed textually and graphically TIA 568A/B, USOC and ISDN			
Fault Display				
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)			

PRODUCT INCLUDES

Display Backlight

Remote Display

Auto Power OFF

Weight

Soft carrying case, remote ID (#1), two patch cords, four 1.5V AA batteries, remote unit and user manual.



Structured Cable Tester Image: Structured Cable Tester Image: Structured Cable Tester Image: Structured Pair at 36r Image: Structured Pair at

CE 🗆

FEATURES

- Hand-held LAN Cable Mapping and Troubleshooting Tester
- Indicates all common wiring faults including split pairs, shorts, opens, reversed pairs and crossed wires
- Unique graphical and digital display of fault information and length
- Active remote unit indicates Pass/Fail at remote end by green/red LED during the test
- Indicates distances to opens and shorts and identifies location
- Display fault location up to 500ft (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 12oz (350g)
- Large high-visibility blue electroluminescent backlit display
- Complete with remote unit and mini patch leads
- Works with TIA 568A/B, USOC and ISDN wiring schemes
- Compatible with industry standard Tone Receivers

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DESCRIPTION

2127.82

Wire Mapper Pro Model CA7028 (LAN Cable Tester)





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

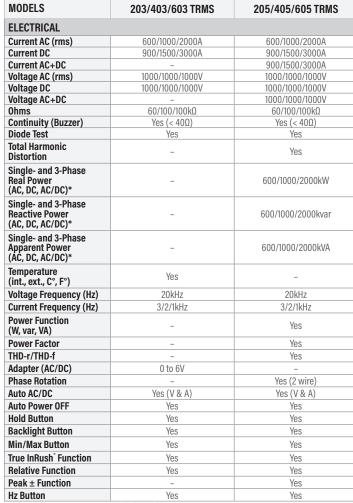
MODELS 203/403/603 & 205/405/605

Users can be sure of working in a higher degree of safety with 1000V CAT IV rated meters (model dependent)



SPECIFICATIONS





*3-phase measurements assume balanced load

DESCRIPTION



*Models 203 & 205 only

FEATURES

- 1000V CAT IV Rated (Models 403/603 & 405/605)
- UL 94 VI flame retardant self-extinguishing
- IP54 Rated
- 10,000-count (400 & 600 Series) and 6000 count (200 Series) blue electroluminescent backlit display
- Measures up to 1000Vac (1400V peak), 1000Vbc and AC+DC with resolution to 10mV
- Measures up to 2000AAC and 3000ADC (model dependent)
- Measures single- and three-phase power (real, reactive and apparent) up to 3MW with resolution to 1W (model dependent)
- Measures W, VA, var and PF for 1 & 3 balanced systems (Models 205, 405 & 605)
- Measures frequency to 20kHz with 0.1Hz resolution
- Auto selects AC or DC measurement voltage
- True InRush[®] current measurement with 1mS capture
- Jaw opening up to 1.33" (34mm) (200 series), 1.89" (48mm) (400 series) and 2.36" (60mm) (600 series)
- K-thermocouple and adapter included (Models 203, 403 & 603)

2139.12	Clamp-On Meter Model 203 (TRMS, 1000Vac/bc, 600Aac/900Abc, Ohms, Continuity, Temperature)
2139.40	Power Clamp-On Meter Model 205 (TRMS, 1000Vac/bc, 600Aac/900Abc, Ohms, Continuity, Phase Rotation, Power, THD)
2139.21	Clamp-On Meter Model 403 (TRMS, 1000Vac/dc, 1000Aac/1500Adc, Ohms, Continuity, Temperature)
2139.50	Power Clamp-On Meter Model 405 (TRMS, 1000Vac/dc, 1000Aac/1500Adc, Phase Rotation, Ohms, Continuity, Power, THD)
2139.31	Clamp-On Meter Model 603 (TRMS, 1000Vac/Dc, 2000Aac/3000ADc, Ohms, Continuity, Temperature)
2139.60	Power Clamp-On Meter Model 605 (TRMS, 1000Vac/bc, 2000Aac/3000Abc, Phase Rotation, Ohms, Continuity, Power, THD)



CATALOG NO.

CLAMP-ON METERS 400 & 600 SERIES BLUETOOTH EDITION **POWER AND HARMONIC METERS**

MODELS 407 & 607

Now available with Android[™] mobile application

SPECIFICATIONS

True InRush



FEATURES

- 1000V CAT IV Rated
- UL 94 VI flame retardant self-extinguishing
- IP54 Rated .
- 10,000-count blue electroluminescent backlit display
- Measures up to 1000VAC (1400V peak), 1000VDC and AC+DC with resolution to 10mV
- Measures up to 2000Aac and 3000Aac (Model 607)
- Measures W, VA, var and PF for 1 & 3 . balanced systems
- Measures single- and three-phase power (real, reactive and apparent) up to 3MW with resolution to 1W
- Measures frequency to 20kHz with 0.1Hz resolution
- Auto selects AC or DC measurement
- True InRush[®] current measurement with 1mS . capture
- · Measures harmonics up to the 25th
- Records up to 1000 measurements .
- Bluetooth communication (communicates up . to 30ft)
- Includes FREE DataView[®] software for download and report generation
- Jaw opening up to 1.89" (48mm) (400 series) and up to 2.36" (60mm) (600 series)

MODELS	407 TRMS	607 TRMS				
ELECTRICAL						
Current AC (rms)	1000A	2000A				
Current DC	1500A	3000A				
Current AC+DC	1500A Peak	3000A Peak				
Voltage AC (rms)	1000V	1000V				
Voltage DC	1000V	1000V				
Voltage AC+DC	1000V	1000V				
Ohms	100kΩ	100kΩ				
Continuity (Buzzer)	Yes (< 40Ω)	Yes (< 40Ω)				
Total Harmonic Distortion	Yes	Yes				
Individual Harmonics (to 25th)	Yes	Yes				
Single- and 3-Phase Real Power (AC, DC, AC/DC)*	1000kW	1000kW				
Single- and 3-Phase Reactive Power (AC, DC, AC/DC)*	1000kvar	2000kvar				
Single- and 3-Phase Apparent Power (AC, DC, AC/DC)*	1000kVA	2000kVA				
Voltage Frequency (Hz)	20kHz	20kHz				
Current Frequency (Hz)	2kHz	1kHz				
Power Function (W, var, VA)	Yes	Yes				
Power Factor	Yes	Yes				
THD-r/THD-f	Yes	Yes				
Auto AC/DC	Yes (V & A)	Yes (V & A)				
Auto Power OFF	Yes	Yes				
Hold Button	Yes	Yes				
Backlight Button	Yes	Yes				
Min/Max Button	Yes	Yes				
True InRush [®] Function	Yes	Yes				
Peak ± Function	Yes	Yes				
Harmonics Function	Yes	Yes				
Rec (Record) Function	Yes	Yes				
Wireless BT (Bluetooth) Function	Yes	Yes				
Record (Recordings)	1000	1000				
Hz Button	Yes	Yes				
3-phase measurements assume balance		103				



PRODUCT INCLUDES

MODELS 407 & 607

Hard carrying case, set of two color-coded silicone test leads, test probes and alligator clips, Bluetooth USB adapter, four 1.5V AA batteries, safety information sheet, and USB drive supplied with DataView[®] software and user manual.

CATALOG NO.

DESCRIPTION

2139.61

2139.51

Power Clamp-On Meter Model 407 (TRMS, 1000Vac/Dc, 1000Aac/1500ADc, Ohms, Continuity, Energy, Harmonics, Power, THD, Recording) Power Clamp-On Meter Model 607 (TRMS, 1000Vac/dc, 2000Aac/3000Adc, Ohms, Continuity, Energy, Harmonics, Power, THD, Recording)



Special product features







CLAMP-ON METERS 670 SERIES



MODELS 670 & 675

Dual display simultaneously measures and displays voltage and current!

MODEL 670

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



AEMC MODEL 675

MODEL 675

Jaw Opening: 1.58" (40mm)





SPECIFICATIONS

Special product features



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MODELS	670 TRMS				675 TRMS				
ELECTRICAL		0/0 11	11113		0/016/00				
AC Current									
Measuring Range	0.00 to 99.9	0.4	10	00 to 1000A	0.00 to 99.99A 100 to 1000A				
Resolution	0.00 to 99.9	9A	10	0.1A	0.00 to 99.9	ISA	0.1A		
Accuracy		Dooding (0.1A 0 to 60Hz)		f Reading ±5	oto (E			
) to 500Hz)		Reading ± 50			
) to 500HZ))Hz to 3kHz)		Reading ±50 Reading ±5ct			
DC Current	±4.5% 01 He	eading ±5	CIS (500	JHZ LO 3KHZ)	±4.5% 01 F	reading ±50	.5 (500	JHZ LO 3KHZ)	
Measuring Range					0.00 to 99.99A	100.0 to 99	0.04	1000 to 14004	
Resolution		-			0.00 to 99.99A	0.1A	19.9A	1000 to 1400A	
Accuracy		-							
Accuracy		-			±1.2% of	±2.5%		±2.5% of	
					Reading ±5cts	Reading ±	SCIS	Reading ±5cts	
AC Voltage					1				
Measuring Range		0.0 to 9				0.0 to 999	9.9V		
Resolution		0.1				0.1V			
Accuracy		0		0 to 60Hz)		f Reading ±5			
) to 500Hz)		$\pm 1.2\%$ of Reading ± 5 cts (60 to 500Hz)			
	±2.5% of Reading ±5c)Hz to 3kHz)	±2.5% of Reading ±5cts (500Hz to 3kHz)				
Input Resistance	1ΜΩ					1MΩ			
DC Voltage									
Measuring Range	0.0 to 999.9	9V	1000 to 1400V		0.0 to 999.9V		10	1000 to 1400V	
Resolution	0.1V		1V		0.1V 1V				
Accuracy	±1		iding ±2cts		±1% of Reading ±2cts				
Input Resistance	1ΜΩ				1MΩ				
Resistance-Ohms (Ω)					1				
Measuring Range	0.0 to 999.9	Ω	1000 to 9999Ω		0.0 to 999.	9Ω	10	00 to 9999Ω	
Resolution	0.1Ω		1Ω ng ±3cts, 3.3Vpc (Vmax)		0.1Ω			1Ω	
Accuracy	±1% of Re	eading ±30	cts, 3.3\	/bc (Vmax)	±1% of H	leading ±3ct	s, 3.3\	/bc (Vmax)	
Continuity (🌖			- 0		1	0.50			
Beeper Activation Accuracy	10/ (D	< 35			. 10/ 60	< 350			
-	±1% of Re	eading ±30	cts, 3.3V	/bc (Vmax)	±1% OT H	leading ±3ct	s, 3.31	/bc (Vmax)	
Frequency (Hz) Function	A 11-			N/ 11-	A - Hz			V - Hz	
Range	A - Hz 1000Hz		V - Hz 10.000Hz		1000Hz		10.000Hz		
Resolution	0.1Hz		IU,UUUHZ 1Hz		0.1Hz			10,000HZ 1Hz	
Accuracy		10% of Rea	eading ±2cts		±1.0% of Reading ±2cts				
Temperature (°C/°F)		1070011100			-	1.070 011100001	ng ±zc	10	
Measuring Range	-40° to 999.5°C	1000° to 1	1200°C	-40° to 2192°F	-40° to 999.5°C	1000° to 120	0°C	-40° to 2192°F	
Resolution	0.5°C	1°C		1ºF	0.5°C	1°C		1ºF	
GENERAL	010 0	10			010 0	10			
Power Supply			0no 0\/	NEDA 1604 (6E22) Alkaling battory ((included)			
Battery Life	(no buzzer or backlight) 35 hours				2) Alkaline battery (included) (no buzzer or backlight) 30 hours				
MECHANICAL	(110 DUZ		kiigiit) a	JJ 110013	(110 Du		igiit) s	00110013	
Digital Display	2.3/ digita LCD dual diaplay (as any			(reading 0000)	2.3/ digita LCD dual diaplay (may reading 0000)			(reading 0000)	
Jaw Opening	3 ¾ digits LCD dual display (max reading 999) 1.65" (42mm)			(Teauling 9999)	3 ³ / ₄ digits LCD dual display (max reading 9999)				
		1.00 (4	∠11111)		1.58" (40mm)				
ENVIRONMENTAL		0005 (50		000/ DI:		1000E (000/ DV	
Operating Temperature	*-14° to 1), 80% RH,	*-14° to 122°F (-25 to 50°C), 80% RH,), 80% KH,	
		non-cond	tensing			non-condensing			

FEATURES

- 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 10,000Ω
- 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 10,000count, backlit LCD display
- Includes test leads and soft carrying case

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



PRODUCT INCLUDES

Soft carrying case, set of test leads (red/black with safety needle tips), K-type thermocouple, one 9V battery and a user manual.

CATALOG NO. DESCRIPTION

2117.49 Clamp-On Meter Model 670 (Dual Display, TRMS, AC Amps, AC/DC Volts, Ohms, Continuity, Frequency, & Temperature) 2117.50 Clamp-On Meter Model 675 (Dual Display, TRMS, AC/DC Amps & Volts, Ohms, Continuity, Frequency & Temperature)







FEATURES

- Compact size fits into your pocket
- 400AAc or 400AAc/Dc current measurements
- 600VAC/DC volts measurements
- Resistance measurements to 400Ω
- Continuity with beeper below 40Ω
- Hold function to "freeze" readings
- Push-button for easy ADC zeroing
- Large, easy-to-read 4000-count LCD display
- 42-segment analog bargraph
- Includes test leads and soft carrying pouch



MODEL 503 Jaw Opening: 1.1" (28mm) Conductor Size: one 500kcmil cable Small compact size clamp-meter that fits comfortably in a tool bag

CLAMP-ON METERS

SPECIFICATIONS

MODEL	503
AC Current (Auto-Ranging)	0.05 to 400A
Resolution	0.01A and 0.1A
Accuracy 50 to 60Hz 60 to 500Hz	±1.5% of Reading ±10cts ±2.5% of Reading ±10cts
AC Voltage (Auto-Ranging)	0.5 to 600V
Resolution	0.1V and 1V
Accuracy 50 to 60Hz 60 to 500Hz	±0.8% of Reading ±5cts ±1.5% of Reading ±5cts
Input Impedance	10ΜΩ
DC Current (Auto-Ranging)	0.10 to 400A
Resolution	0.01A and 0.1A
Accuracy	±2.5% of Reading ±10cts
DC Voltage (Auto-Ranging)	0.2 to 600V
Resolution	0.1V and 1V
Accuracy	±1% of Reading ±2cts
Input Impedance	10ΜΩ
Resistance	0.2 to 400Ω
Accuracy	±1% of Reading ±2cts
Max Test Voltage	1.5VDC
Continuity	<40Ω
Max Test Voltage	1.5VDC
Power Source	Two 1.5V AAA batteries (included)

PRODUCT INCLUDES

Soft carrying case, set of two test leads, two 1.5V AAA batteries and user manual.

DESCRIPTION

2117.22

CATALOG NO.

Clamp-On Meter Model 503 (AC/DC, 400Aac/Dc, 600Vac/Dc, Ohms, Continuity)



Technical Assistance (800) 343-1391

MODEL 503

500 SERIES

Special product features







CLAMP-ON METERS 500 SERIES

MODELS 512 & 514

Full ranges and compliance to international safety and quality standards ensure a professional and reliable tool

SPECIFICATIONS

Special product features



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(<	510-		54	
	-)		-)	



MODELS		512 TRMS	514 TRMS
AC Current (Auto-Rar	nging)	0.05 to 1000Arms	0.05 to 1000Arms
Resolution		0.01A, 0.1A and 1A	0.01A, 0.1A and 1A
Accuracy 5	0 to 60Hz	±1.9% of Reading ±5cts	±1.9% of Reading ±5cts
60	to 500Hz	±1.9% of Reading ±5cts	±2.5% of Reading ±5cts
AC Voltage (Auto-Rai	nging)	0.5 to 750Vrms	0.5 to 750Vrms
Resolution		0.1V and 1V	0.1V and 1Vrms
Accuracy 60	to 500Hz	±1.2% of Reading ±5cts	±1.5% of Reading ±5cts
Input Impedance		10ΜΩ	10ΜΩ
DC Current (Auto-Rai	nging)	-	1A to 1000A
Resolution		_	0.01A, 0.1A and 1A
Accuracy		-	±2.5% of Reading ±10cts
DC Voltage (Auto-Rai	nging)	0.2 to 1000V	0.2 to 1000V
Resolution		0.1V and 1V	0.1V and 1Vrms
Accuracy		±0.75% of Reading ±2cts	±1% of Reading ±2cts
Input Impedance		10ΜΩ	10ΜΩ
Resistance		0.2 to 4000Ω	0.2 to 4000Ω
Accuracy		±1% of Reading ±2cts	±1% of Reading ±2cts
Max Test Voltage		3Vdc	3VDC
Diode Test		0.6mA	1.7mA
Open Circuit Voltag	je	3Vdc	3Vpc
Continuity		<40Ω	<40Ω
Max Test Voltage		3Vdc	3Vpc
Frequency (Auto-Rar	nging)		
CURRENT INPUT			
Range	4kHz	1Hz Resolution	1Hz Resolution
•	10kHz	-	10Hz Resolution
Accuracy 20Hz	z to 10kHz	±0.1% of Reading ±1ct	±0.1% of Reading ±1ct
Min Input Signal	4kHz	2Arms	2Arms
	10kHz	_	5Arms
VOLTAGE INPUT			
Range	4kHz	1Hz Resolution	1Hz Resolution
Min Input Signal DLTAGE INPUT Range	10kHz	10Hz Resolution	10Hz Resolution
Accuracy 10Hz	z to 10kHz	±0.1% of Reading ±1ct	±0.1% of Reading ±1ct
Min Input Signal	4kHz	5Vrms	5Vrms
1	10kHz	5Vrms	10Vrms
Power Source			tery (included)
ENVIRONMENTAL		et radanto but	
Operating Temperatu	Ire	32° to 104°F (0° to 40°C)	*-14° to 122°F (-25° to 50°C),
		< 80% RH, non-condensing	80% RH, non-condensing

PRODUCT INCLUDES

Soft carrying case, set of two test leads, 9V battery and user manual.



*Note: If Model 514 is to be used below 32°F (0°C), we suggest that the battery be replaced to ensure proper results.

CATALOG NO.	DESCRIPTION	
2117.68	Clamp-On Meter Model 512 (TRMS, 1000Aac, 750Vac/1000Vbc, Ohms, Continuity, Hz)	
2117.70	Clamp-On Meter Model 514 (AC/DC, TRMS, 1000Aac/dc, 750Vac/1000Vdc, Ohms, Continuity, Hz)	



MODELS 512 & 514 Jaw Opening: 1.575" (40mm) Conductor Size: one 750kcmil cable or two 350kcmil cables





FEATURES

- Standard size, full function clamp-on meter
- 1000AAC or 1000AAC/DC current measurements
- 750VAC or 1000VDC volt measurements
- TRMS measurements
- 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 LCD display
- 42-segment analog bargraph
- Includes test leads, soft carrying pouch and batteries

CLAMP-ON METERS 100Aac/dc LOW CURRENT

MODEL CM605

ImA Resolution

For general industrial monitoring and troubleshooting

FEATURES

- 10,000-count LCD display excellent resolution
- 100AAC/DC Ammeter with low 10A range (1mA resolution)
- Tapered jaws for crowded wiring areas
 Jaw opening:
 Ø 0.60"- 15mm
 Cable diameter:
 Ø 0.45"- 12mm
- 600VAC/DC voltmeter
- Analog output in AAC/DC to data loggers, etc
- Auto-ranging & ADC zero
 push-button
- Data HOLD & PEAK functions
- Relative function to compare
 two measurements
- Ohm range & continuity test with beeper
- Auto Power OFF and low battery indicator
- IEC/EN 61010 safety rated & CE mark
- 600Vrms overload protection



SPECIFICATIONS

MODEL	CM605
ELECTRICAL	
AC Current	
Measurement Ranges	2 Ranges: 10A, 100A
Accuracy & Resolution	10A: ±2.0% of Reading ±10cts - 1mA Resolution 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: $\pm 2.5\%$ of Reading ± 10 cts - 1mA Resolution 80A: $\pm 2.5\%$ of Reading ± 10 cts - 10mA Resolution > 80A: $\pm 4.5\%$ of Reading ± 10 cts - 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	$\pm 1.0\%$ of Reading ± 3 cts - 1 Ω 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 & Apc through front banana jacks
Frequency	0 to 20kHz @ ±3db
Output Impedance	3kΩ, < 50pF
Other Functions	· ·
Adc Zero & Relative Function	One touch push button (Δ ZERO Button) to Zero ADC, 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 Power OFF	Auto Power OFF after approx 10 minute with Over-Ride
Low Battery	Low Battery indication on LCD
MECHANICAL	
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) – 6.5oz (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

*For negative measurement, add 2cts to the accuracy

PRODUCT INCLUDES

Soft carrying case, set of two test leads, two 1.5V AAA batteries and user manual.

CATALOG NO.

DESCRIPTION

Clamp-On Meter Model CM605 (100AAC/DC, Low Current)

Technical Assistance (800) 343-1391



CLAMP-ON METERS SELECTION GUIDE

MODELS	CATALOG NUMBER	ТҮРЕ	AC CURRENT	AC Voltage	DC Current	DC VOLTAGE	RESISTANCE (Ω)	CONTINUITY	FREQL (H CURRENT		JAW SIZE	DIMENSIONS
203	2139.12	AC/DC TRMS	600A	1000V	900A	1000V	60kΩ	<40Ω	3kHz	20kHz	1.33" (34mm)	8.7 x 3.1 x 1.65"
205	2139.40	AC/DC TRMS	600A	1000V	900A	1000V	60kΩ	<40Ω	3kHz	20kHz	1.33" (34mm)	8.7 x 3.1 x 1.65"
403	2139.21	AC/DC TRMS	1000A	1000V	1500A	1000V	100kΩ	<40Ω	2kHz	20kHz	1.89" (48mm)	10.7 x 3.6 x 1.6"
405	2139.50	AC/DC TRMS	1000A	1000V	1500A	1000V	100kΩ	<40Ω	2kHz	20kHz	1.89" (48mm)	10.7 x 3.6 x 1.6"
407	2139.51	AC/DC TRMS	1000A	1000V	1500A	1000V	100kΩ	<40Ω	2kHz	20kHz	1.89" (48mm)	10.7 x 3.6 x 1.6"
603	2139.31	AC/DC TRMS	2000A	1000V	3000A	1000V	100kΩ	<40Ω	1kHz	20kHz	2.36" (60mm)	11.65 x 4.37 x 1.61"
605	2139.60	AC/DC TRMS	2000A	1000V	3000A	1000V	100kΩ	<40Ω	1kHz	20kHz	2.36" (60mm)	11.65 x 4.37 x 1.61"
607	2139.61	AC/DC TRMS	2000A	1000V	3000A	1000V	100kΩ	<40Ω	1kHz	20kHz	2.36" (60mm)	11.65 x 4.37 x 1.61"
400D	2153.30 2153.31	AC	0.020 to 400A	_	_	_	_	_	10Hz to 3kHz	_	400D-6: 1.77" (45mm) 400D-10: 2.75" (70mm)	3.94 x 2.36 x 0.79"
4000D	2153.32 2153.35	AC	0.20 to 400A	_	_	_	_	_	10Hz to 3kHz	_	4000D-14:3.94" (100mm) 4000D-24: 8" (190mm)	3.94 x 2.36 x 0.79"
503	2117.22	AC/DC	0.05 to 400A	0.5 to 600V	0.10 to 400A	0.2 to 600V	400Ω	<40Ω	_	_	1.1" (28mm)	7.60 x 1.97 x 1.1"
512	2117.68	AC TRMS	0.05 to 1000A	0.5 to 750V	_	0.2 to 1000V	4000Ω	<40Ω	20kHz to 10kHz	10Hz to 10kHz	1.58" (40mm)	9.53 x 2.60 x 1.42"
514	2117.70	AC/DC TRMS	0.05 to 1000A	0.5 to 750V	1 to 1000A	0.2 to 1000V	4000Ω	<40Ω	20kHz to 10kHz	10Hz to 10kH	1.58" (40mm)	9.53 x 2.60 x 1.42"
565	2117.56	AC TRMS	0 to 600mA; 10 to 100A	0 to 600V	_	0 to 600V	0 to 1kΩ	0 to 1kΩ	0 to 1kHz	0 to 1kHz	1.1" (28mm)	8.5 x 2.5 x 1.18″
CM605	7000.02	AC/DC	1mA to 100A	600Vrms	1mA to 100A	600V	0 to 9999Ω	$\begin{array}{c} Buzzer \\ <100\Omega \pm 25\Omega \end{array}$	50 to 500Hz	40 to 500Hz	0.60" (15mm)	7.95 x 2.76 x 1.33"
670	2117.49	AC TRMS	0 to 1000A	0 to 1000V	_	1000 to 1400V	1000 to 10,000Ω	<35Ω	1000Hz	10,000Hz	1.65" (42mm)	10.71 x 3.15 x 1.69"
675	2117.50	AC/DC TRMS	0 to 1000A	0 to 1000V	0 to 1400A	0 to 1400V	0 to 9999Ω	<35Ω	1000Hz	10,000Hz	1.58" (40mm)	10.12 x 3.15 x 1.69"





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

CURRENT MEASUREMENT PROBES SELECTION FOR GENERAL PURPOSE & **OSCILLOSCOPE/BNC TERMINATED PROBES**

MINIFLEX' SERIES

- Measures from 0.5 to 3000Arms
- Accuracy \pm 1% of Reading \pm from 0.2 to 0.25A
- TRMS measurements when connected to a TRMS instrument
- No core saturation or damage if overloaded
- Low phase shift for power measurements .
- Measures only AC
- High frequency models available for oscilloscopes
- Excellent linearity

SL SERIES AC/DC CURRENT PROBES

- Low AC and DC measurements
- 50mA to 100A peak
- 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

FLEXIBLE CURRENT PROBES

- 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

JM SERIES AC CURRENT PROBES

- Current range: up to 3000AAC н. (continuous cycle for the full temperature range)
- Output: 1mA/A voltage or V/A voltage
- Designed for use on DMMs, power and harmonic meters, recorders of instruments with AC current ranges

SR SERIES CURRENT PROBES

- Measurement range of 100mA 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
- UL approved

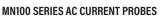
Note: Product image size not proportionate. Not all models are CE and UL approved; please consult factory.



- 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
- No range or mode (AC/DC) switching required

MN01 TO MN05 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



- 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

MN200 & MN300 SERIES AC CURRENT PROBES

- Small, compact size
- Measurement range of 5mA to 240AAC
- Jaw opening accommodates conductors up to 250kcmil
- 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
- UL approved

CE

CE

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 500kcmil
- Works as a traditional current transformer with ratio of 1000:1
- AC/DC outputs available











CE















CURRENT MEASUREMENT PROBES AC/DC CURRENT PROBES & DC/AC MICROPROBES

MODELS K100 & K110

Model K100

Very small and compact, our microprobes are designed for accurate measurements of very low currents with 50µAdc sensitivity

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

SPECIFICATIONS

MODELS	K100	K110				
Current Range	0 to ±4.5ADC 0 to 3Arms	0 to ±450mADC 0 to 300mArms				
Output (Vout)	1mV/mA	10mV/mA				
Resolution	DC: 50µA typical, AC: 100µA typical	DC: 50µA typical, AC: 100µA typical				
Accuracy	DC: ±1% of Reading ±200µA, AC: ±2% of Reading, ±200µA	DC: $\pm 0.5\%$ of Reading $\pm 150\mu$ A, AC: $\pm 0.8\%$ of Reading, $\pm 200\mu$ A				
Output Noise	<100µV, DC to 3kHz	<100µV, DC to 3kHz				
Frequency Response	DC to 2kHz (@ -3dB sine)	DC to 1.5kHz (@ -3dB sine)				
Power Source	One 9V Alkaline battery (included)					
Battery Life	20 h	ours				



CATALOG NO.

DESCRIPTION

1200.67 2111.73 DC/AC MicroProbe Model K100 (4.5A, 1mV/mA) DC/AC MicroProbe Model K110 (450mA, 10mV/mA)



CURRENT MEASUREMENT PROBES GENERAL PURPOSE PROBES SELECTION CHART

GENERAL PURPOSE PROBES

SERIES	MODEL	RATIO	MEASUREM	ENT RANGE	OUTPUT	SIGNAL	PHASE	MAXI CONDUC	MUM Tor size	OUTPUT	CATALOG	
			AC	DC	CURRENT	VOLTAGE	SHIFT**	Ø CABLE	BUS BAR	CONNECTION	NO.	
	MN01	-	2 to 150A	-	1mAac/Aac*	-	N/A	0.39" (10mm)	N/A	Lead	2129.17	
	MN02	1000:1	50mA to 100A 50mA to 90A	-	1mA/A*	-	N/A	0.39" (10mm)	N/A	Lead	2129.20	
1	MN03	-	2 to 100A	-	-	1mV/A	N/A	0.39" (10mm)		Lead	2129.18	
	MN05	-	5mAac to 10Aac 1 to 100Aac	-	-	1mVac/mAac 1mVac/Aac	N/A	0.39" (10mm)		Lead	2129.19	
	MN103	-	1mA to 10A 1 to 100A	-	-	1mVac/mAac 1mVac/Aac	N/A		N/A	Lead	1031.02	
	MN106	1000:1	2 to 150A	-	1mAac/Aac	-	<10°	0.47"	N/A	Lead	1031.17	
NO	MN114	-	1mA to 10A	_	-	100mVac/Aac	<8°	(12mm)		Lead	2110.71	
	MN185	1000:1	50mA to 120A	-	1mAac/Aac	-	<3.5°			Jack	100.185	
	MN213	1000:1	0.5 to 240A	-	1mAac/Aac*	-	<2.5°			Lead	2115.75	
	MN251	-	0.5 to 240A	-	-	1mVac/Aac	<2.5°				Lead	2115.77
	MN253	-	0.5 to 240A	-	-	10mVac/Aac	<2.5°			Lead	2115.79	
	MN255	-	0.1 to 24A 0.1 to 240A	-	-	100mVac/Aac 10mVac/Aac	<2.5°			Lead	2115.81	
	MN291	-	0.5 to 240A	-	-	100mVdc/Aac	N/A		N/A	Lead	2115.84	
	MN307	-	10mA to 12A	-	-	100mV/Aac	<2.5°			Lead	2116.23	
	MN312	1000:1	0.1 to 200A	-	1mAac/Aac*	-	<2.5°	0.78" (19.8mm)		Jack	2116.24	
O	MN313	1000:1	0.1 to 200A	_	1mAac/Aac*	-	<2.5°			Lead	2116.25	
	MN352	-	0.1 to 150A	-	-	10mV/Aac	<2.5°			Jack	2116.26	
	MN353	-	0.1 to 150A	-	-	10mV/Aac	<2.5°			Lead	2116.27	
	MN373	-	0.01 to 2.4A 0.1 to 200A	_	-	1000mV/Aac 10mV/Aac	<3°			Lead	2116.28	
	MN375	-	0.1 to 10A	-	-	100mV/Aac	<1.5°			Lead	2115.41	
	MN379	-	0.005 to 6A 0.1 to 120A	_	-	200mV/Aac 10mV/Aac	<1.5°			Lead	2153.01	
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	
Q	MD301	1000:1	2 to 500A	-	-	1mVDC/Aac	N/A			Lead	1201.07	
6	MD305	1000:1	1 to 600A	_	1mAac/Aac	-	<1°	1.18" (30mm) 2 x 500kcmil	2.48 x 0.20" (63 x 5mm)	Lead	1201.36	

*Diode Protection for open secondary (Output)

**Phase shift indicated at maximum rating

***Consult factory for NIST Calibration price

Note: Models MN103, MN106, MN114 & MN185 are not CE compliant. MN200 & MN300 series probes are UL approved.



The most complete line of current probes offering a variety of output options and terminations for recorders, data loggers, oscilloscopes, DMMs and other instruments

SERIES	MODEL	RATIO	MEASUREM	ENT RANGE	OUTPUT	SIGNAL	PHASE		MUM Tor size	OUTPUT CONNECTION	CATALOG NO.
olineo			AC	DC	CURRENT	VOLTAGE	SHIFT**	Ø CABLE	BUS BAR		
	SR600	1000:1	0.1 to 1000A	-	1mAac/Aac	-	<0.5°			Jack	2113.42
	SR601	1000:1	0.1 to 1000A	-	1mAac/Aac*	-	<0.5°		Jack	2113.43	
	SR604	1000:1	0.1 to 1000A	-	1mAac/Aac*	-	<0.5°			Lead	2113.44
K	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
	SR651	-	0.1 to 1000A	-	-	1mVac/Aac	<0.5°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Jack	2113.45
6	SR701	1000:1	1mA to 1000A	-	1mAac/Aac*	-	<0.5°			Jack	2116.29
	SR704	1000:1	1mA to 1000A	-	1mAac/Aac*	-	<0.5°			Lead	2116.30
	SR752	-	100mA to 1000A	-	-	1mVac/Aac	<0.7°		Lead	2116.32	
	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
	JM810A	2000:2	1 to 2000A	-	1mAac/Aac	-	<0.5°			Lead	2110.80
	JM813	3000:3	1 to 2400A	-	1mAac/Aac	-	<0.5°		1.97 x 5.31"	Jack	2110.93
for	JM830A	3000:1	1 to 2400A	-	.333mAac/Aac	-	<0.5°	2.52" (64mm)	(50 x 135mm) 2.52 x 3.94" (64 x 100mm)	Lead	2110.83
6	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°		(04 X 10011111)	Jack	2110.88

*Diode Protection for open secondary (Output)

**Phase shift indicated at maximum rating

***Consult factory for NIST Calibration price

OUTPUT TERMINATORS

LEAD WITH BNC

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



JACK

Two standard safety banana jacks (4mm)



LEADS

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



SHROUDED BANANA PLUGS

Note: SR series probes are UL approved

Two 4mm safety banana plugs; standard ¾" (19mm) spacing





CURRENT MEASUREMENT PROBES FLEXIBLE CURRENT PROBES

HIGH FREQUENCY OSCILLOSCOPE COMPATIBLE MINIFLEX° PROBES

A compact AC current measurement device composed of a flexible sensor and an electronic module designed to measure frequency response up to 1MHz



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

SPECIFICATIONS

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 1MH	z @ -3db				
Influence of Conductor Positioning	1.5% typic:	al, 3% max				
Influence of Conductor Positioning in Sensor Against Handle	4% typical, 6% max					
External Conductor Influence	35dB to 40d	B on contact				
Power Source	9V Alkaline ba	attery (6LF22)				
MECHANICAL						
Sensor Diameter	Ø 0.2" (5mm)					
Sensor Length	6" (152mm)	10" (250mm)				
Max Conductor Size	1.77" (45mm)	2.95" (70mm)				
Connection Cable Length	6.5ft	(2m)				
Drop Test	Per IEC	68-2-32				
Vibration	Per IEC	68-2-6				
Mechanical Shock	Per IEC	68-2-27				
Weatherproofing	IP	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 6562ft (0 to 2000m), working voltage derating above; Non-operating: 0 to 39,000ft (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)



FEATURES

- Measures from 0.5 to 300Arms
- Accuracy ±1% of Reading ±0.2A
- TRMS measurements when connected to a TRMS instrument
- No core saturation or damage if overloaded
- 9V battery for typical 150 hours 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

CATALOG NO.	DESCRIPTION	
2126.83	MiniFlex [®] Model MF 300-6-2-10-HF	
2126.84	MiniFlex [®] Model MF 300-10-2-10-HF	



Special product

features







CURRENT MEASUREMENT PROBES FLEXIBLE CURRENT PROBES

MINIFLEX' FLEXIBLE CURRENT PROBES FOR GENERAL USE

A flexible sensor equipped with banana or BNC connector that can be connected directly to any multimeter, wattmeter or logger for effective measurements at the standard frequencies

SPECIFICATIONS

MODELS

Range

ELECTRICAL

Signal Output

Positioning

Power Source

MECHANICAL

Sensor Length

Drop Test

Vibration

Altitude

SAFETY Safety Rating

Sensor Diameter

Max Conductor Size

Mechanical Shock

ENVIRONMENTAL

Connection Cable Length

Operating Temperature Range

Storage Temperature Range

Frequency Range

Influence of Conductor

Influence of Conductor

External Conductor Influence

Positioning in Sensor Against Handle





MF 300-6-2-10

30/300A

100mV/10mV/A

6" (152mm)

1.77" (45mm)

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



FEATURES

- Measures from 0.5 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

Special product features

MF 3000-10-2-1

300/3000A

10mV/1mV/A

10" (250mm)

2.95" (74.9mm)

10 to 20kHz with current derating

1.5% typical, 3% max

4% typical, 5% max

35dB to 40dB on contact

9V Alkaline battery (included)

Ø 0.2" (5mm) - vs 0.5" (12.5mm) for AmpFlex®

6.5ft (2m)

Per IEC 68-2-32

Per IEC 68-2-6

Per IEC 68-2-27

14° to 131°F (10° to 55°C)

-40° to 158°F (-40° to 70°C)

Operating: 0 to 6562ft (0 to 2000m), working voltage

derating above; Non-operating: 0 to 39,000 (0 to 12,000m)

EN 61010, 1000V CAT III; 600V CAT IV; Pollution Degree II







CATALOG NO.

DESCRIPTION

 2126.81
 MiniFlex[®] Model MF 300-6-2-10

 2126.82
 MiniFlex[®] Model MF 3000-10-2-1

 Accessories/Replacement - available on website store from www.aemc.com

 2119.94
 Adapter – BNC (Female) to 4mm Banana (Male)



Technical Assistance (800) 343-1391



Oscilloscope current probes expand oscilloscope applications in industrial or power measurement environments, and are ideal for analysis and measurement of distorted current waveforms and harmonics

	MEASUREM	IENT RANGE	OUTPUT SIGNAL	PHASE	MAXIMUM CO	OUTPUT	
MODEL	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 UL
MN261	0.1 to 24A 0.5 to 240A	_	100mVac/Aac 10mVac/Aac	<2.5°	0.78" (19.8mm)	N/A	Lead w/BNC UL
SRGG	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 UL
JM861 O	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
MN25IT	1 to 200A	_	1mVac/Aac	<2.5°	0.78" (20mm)	0.78" (20mm)	Lead w/BNC
MN379T	0.005 to 6A 0.1 to 120A 1 to 100A	_	200mVac/Aac 10mVac/Aac	<4°	0.78" (20mm)	0.78" (20mm)	Lead w/BNC

*Phase shift indicated at maximum rating.

Note: All probes are rated 600V CAT III and CE compliant. Not all models are UL approved; please consult factory.

CATALOG NO.	DESCRIPTION	
1201.51	AC/DC Current Probe Model SL261 (10A-100mV/A, 100A-10mV/A, BNC)	
2115.82	AC Current Probe Model MN261 (24A-100mV/A, 240A-10mV/A, BNC)	
2113.49	AC Current Probe Model SR661 (10A-100mV/A, 100A-10mV/A, 1000A-1mV/A, BNC)	
2110.90	AC Current Probe Model JM861 (30A-10mV/A, 300A-1mV/A, 3000A-0.1mV/A, BNC)	
2132.59	AC Current Probe Model MN251T (200A, 1mV/A, BNC)	
2153.02	AC Current Probe Model MN379T (5A-200mV/A, 100A-10mV/A, BNC)	—





MODELS 400D & 4000D

Provide a welcomed solution when accessing electrical conductors in tight places



Model 400D-6 (6" probe) Model 400D-10 (10" probe)

FEATURES

- Easy access and measurement, even in confined spaces
- Measurement from 20mAAC to 4000A (model dependent)
- Available with 6", 10", 14", 24", 60" and 120" sensor lengths
- Sensor diameter 1.77" to 38" (model dependent)
- Resolution down to 1mA (model dependent)
- HOLD feature
- Direct reading
- Compact and simple to use
- Flexible current sensor
- True RMS
- Safety rating of 600V CAT IV

PRODUCT INCLUDES

Digital FlexProbe[®], 2 AAA batteries and user manual.

CATALOG NO. DESCRIPTION

Ω	
English Restructor	
V	/

MINIFLEX: Model 4000D-14 (14" probe)

SPECIFICATIONS



MINIFLEX: Model 4000D-24 (24" probe)



MODEL	400D				
ELECTRICAL					
Display Range	4AAc 40AAc 400A				
Measurement Range	0.020 to 3.999A	4.00 to 39.99A	40.0 to 399.9A		
Resolution	1mA	10mA	100mA		
Accuracy	±(2% + 10cts)	±(1.5% + 2cts)	±(1.5% + 2cts)		
Sensor Diameter	400D-6: Ø 1.77" (45mm) / 400D-10: Ø 2.75" (70mm) / 400D-60: Ø 19" (483mm) / 400D-120: Ø 38" (965mm)				
Sensor Length	400D-6: 6" (170mm) / 400D-10: 10" (250mm) / 400D-60: 60" (1524mm) / 400D-120: 120" (3048mm)				
Bandwidth		10Hz to 3kHz			
MODEL	4000D				
Display Range	40Aac	400Aac	4000Aac		
Measurement Range	0.20 to 39.99A	40.0 to 399.9A	400 to 3999A		
Resolution	10mA	100mA	1A		
Accuracy	±(2% + 10cts)	±(1.5% + 2cts)	±(1.5% + 2cts)		
Sensor Diameter	4000D-14 : Ø 3.94" (100mm) / 4000D-24 : Ø 8" (190mm)				
Sensor Length	4000D-14: 1	14" (350mm) / 4000D-24: 2	4" (610mm)		
Bandwidth		10Hz to 3kHz			
MECHANICAL					
Power Supply		2 x 1.5V AAA / LR3 batteries	3		
Operating Temperature	32° to 122°F (0° to 50°C)				
Weight	approx. 0.29lbs (130g) MiniFlex / 1.7lbs (771g) AmpFlex				
Casing Dimensions	3.94	x 2.36 x 0.79" (100 x 60 x 20)mm)		
Connection Cable Length	6ft (1.8m)				
Safety		IEC 61010, 600V CAT IV			

Special product features







2153.30	Digital FlexProbe [®] Model 400D-6 w/6' Lead (TRMS, 4AAc, 40AAc, 400Aac)			
2153.31	Digital FlexProbe' Model 400D-10 w/6' Lead (TRMS, 4AAc, 40AAc, 400Aac)			
2153.32	Digital FlexProbe' Model 4000D-14 w/6' Lead (TRMS, 40Aac, 400Aac, 4000Aac)			
2153.35	Digital FlexProbe' Model 4000D-24 w/6' Lead (TRMS, 40Aac, 400Aac, 4000Aac)			
Accessories/Replacement - available on website store from www.aemc.com				
5000.44	MultiFix Multi-Position Magnetic Accessory (available on website storefront)			

MultiFix Multi-Position Magnetic Accessory (available on website storefront)



CURRENT MEASUREMENT PROBES FLEXIBLE CURRENT PROBES

AMPFLEX[®] FLEXIBLE CURRENT PROBES

Flexible AC current probe composed of a flexible sensor and an electronic module



**Consult factory for NIST Calibration prices

Consult factory for special offers and ranges/lengths not shown here. Note: Output is safety shrouded 4mm male banana plug

FLEXPROBE[®] FLEXIBLE CURRENT PROBE MODEL 24-3001

Low cost AC current measurement probe designed to plug into digital multimeters, oscilloscopes and power recorders

SPECIFICATIONS

MODEL	24-3001			
ELECTRICAL				
Current Range	300/3000AAC			
Output Signal	mV output (4000mV peak max)			
Three Position Slide Switch 10mV/A 1mV/A ON/OFF	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	6.5ft (2m)			
Output Connection	Double insulated 14" (355mm) lead with safety banana plugs			

FEATURES

24" flexible sensor fits around conductors up to 7.6" in diameter

CE

- Dual measurement ranges of 300A and 3000 AAC
- 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 \pm 1% of Reading \pm 500mA
- 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 typical150 hours of continuous operation (battery included)

FEATURES

CE

- Models ranging from 0.5 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



ACCESSORIES

BANANA (FEMALE) BNC (MALE) (XM-BB)

Catalog #2118.46 (optional for AmpFlex[®] & FlexProbe[®] Flexible Current Probes)



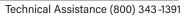
CATALOG NO.

DESCRIPTION

 2120.81
 FlexProbe* Model 24-3001 (300/3000Aac, 24", 10mV/A, Lead)

 Accessories/Replacement - available on website store from www.aemc.com

 2118.46
 Adapter - Banana (Female) - BNC (Male) (XM-BB)





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

DATA LOGGERS SIMPLE LOGGER[®] II TRMS CLAMP-ON CURRENT

MODEL CL601

Designed for plant and field service applications and for use in harsh environments

SPECIFICATIONS

Special product features







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, 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 1.42" (36mm) 2 conductor s- Ø 1.00" (25mm) each			
Weight (with battery)	17.1oz (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 XRM[™] every other of the oldest stored samples is discarded making room for newer samples. This process continues until the recording is manually stopped.





FEATURES

- 0 to 600Arms
- True RMS measurements
- Self contained, no exposed connections
- Overload indication
- Optically isolated USB 2.0 communication cable included
- One button operation
- Alarm function
- 5 LED indicators quickly and clearly display logger status
- Powered by standard Alkaline batteries
- Includes FREE DataView[®] software for data retrieval, 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

CATALOG NO. DESCRIPTION

2126.01

Simple Logger* II Model CL601 (1-Channel, TRMS, Clamp-On, 0 to 600AAc, DataView* software)



DATA LOGGERS SIMPLE LOGGER® II 4-CHANNEL BLUETOOTH EDITION

4-CHANNEL AMPFLEX® MODEL AL834

Four channel logger with 24" long flexible sensors capable of wrapping around an 8" conductor

SPECIFICATIONS

MODEL	AL834				
ELECTRICAL					
Channels	Four				
Input	Captive AmpFlex [®] AC Current Flexible Sensors				
Range	5 to 300Aac 15 to 3000Aac				
Accuracy (50/60Hz)	0 to 5A unspecified 5 to 300A: ±(1% of Reading + 0.5A)	0 to 15A unspecified 15 to 3000A: ±(1% of Reading + 1A)			
Resolution	0.1Aac	0.5Aac			
Sample Rate	64 samp	es/cycle			
Storage Rate	Programmable from	n 125ms to 1 per day			
Storage Modes	Start/Stop, FIFO, Extended Recording Mode (XRM™), Store on Alarm				
Recording Length	15 minutes to 8 weeks, programmable using DataView®				
Memory	1,000,000 measurements (2MB) The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed.				
Communication	Bluetooth connection (communicates up to 30 ft)				
Power Source	4 x 1.5V C-cell Alkaline batteries (included)				
Battery Life	Up to 180 days (dependent on storage rate/recording length)				
MECHANICAL					
Dimensions	5.904 x 5.904 x 3.568" (150	x 150 x 91mm) w/o Sensor			
Max Conductor Size	Ø 8" (2	03mm)			
Weight (with battery)	3.9 lbs (1.77kg)				
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

 Includes four integral AmpFlex^{*} flexible current probes that will measure up to 3000A TRMS with 0.5A resolution

65

cover open cover closed

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*

- Dual range 300/3000A user selectable per channel
- 64 samples per cycle
- Programmable storage rates from 125ms to 1 per day
- 4 user selectable storage modes
- Stores up to 1,000,000 measurements in non-volatile memory
- Powered by standard Alkaline batteries for a period of up to 180 days
- Lightweight, compact and watertight
- 6 LED indicators quickly and clearly display logger status
- Wireless Bluetooth data communication (Class 2 Bluetooth module included)
- Includes FREE DataView[®] software for data storage, real-time display, analysis and report generation
- EN 61010-1; 600V CAT IV, 1000V CAT III

APPLICATIONS

- Single/Split-phase and 3-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

PRODUCT INCLUDES

Bluetooth USB adapter, twelve colorcoded input ID markers, mounting hardware, 4 x 1.5V C-Cell Alkaline batteries, USB cable for firmware updates, and USB drive supplied with DataView^{*} software and user manual.



DESCRIPTION

2126.14

Simple Logger" II Model AL834 (4-Channel, TRMS, Bluetooth, AmpFlex" 300/3000AAc, DataView" software)

NTEGRAT CLARRENT PROS

Special product features





DATA LOGGERS SIMPLE LOGGER[®] II TRMS VOLTAGE

600Vac/dc MODEL L261

One channel loggers for voltage measuring, monitoring and troubleshooting

SPECIFICATIONS

MODELS	L261			
ELECTRICAL				
Channels	One			
Input Connection	Two recessed 4mm safety banana jacks			
Measurement Range	0 to 600Vac/dc			
Resolution	0.1V			
Accuracy (50/60Hz)	0 to 5V: unspecified 5 to 50V: ±(0.5% of Reading + 1V) 50 to 600V: ±(0.5% of Reading + 0.5V)			
Input Impedance	40ΜΩ			
Sample Rate	64 samples/cycle			
Storage Rate	Programmable from 8 every second to 1 every day			
Storage Modes	Start/Stop, FIFO, Extended Recording Mode (XRM [™]) and Alarm			
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	4.94 x 2.75 x 1.28" (125 x 70 x 32mm)			
Weight (with battery)	6.4oz (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
- AC: 64 samples per cycle and DC: 8 samples per sec
- Programmable storage rates from 8 every second to 1 every day
- 4 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 guickly and clearly display logger status
- Includes FREE DataView[®] software for data retrieval, real-time display, analysis and report generation
- Optically isolated USB 2.0 communication cable included
- EN 61010-1; 300V CAT IV; 600V CAT III

APPLICATIONS

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

PRODUCT INCLUDES

Set of two color-coded 5ft voltage leads, color-coded alligator clips (red/black), USB type A to 5 pin Mini-B, and USB drive supplied with DataView[®] software and user manual.



CATALOG NO. DESCRIPTION Simple Logger[®] II Model L261 (1-Channel, TRMS, 600VAc/Dc, DataView[®] software)

2126.05

DATA LOGGERS SIMPLE LOGGER[®] II TRMS VOLTAGE & CURRENT

MODEL L562



Two input channel logger capable of recording Arms, Vrms and VA



FEATURES

- 2 input channels
- Voltage: 0 to 600VAC TRMS
- Current: compatible with voltage output AC current probes with voltage outputs (see page 33 - sold separately)
- 64 samples per cycle
- Records Arms, Vrms & VA (VA displays in DataView[®] software)
- 4 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 FREE DataView[®] software for data retrieval, real-time display, analysis and report generation
- Optically isolated USB 2.0 communication cable included
- Complies with EN 61010-1; 300V CAT IV; 600V CAT III (a safety rated current probe is required)

APPLICATIONS

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

SPECIFICATIONS

MODEL	L562				
ELECTRICAL					
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	0 to 5V unspecified			
	10 to 50mV: ±(0.5% of Reading + 1mV)	5 to 50V: ±(0.5% of Reading + 1V)			
Input Impedance	50 to 1000mV: <u>±(0.5% of Reading + 0.5mV)</u> 800k0	50 to 600V: <u>+(0.5% of Reading + 0.5V)</u> 40M0			
· · ·	800K12	40IVI12			
Maximum Input Voltage***	5Vrms or ±7.07V peak	1.2 x 600V			
Sample Rate	64 samples/cycle				
Storage Rate	Programmable from 8 every second to 1 every day				
Storage Modes	Start/Stop, FIF0, Extended Reco	Start/Stop, FIFO, Extended Recording Mode (XRm™) and Alarm			
Recording Length	15 minutes to 8 weeks, programmable using DataView®				
Memory	The recorded data is stored	240,000 measurement (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 optic				
Power Source**	2 x 1.5V AA-cell Alkalin	,			
Battery Life	100 hours to > 45 days				
-	(dependent on sample ra	te and recording length)			
MECHANICAL					
Dimensions	5.38 x 2.75 x 1.28"	(136 x 70 x 32mm)			
Max Conductor Size	Current prob	e dependent			
Weight (with battery)	6.4oz	(181g)			
Case	UL94-VO				
Vibration	IEC 68-2-6 (1.5n	IEC 68-2-6 (1.5mm, 10 to 55Hz)			
Shock	IEC 68-2-27 (30G)				
Drop	IEC 68-2	-32 (1m)			

PRODUCT INCLUDES

Set of two color-coded 5ft voltage leads, colorcoded alligator clips (red/black), USB type A to 5 pin Mini-B, and USB drive supplied with DataView[®] software and user manual.

SEE PAGE 33 FOR COMPATIBLE CURRENT PROBES (SOLD SEPARATELY)

CATALOG NO.

DESCRIPTION

2126.35



Simple Logger[®] II Model L562 (2-Channel, TRMS, Voltage & Current, DataView[®] software)

DATA LOGGERS SIMPLE LOGGER[®] II TRMS CURRENT

DUAL CHANNEL MINIFLEX° MODELS ML912 & ML914

Two channel AC recording logger incorporates two selectable measurement ranges

SPECIFICATIONS

MODEL	ML912	ML914		
ELECTRICAL	WILJIZ	WL514		
	-	-		
Channels	Two	Four		
Input	Captive MiniFlex® AC Cu	urrent Flexible Sensors		
Range	0.5 to 100Aac 5 to 1000Aac			
Accuracy (50/60Hz)	0 to 1A unspecified 1 to 100A: ±(1% of Reading + 0.5A)	0 to 5A unspecified 5 to 1000A: ±(1% of Reading + 1A)		
Resolution	0.	IA		
Sample Rate	64 samp	les/cycle		
Storage Rate	Programmable from 8 ev	ery second to 1 every day		
Storage Modes	Start/Stop, FIFO, Extended Reco	ording Mode (XRM™) and Alarm		
Recording Length	15 minutes to 8 weeks, programmable using DataView \degree			
Memory	240,000 measurement (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 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: 6ft (2m)			
Weight (with battery)	8.67oz (245g)			
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

- Includes two or four 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 in software
- 64 samples per cycle
- Programmable storage rates from 8 every second to 1 every day
- 4 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 FREE DataView[®] software for data retrieval, real-time display, analysis and report generation
- Optically isolated USB 2.0 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

CATALOG NO.	DESCRIPTION	
2126.37	Simple Logger* II Model ML912 (2-Channel, TRMS, Bluetooth, MiniFlex*, 100/1000AAc, DataView* software)	
2126.40	Simple Logger II Model ML914 (4-Channel, TRMS, Bluetooth, MiniFlex', 100/1000AAc, DataView' software)	



DATA LOGGERS PROBE SELECTION CHART

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	PROBE OUTPUT	PROBE RANGE	MAX RANGE For Slii	CABLE DIAMETER	BUS BAR Size	OUTPUT Connection	NOTES
MN261	2115.82	100mV/Aac 10mV/Aac	0.1 to 24Aac 0.5 to 240Aac	10Aac 100Aac	0.78" (19.8mm)	N/A	Lead w/BNC	_
MF 300-6-2-10	2126.81	100mV/Aac 10mV/Aac	30Aac 300Aac	10Aac 100Aac	1.77" (44.96mm)	2.25 x 0.75" (57.15 x 19.05mm)	Sensor w/BNC	_
300-24-2-1	2112.88	100mV/Aac 10mV/Aac	5 to 30A 5 to 300A	10A 100A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	Must use adapter # 2118.46
1000-24-1-1	2112.39	1mV/Aac	5 to 1000A	1000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	Must use adapter # 2118.46
1000-24-2-1	2112.98	10mVac 1mV/Aac	5 to 100A 5 to 1000A	100A 1000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	Must use adapter # 2118.46
1000-36-2-1	2113.00	10mVac 1mV/Aac	5 to 100A 5 to 1000A	100A 1000A	11" (279.4mm)	N/A	Sensor w/Banana Plugs	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" (279.4mm)	N/A	Sensor w/Banana Plugs	Must use adapter # 2118.46
30000-24-2-0.1	2113.33	1mV/Aac 0.1mV/Aac	5 to 3000A 5 to 30,000A	1000A 10,000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	Must use adapter # 2118.46
MN251	2115.77	1mV/Aac	0.5 to 240A	240Aac	0.78" (19.81mm)	N/A	Lead w/Banana Plug	Must use adapter # 2118.46
MN255	2115.81	100mV/Aac 10mV/Aac	0.1 to 24Aac 0.1 to 240Aac	10Aac 100Aac	0.78" (19.81mm)	N/A	Lead w/Banana Plug	Must use adapter # 2118.46
MN353	2116.27	10mV/Aac	0.1 to 150A	100Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	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" (19.8mm)	N/A	Lead w/Banana Plug	Must use adapter # 2118.46
MN375	2115.41	100mV/Aac	0.1 to 10A	10Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	Must use adapter # 2118.46
MN379	2153.01	200mV/Aac 10mV/Aac	5Aac 100Aac	5Aac 100Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	Must use adapter # 2118.46
SR661	2113.49	1mV/Aac 10mV/Aac 100mV/Aac	1000Aac 100Aac 10Aac	1000Aac 100Aac 10Aac	2.13" (54.1mm)	N/A	BNC	_
SR752	2116.32	1mV/Aac	100mA to 1000A	1000Aac	2.05" (52.07mm)	1.96 x 0.19" (49.78 x 4.83mm)	Lead w/Banana Plug	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" (52.07mm)	1.96 x 0.19" (49.78 x 4.83mm)	Lead w/Banana Plug	Must use adapter # 2118.46



Banana (female) BNC (male) (XM-BB)

Catalog #2118.46 (optional for AmpFlex° & FlexProbe° Flexible Current Probes)

DATA LOGGERS TWO-CHANNEL DC VOLTAGE, CURRENT, PULSE & EVENT

MODEL L452

Bluetooth-enabled logger and event counter that records DC voltage, DC current, 4 to 20mA or pulse counts

Real-time display!

Powered by batteries or through a USB cable

SPECIFICATIONS

Special product features



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www.aemc.com

MODEL	L452			
ELECTRICAL				
Channels	Two*			
Input	Six-pin terminal strip			
Measurements	DC Current	DC Voltage	Event	Pulse
Range	4 to 20mA	100mV, 1V, 10V	N/A	N/A
Accuracy (% of Reading)	±(0.25% + 5cts)	±(0.5% + 1ct)	N/A	N/A
Resolution	0.01mA	0.1mV, 1mV, 10mV	N/A	N/A
Input Impedance	100Ω	1ΜΩ	1ΜΩ	N/A
Sample Rate	5 samples/s	5 samples/s	16 samples/s	100 samples/s
Sample Period	DC inputs: 200, 400, 600, or 800ms; or from 1 to 60 seconds Pulse detection: 10ms			
Storage Modes	Start/Stop (ends when memory is full or when the recording stop time is reached, whichever comes first)			
Recording Length	10 minutes to 1 year, set via instrument front panel or through DataView"			
Memory	32MB internal Flash memory (up to 1024 logging sessions, 16M samples)			
Communication	Bluetooth 2.1, Class 1 or USB 2.0			
Power Source	External: via USB connector Internal: 2 x AA NIMH rechargeable batteries (charges through USB port)			
Battery Life	Up to 180 days (dependent on storage rate/recording length)			
MECHANICAL				
Dimensions	1.275 x 2.578 x 5.413" (32.4 x 65.5 x 137.5mm)			
Weight (with battery)	6.7oz (190g) with batteries			
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)			
Shock	IEC 68-2-27 (30G)			
ENVIRONMENTAL				
Operating Temperature	32° to 122°F (0° to 50°C)			
Humidity	16 to 85%			
Protection	IP40 (instrument alone); IP20 (instrument with terminal strip)			

*Both channels must have the same input type.

PRODUCT INCLUDES

6ft USB cable, US 120V wall-to-USB plug, 6-pin screw terminal block, 2 x AA rechargeable NiMH batteries, quick start guide, and a USB drive containing DataView[®] software and a user manual.









Front Panel & Functional Displays





FEATURES

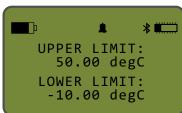
- Multiple data input types. The L452 can log DC voltage, DC current, 4 to 20mA pulse counts, or events.
 Measurements can be performed directly on the instrument, or through a variety of sensors. This data is stored in the instrument's large 32MB internal Flash memory.
- Expanded user interface. You can set up the instrument and view real-time measurement data through the front panel LCD screen and input buttons. The L452 features an on-board menubased interface for navigating measurement data and selecting configuration options.
- Enhanced DataView^{*} support. The instrument connects to a PC using either Bluetooth or USB. Once connected, logged data can be downloaded, analyzed, and formatted into reports using DataView's new Data Logger Control Panel. This Control Panel also enables users to change settings on the instrument, view real-time measurements, schedule recording sessions, and perform other configuration tasks.

INSTRUMENT CONFIGURATION



Instrument configuration parameters can be set through the front panel interface.

ALARM TRIGGERS



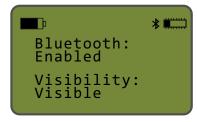
Allows you to set the upper and/or lower alarm trigger limits.

MIN/MAX MEASUREMENTS



For analog input types, this screen displays the session's MIN/MAX measurement values for each channel.

BLUETOOTH ENABLED/VISIBILITY



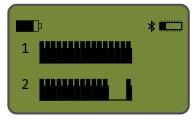
Enable and configure Bluetooth's functionality.

RECORDING SESSION



Displays the number of recording sessions currently stored in memory. It also shows the amount of free memory left for storing additional recording sessions.

EVENT MEASUREMENT DATA



For event input, the Channels 1 & 2 measurement graphic data screen appears.

CATALOG NO.

DESCRIPTION



Data Logger Model L452 (2-Channel, w/LCD, 100mV/1V/10Vbc, 4 to 20mAbc, Event & Pulse, DataView* software)



DATA LOGGERS 8 TO 16 CHANNEL LOGGER

MODELS DL-1080 & DL-1081

Versatile, powerful and cost effective data loggers handling analog, digital and other types of variables with high resolution and speed

Special product features



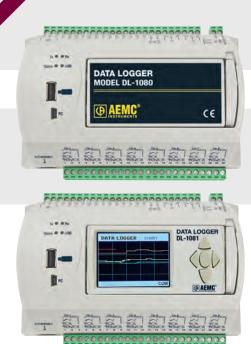




MODELS	DL-1080 & DL-1	1081		
ELECTRICAL				
Input Type	Measuring Range:	Accuracy:		
	-184° to 1832°F (-120° to 1000°C)			
ĸ	-202° to 2501.6°F (-130° to 1372°C)			
T	-202° to 752°F (-130° to 400°C)	±0.2% (F.R.) ±1°C		
E	-202° to 1436°F (-130° to 780°C)			
N	-202° to 2372°F (-130° to 1300°C)			
R	68° to 3214.4°F (20° to 1768°C)			
S	68° to 3214.4°F (20° to 1768°C)	±0.2% (F.R.) ±3°C		
В	212° to 3308°F (100° to 1820°C)			
Pt100	-328° to 1562°F (-200° to 850°C)	0150/(50)		
Pt1000	-328° to 1562°F (-200° to 850°C)	±0.15% (F.R.)		
Linear 0 to 20mA	· · ·			
Linear 4 to 20mA				
Linear 0 to 20mV				
Linear 0 to 50mV	User Programmable	±0.15% (F.R.)*		
Linear 0 to 60mV	User Flogrammable	±0.1370 (F.n.)		
Linear -20 to 20mV				
Linear 0 to 5V				
Linear 0 to 10V				
Digital Inputs	Logic level "0": from 0 to 0.8Vpc Logic level "1": from 3 to 30Vpc			
Internal Memory	2MB			
Excitation Current	Pt100s: 360µA; ; Pt1000s: 320µA			
Maximum Pt100/Pt1000 Compensated Cable Resistance	40Ω			
Maximum Input Voltage	30Vpc			
Input Current @ 30Vdc (typical)	3mA			
Digital Outputs	Maximum output volta Maximum output curre Maximum relay current: 3A @ 2	nt: 200mA		
Storage Rate	from 1ms to 24 h	, c		
Maximum Channel Logged	100			
Supported Modbus Commands	Read Coil Status (01h) Read Holding Registers (03h) Write Single Coil (05h) Write Single Register (06h) Write Multiple Registers (0Fh)			
Power Supply	100 to 240Vac, 50/60Hz,			
	100 LO 240VAC, 30/00HZ.			
ENVIRONMENTAL				
Operating Temperature	32° to 122°F (0° to	50°C)		
Relative Humidity	80% up to 85°F (3 For temperatures higher the decrease 3% pe	an 85°F (30°C),		
Altitude	< 6500ft (2000			
	(2000)			

F.R. = Full Range

*The full scale refers to the input of the sensor signal and not the range of configured indication.



INPUTS RATED CAT II

<u>____</u>CE 🗆

FEATURES

- 8 universal analog input channels
- 8 digital I/Os (individually configured as inputs or outputs)
- 2 relay outputs (NO, NC and common)
- RS485 interface (Modbus master or slave)
- 24Vdc output to power up to eight 4 to 20mA transmitters
- Ethernet interface for LAN and internet use
- USB-device interface for configuring, monitoring and download
- USB-host interface for logged data retrieval through a USB flash drive
- Up to 32 configurable alarms
- Up to 128 virtual channels
- Detachable display (optional)
- Up to 100 channels can be logged at a configurable rate
- Includes FREE software for data retrieval, real-time display, analysis and report generation
- 4 input channel types: analog, digital, remoted and virtual
- 16GB SD card interface



MODEL DL-1081

Color Functional Displays

"FAVORITES" SCREEN

Room Temp	Valve Pressure
84.22°F	428 PSI
In Flow Rate	Vat Temp
45.3 GPM	812ºF
Line Pressure	Out Flow Rate
253 PSI	45.3 GMP

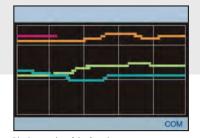
Shows a six-position grid where you can assign a channel to be displayed real-time in each position.

"CONFIGURATION" SCREEN

ieldLogger	
Date	16/11/2010
Time	12:01:18
Ethernet	
DHCP Enable	Yes
IP Address	000.000.000.000
Subnet Mask	000.000.000.000

Data logger and display parameters can be changed and viewed on this screen.

"CHART" SCREEN



Displays a plot of the favorite channels values.

"ALARMS" SCREEN

4	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32

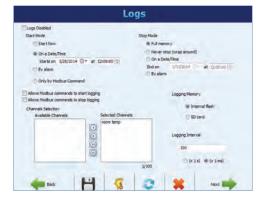
A 32-position grid where each numbered position is related to its equivalent alarm or event. When an alarm is active, its number will be displayed in red on this screen.

SOFTWARE SCREENS



Analog Channels Channels -C Channel 2 Channel 3 Channel + Channel 5 Inabled 1932.0 Channel 6 Channel 7 Drabled Chemel Oxte 9×11 H





Product Includes

DL-1080 & DL-1081 SOFTWARE

USB drive supplied with software, drivers and user manual

CATALOG NO.

DESCRIPTION

2134.61 2134.62 Data Logger Model DL-1080 (8 Analog to 8 Digital Channel, no LCD)

Data Logger Model DL-1081 (8 Analog to 8 Digital Channel, LCD)

Data*View*[®] DATA ANALYSIS & REPORTING SOFTWARE

TYPICAL DATAVIEW® FUNCTIONAL DISPLAYS

meral Recording Scales	Alarms					
Recording setup						
Storage period: 4 s	h ~	Duration	15 mm	*		
Sample period: 20	0 ms 🖂					
Start date: 7/	11/2001	Start time:	11:59:27 PM	1		
End date: 3	12/2001	End time:	12:14:27 AM	14		
Schedule recording			-			
Heasurement setup						
Channel Function	en (REC) (REC)	Enabled Input				
Channel Function	(REC)	Input O a stoomV	0.4-20m4			
Channel Function	(REC)	Input O a \$\$0mV O #1V	0 4-30mÅ O Event O Rulae			
Channel Functs	(REC)	Input () #100m/ () #1V () #20V	Olevent	Discourse	ental	
Channel Functs	(REC) (VEC) L452-1395951/P	Input () #100m/ () #1V () #20V	Olevent		ental	
Channel Functor 2. V2 #35V Session name: Memory Total: 21.08 H9/ste	(REC) (VEC) L452-1395951/P	Input ○ ±100mV ○ ±1V ● ±1V ● ±20V	O Event O Pulse Required		ental	

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

eneral Recording Scales Alarms	
Input scale	
Channel Function	_
1 V1 ±10V (REC) 2 V2 ±10V (REC)	-
	Linearity scale:
	Low: 0 = 0.00 Low displayed value
	High: 10 = 200.0 High displayed value
	Units: GPM (4 characters max)
	(Holdracters max)
Read Save	Load
	OK Cancel Help
ofigure Instrument	x
and a second second second	
Alarm Setup	
Alem Setup Chennel Function	Routed
	Chalded Chalded Chalce upper last Chalce upper last Chalce upper and laver limits Chalded upper and laver limits Chalded upper and laver limits Chalded upper limits
Alem Setup Chennel Function	Above upper Init O poly water Init O utdan upper and lower Inits O utdan upper and lower Inits I bouance
Alem Setup Chennel Function	O Adverse upper limit O trivitinin upper and lower limits O upper limits O upped upper and lower limits D upped upper limits Upper limit: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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CONFIGURE ALL DATA LOGGER FUNCTIONS

- 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 upgrade available from the help menu







SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

DC POWER SUPPLIES & DECADE BOXES

MODELS AX502 & AX503

SPECIFICATIONS

MODELS	AX502	AX503	
Number of Outputs	2	3	
VOLTAGE			
Output 1 & 2	0 to 30VDC	0 to 30VDC	
Output 3 (No display)	-	2.7 to 5.5VDC	
Display Resolution	100mV	100mV	
Basic Accuracy	±0.5% of Reading ±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	±0.5% of Reading ±1ct	±0.5% of Reading ±1ct	
Limit Indicator	LED, Outputs 1 and 2	LED, Outputs 1, 2 and 3	
Short-circuit Protection	Electronic current limitation	on with voltage shutdown	
Overheating Protection	Thermal p	protection	
OUTPUT COUPLING	_		
Tracking	Output 1: Mas		
	Slave Proportion		
	(0 to 100%		
Series Mode		c/0 to 2.5A	
Parallel Mode	0 to 30VD		
Power Source	110V, 50/60Hz (220V optional)	

MODELS BR07 & BC05 SPECIFICATIONS

DECADE	BR07	BC05		Accuracy	Residual Capacitance	Max Operating Voltage
1	1 to 10Ω; Max current: 700mA	0.1 to 1nF				Ū
2	10 to 100Ω; Max current: 200mA	1 to 10nF	MODEL	±1%	_	_
3	100Ω to 1kΩ; Max current: 70mA	10 to 100nF	BR07			
4	20mA	100nF to 1µF				
5	10 to 100kΩ; Max current: 7mA			1.20/		2001/DC
6	100kΩ to 1MΩ; Max current: 1mA	-	MODEL BR05	±3% (low residual capacitance)	25pF (approx.)	300VDC, 230VAC (50Hz)
7	1 to 10MΩ; Max current: 0.1mA	-				

CATALOG NO.

DESCRIPTION



FEATURES

- Dual 0 to 30Vdc/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

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





Capacitance and resistance

FEATURES

safety jack

decade boxes

Rotary switch selector

Stop position to prevent

accidental switching from 10 to 0 Male ground (earth) terminal with



CE

 \square

CE

- Outputs on Ø 4mm safety terminals
- Resistance ranges are 1Ω to 11.11111MΩ for BR07 and 0.1nF to 11.111µF for BC05

2130.06	DC Power Supply Model AX502 (Dual outputs, 0 to 2.5A; 0 to 30VDc; 110V, 50/60Hz)
2130.07	DC Power Supply Model AX503 (Triple outputs, two 0 to 2.5A; 0 to 30Vbc; 5A; 2.7 to 5.5Vbc; 110V, 50/60Hz)
2131.25	Resistance Decade Box Model BR07 (x10, x100, x1000, x1k0, x10k0, x100k0, x1M0, 1%)
2131.26	Capacitance Decade Box Model BC05 (x0, 1nF, x1nF, x10nF, x100nF, x1knF, 3%)
Accessories/Replace- ment - available on website store from	
www.aemc.com	
2117.78	Lead – 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
2126.47	Thermocouple (K) Type

Max

40 www.aemc.com





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MODELS 5212, 5215, 5217, 5231 & 5233

Compact and simple to use, these multimeters with a large backlit display and non-contact voltage detection are exceptional products and a great value for today's market



SPECIFICATIONS

leatures	
S.CONT	

Special product

OLTAG	





MODELS	5212	5215	5217	5231	5233	
GENERAL						
True RMS			Yes			
AC Bandwidth			1000Hz			
Auto/Manual Ranging			Yes			
LCD Display	4000-count	6000-count	6000-count	6000-count + 61 se	egment bargraph	
Auto/Manual Range Select			Yes			
/oltage AC/DC	600V	750Vac/1000Vdc	750Vac/1000Vdc	6 ranges/60mV to 1000		
Current AC/DC	4A/10A		1/10A	With 1mV/A clamp: 600A Resolution: 0.1A	2 ranges / 6 to 10A Resolution: 0.001A	
µAmps AC/DC	400/4000µA	600/6000µA	600/6000µA	-		
Resistance	40MΩ	60MΩ	60MΩ	6 ranges/60MΩ;	Resolution: 0.1Ω	
Frequency/Duty Cycle		-	1000Hz/Yes	-	3 ranges: up to 3kHz/Yes	
Capacitance		100mF		6 ranges/1000µF; F		
Temperature		-	-61° to 2192°F (-55° to 1200°C)	-	4° to 1400°F (-20° to 760°C) Resolution: 1°	
Continuity with Beeper			Yes			
Diode Test			Yes			
/ Low Z		Yes		4 ranges/60mV to 1000	V; Resolution: 0.01mV	
Non Contact Voltage Detection (NCV)	Ye	s/Red flashing display with bu	Izzer	Yes/Red display		
Max/Min/Max-Min	No	Yes/Yes	Yes/Yes	No/No	Yes/No	
∆ REL	No	Yes	Yes	No	Yes	
OTHER FEATURES						
Display Hold			Yes			
Flashlight		Yes		No)	
Backlight			Yes – Blue/Red			
Removable Holster		Yes		No)	
Magnetic Hanger		Yes – in the holster		No)	
Auto Power OFF			Yes			
Auto Power OFF Disable			Yes			
Power Supply		2 x 1.5V AA		9\		
Battery Life		500 hrs		> 100	hrs	
Low Battery Indication			Yes			
Direct Fuse Access			Yes			
Protection Index			IP54			
Drop Resistant		Yes - 6.56ft (2m)		Yes - 3.2	8ft (1m)	
Operating Temperature Range		-4° to 122°F (-20° to 50°C)		32° to 122°F (0° to 50°C)	
Double Insulated			Yes			
WARRANTY/SAFETY						
Warranty		3 Years		2 Yea	ars	
CAT III		600V		1000	VC	
CATIV		-		600	V	





Non-contact detection of network voltage (NCV Function-AC only)



MODELS 5212, 5215 & 5217 **Functional Displays** AC/DC voltage or current **Display Hold enabled** Diode test selected Continuity selected HOLD AC DC M, k: Decimal prefix •>>) MkΩHz Relative mode active AREL AUTO Hz: Frequency selected Auto measurement MAX, MIN or MAXminus MIN selected °F, °C: Temperature Auto Power OFF Low battery indication °C %: Duty cycle selected A, V: Amps or volts

MODELS 5231 & 5233

FEATURES

- AC/DC current up to 10A or 600A with a current clamp giving direct readings (Model 5231)
- High sensitivity with a resolution of 0.01mV
- Withstands overloads up to 8000V
- VLowZ function detects and eliminates ghost voltages by placing a burden on the circuit
- Multi-position mounting
- Battery life extended with "sleep mode" feature (Models 5212, 5215 & 5217)
- Backlight screen and flashlight (Models 5212, 5215 & 5217)
- Displays MAX, MIN and MAX-MIN (Models 5215 & 5217; Model 5233 displays MAX & MIN only)
- Displays relative measurement (Models 5215, 5217 & 5233)
- Measures temperature (Models 5217 & 5233)
- Measures frequency and duty cycle (Models 5217 & 5233)



Buzzer indication



MODELS 5212, 5215 & 5217

F: Farads for capacitance n, m, µ: Decimal prefix

Soft carrying pouch, set of two color-coded leads (red/black), 2×1.5 V AA batteries and user manual.

THERMOCOUPLE ADAPTER Included with Model 5217

MODELS 5231 & 5233

Soft carrying case, set of two 5ft color-coded test leads and user manual.

THERMOCOUPLE ADAPTER

Included with Model 5233

CATALOG NO.	DESCRIPTION
2154.07	DMM Model 5212 (TRMS, 4000-cts, NCV, V, A, AC/DC, Ohm, Auto Hold)
2154.08	DMM Model 5215 (TRMS, 6000-cts, NCV, V, A, AC/DC, Ohm, Auto Hold)
2154.09	DMM Model 5217 (TRMS, 6000-cts, NCV, V, A, AC/DC, Ohm, T, Frequency, Auto Hold)
2125.64	DMM Model 5231 (TRMS, 6000-cts, V, AC/DC, Ohm, CT, NCV)
2125.65	DMM Model 5233 (TRMS, 6000-cts, V, A, AC/DC, Cap, Ohm, T, NCV)



5
F
0
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SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

ELECTRICAL TEST TOOLS PHASE AND MOTOR ROTATION METERS

MODELS 6608, 6609 & 6610

Ideal for installing rotating machinery or motors, and for checking generator output phase direction

SPECIFICATIONS

MODELS	6608	6609	6610
ELECTRICAL			
Operating Voltage	40 to 850Vac between phases	With leads connected: 40 to 600Vac between phases	Static induction
Frequency Range	15 to -	400Hz	45 to 65Hz
Power Supply	Self-powered via the measurement inputs	9V Alkaline battery (included)	One 9V Alkaline battery (included)
MECHANICAL			
Dimensions	5.1 x 2.7 x 1.3" (130 x 69 x 32mm)		5.0 x 2.8 x 1.8" (128 x 72 x 44mm)
Weight	4.5oz (130g)	6oz (170g)	13.4oz (380g) battery included
ENVIRONMENTAL			
Operating Temperature	32° to 104°F (0° to 40°C)		14° to 122°F (-10° to 50°C); max. 80% BH
Storage		122°F	-4° to 140°F
Temperature	(-20° to 50°C); < 80% BH		(-20° to 60°C); max. 80% RH
Safety Ratings	IEC 61010-1, DIN VDE 0411; IEC 61557-7, DIN VDE 0413-7; Tightness: IP40 (as per IEC 60529 Ed.92)		EN 61010-1, EN 61326-1
Electrical Safety	600V CAT III		1000V CAT III; 600V CAT IV

PRODUCT INCLUDES

6608 & 6609

Carrying case, three test leads (4ft), three alligator clips and a user manual.

6610

Soft carrying case, meter with attached test leads (black, red & blue) with alligator clips, 9V battery and user manual.









(Models 6608 & 6609 only)

FEATURES

- Voltage sensing detector clips no metal contact points to promote greater safety (Model 6610)
- Indication of live phase presence or phase absence
- Designed for checking a wider range of 3-phase power source from 75V to 1000VAc (Model 6610)
- Determination of a motor's rotation direction (Model 6609)
- Automatic testing as soon as the instrument is connected
- Terminals and cables identified by colorcoding to simplify connection (test leads are attached to Model 6610)
- Phase rotation indicators (Model 6608)
- Phase and motor rotation indicators (Models 6609 & 6610)
- Color-coded leads (red, black, blue) and alligator clips (black)
- Color-coded jacks for common U.S. phase colors
- Line supplied no battery needed (Model 6608)
- Protected internally by high impedance circuit to limit the current to user safe limits

 CATALOG NO.
 DESCRIPTION

 2121.10
 Phase Rotation Meter Model 6608

 2121.11
 Phase & Motor Rotation Meter Model 6609

 2121.12
 Phase Rotation Meter Model 6610 (Non-contact)



ELECTRICAL TEST TOOLS TESTER, SPLITTER AND DETECTOR

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



NON-CONTACT AC VOLTAGE DETECTOR **MODEL NC-1**





SPECIFICATIONS

MODEL	NC-1
Voltage Sensitivity	120 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

2121.05 2121.09 2131.12

AC Line Splitter Model ALS-1 Non-Contact AC Voltage Detector Model NC-1 Non-Contact High Voltage Detector Model 275HVD (240V to 275kV) Manual self-test



ELECTRICAL TEST TOOLS NON-CONTACT HIGH VOLTAGE DETECTOR

MODEL 275HVD

Warns the operator of live conductors with the use of its detection sensor

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)
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)



- 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 (LED) indication of live voltage
- Self-test ensures that all system functions and indicators are working properly by energizing the complete system
- Designed for use with hot sticks incorporating a shotgun adapter

Note: Not designed to work on shielded cable or enclosure.

PRODUCT INCLUDES

Hard carrying case, 3 C cell batteries, shotgun adapter battery and user manual.











SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

ENVIRONMENTAL TESTERS LIGHTMETER DATA LOGGER

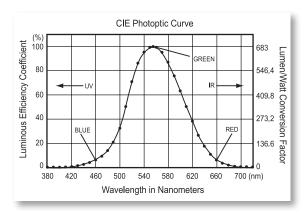
MODELS CA811 & CA813

Features optical sensors that are designed to match the response of the human eye

SPECIFICATIONS

Special product features

MODELS	CA811	CA813*
Range	20fc, 200fc, 2000fc, 20kfc	20fc, 200fc, 2000fc, 20kfc
	20lux, 200lux, 2000lux, 20klux	20lux, 200lux, 2000lux, 20klux, 200klux
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	±5% of Reading ±10cts ±18% of Reading ±2cts	±5% 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 di	splay (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. 7.55oz (214g) including battery	Approx. 7.9oz (224g) including battery



*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.

ightmeter Model CA811
ightmeter Model CA813





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
- Measures incandescent lighting
- 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 and dirt resistant gray cover

APPLICATIONS

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



ENVIRONMENTAL TESTERS SOUND LEVEL METER DATA LOGGER

MODEL CA832





FEATURES

- Easy one-hand operation
- Measures sound according to the sensitivity of the human ear
- Max function
- Three measurement ranges from 37 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 and dirt resistant gray cover

APPLICATIONS

- Factories
- Schools and Libraries
- Airports
- Office environments and Studios
- Auditoriums
- Hospitals
- Art Galleries

CATALOG NO.

DESCRIPTION



Sound Level Meter Model CA832

Designed to assess sound ambiences or nuisances inaccordance with international safety and quality standards

SPECIFICATIONS

MODEL	CA832
MEASUREMENTS	
Measurement Range	37 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" (13mm) 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: 10mV/dB – 50Ω AC output: 1.0Vrms – 600Ω
Frequency Weighting	Curves A and C
Time Weighting	S (slow) - 550ms and F (fast) - 55ms
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	8.11oz (230g) including battery









PRODUCT INCLUDES

Shockproof holster, protective foam microphone cap, screwdriver, male jack connector, assembly screw for camera type tripod, 9V battery and user manual.

Tripod mounting screw allows for mounting on a standard tripod stand. (Tripod not included)

ENVIRONMENTAL TESTERS THERMO-HYGROMETER DATA LOGGER

MODEL CA846

Provides excellent response time to changes in temperature, good repeatability and accurate readings

SPECIFICATIONS

Special product features







MODEL	CA846	
MEASUREMENTS - TEI	MPERATURE	
Measurement Range	-4° to 140°F (-20° to 60°C)	
Display Resolution	0.1°F (0.1°C)	
Sensor	NTC Temperature Sensor	
Accuracy	-4° to 32°F: ±2°F (-20° to 0°C: ±1°C) 32° to 140°F: ±1°F (0° to 60°C: ±0.5°C)	
MEASUREMENTS - REI	LATIVE HUMIDITY	
Measurement Range	0 to 100% RH	
Display Resolution	0.1% RH	
Sensor	Capacitive Humidity Sensor	
Accuracy	$\pm 5.0\%,$ 25°C, 10% to 90% RH $\pm 10.0\%,$ 25°C, 0% to 10% RH, 90% to 100% RH	
GENERAL		
Display	31/2 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. 7oz (197g) including battery	



CE

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 and dirt resistant gray cover

APPLICATIONS

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

CATALOG NO.

DESCRIPTION

2121.24

Thermo-Hygrometer Model CA846 (NTC)

ENVIRONMENTAL TESTERS INFRARED THERMOMETER DATA LOGGER

MODEL CA879

Provides precision measurement with its laser target feature



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
- For Continental US only

FIELD OF VISION RATIO

Distance (D) to Spot Size (S) D:S=12:1 inch 5.0@60 3.0@36 1.0@12 0 mm 125@1500 75@900 25@300

-58.0 to 1022°F (-50.0 to 550°C)

CATALOG NO.

DESCRIPTION



Infrared Thermometer Model CA879 (-58° to 1022°F)

AEWU NSTRUMENTS Technical Assistance (800) 343-1391

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	10.23oz (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	



PRODUCT INCLUDES

Soft carrying case, 9V battery and user manual.



SPECIAL PRODUCT FEATURES





www.aemc.com 53

ENVIRONMENTAL TESTERS TEMPERATURE DATA LOGGERS

MODEL 1821/1822/1823

Versatility & high performance temperature measurement



PRODUCTS INCLUDE

- 3 x 1.5V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- Soft carrying case
- K Thermocouple flexible sensor (Model 1821 only)
- (2) K Thermocouple flexible sensor (Model 1822 only)
- (1) 3 pin RTD connector (Model 1823 only)
- User manual and DataView[®] application software included on USB Drive





FEATURES

- Selectable Thermocouple type, J, K, T, N, E, R, S (Models 1821 & 1822)
- Single and dual channel (Models 1821 & 1822)
- Dual line display (Model 1822)
- RTD temperature measurement (Model 1823)
- Works with 100 or 1000 Ohm platinum sensor (Model 1823)
- User selectable temperature units, °F, °C
- Min and Max measurements stored
- HOLD function freezes the display
- Spot or continuous recording up to 1 million measurements
- Blue luminescent backlit display
- Programmable store on alarm function
- Magnetic mount
- Programmable alarms through software
- DataView[®] graphing and analysis software included
- Battery or USB powered

CATALOG NO.	DESCRIPTION
2121.74	Model 1821 Thermocouple Thermometer Data Logger Model 1821
2121.75	Model 1822 Thermocouple Thermometer Data Logger Model 1822
2121.76	Model 1823 RTD Thermometer Data Logger Model 1823
Accessories/Repla	cement - available on website store from www.aemc.com
2138.66	Cable - 6ft USB Type A - Type B Micro
5000.82	3-Prong Mini Flat Pin Connector (RTD) (for Model 1823)
2154.71	Carrying Pouch
2153.78	Adapter - US Wall Plug to USB
2122.31	Shock Proof Housing



TEMPERATURE DATA LOGGERS MODELS 1821, 1822, 1823

	1821 THERMOCOUPLE THERMOMETER	1822 THERMOCOUPLE THERMOMETER	1823 RTD THERMOMETER
	J, K, T, N, E, R, S 1 CHANNEL	J, K, T, N, E, R, S 2 CHANNELS	PT100, PT1000 1 CHANNEL
Measurement range	J - 210 to + 1,200 °C / K - 200 to + 1,372 °C / T - 250 to + 400 °C / - N - 200 to + 1,300 °C / E - 150 to + 950 °C / -; R, S - 0 to + 1,767 °C / 32	-328 to + 2,501 °F -418 to + 752 °F / -328 to + 2,372 °F 238 to + 1,742 °F	- 100 to + 400°C -148 to + 752°F
Resolution		000 °C : 0.1 °C and ø ≥ 1,000°C : 1 °C 000 °F : 0.1 °F and ø ≥ 1,000°F : 1 °F	Display in °C : 0.1°C Display in °F : 0.1°F
Accuracy (°C)	- 100°C < ∅ ≤	t ± (0.2% Reading + 0.6°C) + 100°C ± (0.15% R + 0.6°C) < ø ± (0.1% R + 0.6°C)	± (0.4% R + 0.3°C)
		00°C ± (0.15% R + 1.0°C) C < Ø ± (0.1% R + 1.0°C)	
FUNCTIONS			
Recording	Manual start/stop Short press on MEM: spot recording / Long Programmed recording rates from 1 minute Start date and end date can be customized		
Alarms	Alarm thresholds set using the software. Vis Recording can be triggered on alarm thresh	isual alert on the product in the event of an overrun holds	
Data storage	More than 1 million measurements		
Min-Max	Real-time display of Min and Max readings	available at the press of a button	
Hold	Freezes the measurement value on the disp	play	
Differential measurement	Model 1822 only		
Units	°C or °F		
Backlighting	Blue luminescent		
Automatic power off	User selectable choice of 3 minutes, 5 minu	utes, 10 minutes, or off through DataView® software	
POWER SUPPLY			
Туре	3 x 1.5V AA / LR6 alkaline batteries Connection to line power using supplied m	iicro-USB cable. Wall adapter sold separately	
Battery life	Model 1821 & 1822: 1,000 hrs (portable mode 3 years for recording (15-minute measurem		
PHYSICAL SPECIFICATIONS			
Interfaces	2 communication modes: Bluetooth and US	SB	
Mounting	Case equipped with a magnet, a wall mou Shock proof housing available as an acces	nt system and a slot for suspension of the product. Co sory	mpatible with the Multifix accessory (cat. 5000.44).
Connections	Compensated miniature female connectors	S	3-point flat connector
Dimensions/Weight	5.9 x 2.84 x 1.28" (150 x 72 x 32mm) / 9.2oz (2	260g) with batteries	
Protection	IP54		
Operating Range	Temperature from 14 to 140 °F (-10 to +60 °C	C) / Humidity from 10 to 90 %RH	
Standards	IEC61010-1 / IEC 61326-1		
GENERAL SPECIFICATIONS			
DataView [®] Software Functions	Real-time mode; Automatic report generati Graph or value-table presentation; Data exp	ion in Microsoft Word format port in graph or Microsoft Excel table format	



ENVIRONMENTAL TESTERS LIGHTMETER DATA LOGGER

MODEL 1110

Features optical sensors that are designed to match the response of the human eye

SPECIFICATIONS

Special product features





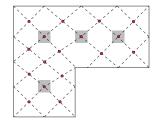


MODELS		1110		
Measurement Range	.01 lx to 200,000lx	0.01 fc to 18,580 fc		
	+3% of B or	n incandescent sources		
Accuracy		LEDs (3,000K to 6,000K)		
Accuracy		on flourescent sources		
Accuracy with compensation		: ±4% of R (at 4,000K)		
compensation	Flou mode: ±	4% of R (type F11, 4,000K)		
	0.1 lx (0.1 lx to 999.9 lx)	0.01 fc (0.01 fc to 99.99 fc)		
	1 lx (1,000 lx to 9,999 lx)	0.1 fc (100.0 fc to 999.9 fc)		
Display Resolution	10 lx (10,000 lx to 99.99 klx)	1 fc (1,000 fc to 9,999 fc)		
	100 lx beyond	10 fc beyond		
		irt/stop on the product		
Recording		cording/long press for REC at the defined		
	default rate			
	Programed recording: start date, recording interval, and end date defined using DataView software			
Other Functions	MIN-AVG-MAX-HOLD			
	Programmable from 1s, 2s, 5s, 10s, 20s, 30s, 2min, 5min, 10min, 15min,			
Sampling Rate		Omin, and 1hr		
MAP mode	The MAP mode can be used to map the lighting on the surface of a ro			
WAI IIIUUC		rements are saved in the same file		
Memory		1,000,000 measurements on each channel (4MB). Recorded data is stored in non-volatile memory and will be retained even if battery is low or		
wentory	removed.			
Communication	USB 2	2.0 and Bluetooth		
Power Source	3x1.5V AA (LR6) alkaline batteri	es or USB port (micro-USB adaptor offered		
rower source		an accessory)		
Battery Life		rs with 15min intervals		
Dimensions		4 x 1.28" (150 x 72 x 32mm)		
Weight (with battery)		2.52 x 1.38" (67 x 64 x 35mm) 345g) with batteries		
Case		olycarbonate		
		40°F (-10° to 60°C)		
Operating temperature		40°F (-20° to 60°C)		
Storage temperature	-4 101			
Relative Humidity	IDEO with LICE occurrenter	Up to 90%		
Ingress Protection (IP)	IPOU WILLI USB CONNECTOR	closed and protective cap on sensor		
EMC		EN 61326-1		
Safety Compliance		IEC 61010-1		
Warranty		2 years		



FEATURES

- User selectable light source, natural, LED or fluorescent
- Spectral error compensation for LED and fluorescent lighting
- Removable light sensor with expandable cord up to 48"
- Map mode profiles the illuminance map of the area or room by storing multiple measurements
- Min, Max, and Average measurements stored
- Hold function freezes the display
- Spot or continuous recording of up to 1,000,000 measurements stored in 8MB flash memory
- Blue luminescent backlit display
- User selectable Foot Candle or Lux units
- USB and Bluetooth communication
- Magnetic mount
- Battery or USB powered
- DataView[®] graphing and analysis software included



Measure and record multiple measurements to create an illuminance map of the room or area of interest

Lightmeter Data Logger Model 1110



DESCRIPTION

CATALOG NO.

2121.71

ENVIRONMENTAL TESTERS THERMO-ANEMOMETER DATA LOGGER

MODEL 1227

Easily measure and record wind speed, air flow, and temperature

C E A

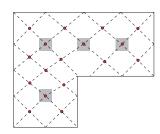
FEATURES

Measures temperature and air measurements

492.13

7997

- Dual line display
- User selectable wind speed or air flow measurement
- User selectable measurement units m/s, fpm, km/h, mph or $m^3 \text{s},\,m^3 \text{h},\,\text{R/s},\,\text{cfm}$
- Map mode profiles the illuminance map of the area or room by storing multiple measurements
- Removable anemometer with expandable cord up to 48"
- Min, Max and Average measurements stored
- · Hold function freezes the display
- Spot or continuous recording up to 1 million measurements stored in 8MB flash memory
- Blue luminescent backlit display
- USB and Bluetooth communication
- Magnetic mount
- Battery or USB powered
- DataView[®] graphing and analysis software included



Measure and record multiple measurements to create a map of air flow of the room or area of interest

CATALOG NO. DESCRIPTION

DESCRIPTION



Thermo-Anemometer Data Logger Model 1227

Technical Assistance (800) 343-1391

SPECIFICATIONS

MODELS	1227			
	Air Speed	Air Flow		
Measurement Range	0.25 to 35.0m/s (49.0 to 6,890.0fpm)	0.00 to 2,999m ³ /h		
Accuracy	±3% of R + 4 cts (0.25 to 2.99m/s) ±3% of R + 1 ct (3.0 to 35.0m/s)	8% of R		
Resolution	0.01m/s from 0.25 to 2.99m/s .1fpm from 49.0 to 99.9fpm 0.1m/s from 3.0 to 35m/s 1fpm from100 to 6,890fpm	0.01m3/h from 0.00 to 2.99m ³ /h 0.1 m3/h from 3.0 to 99.9m ³ /h 1m3/h from 100 to 2.99fm ³ /h		
Recording	Manual start/stop Short press for MEM: spot recording/lon rate Programed recording: start date, recordin DataView®.	g press for REC at the defined default e ng interval, and end date defined using		
TEMPERATURE	Dataview	Soliware		
Sensor	CTN	1		
	32° to 122°F: ±1.4°F	0° to 50°C; ±0.8°C		
Accuracy	-4° to 32°F: ±2.3°F	-20° to 0°C: ±1.6°C		
Resolution	0.1°F	0.1°C		
GENERAL				
Other Functions	MIN-AVG-M			
Sampling Rate	Programmable from 1s, 2s, 5s, 10s, 20s, 30			
MAP mode	The MAP mode can be used to map the a this case the measurements	air speeds on the surface of a room. In		
Memory	this case the measurements 1,000,000 measurements on each channel volatile memory and will be retained			
Communication	USB 2.0 and Bluetooth 4.	0 BLE range 1m typical		
Power Source	3x1.5V AA (LR6) alkaline batteries or USB			
Battery Life	access 200 hrs., / 8 days when recordi			
Dimensions	Case: 5.9 x 2.84 x 1.28			
	Sensor: 6.3 x 3.15 x 1.5			
Weight (with battery)	14.1oz (400g) w			
Case	Polycarb			
Operating temperature	14° to 140°F (-	,		
Storage temperature	-4° to 140°F (-2	,		
Relative Humidity	Up to S			
Ingress Protection (IP) EMC	EN 613	₹ 		
Safety Compliance	IEC 610			
Warranty	2 yea			



Special







ENVIRONMENTAL TESTERS THERMO-HYGROMETER DATA LOGGER

MODEL 1246

Measure humidity & temperature in all conditions

FEATURES

- Selectable Thermocouple type, J, K, T, N, E, R, S (Models 1821 & 1822)
- Single and dual channel (Models 1821 & 1822)
- Dual line display on (Model 1822)
- RTD temperature measurement (Model 1823)
- Works with 100 or 1000 Ohm platinum sensor (Model 1823)
- User selectable temperature units, °F, °C
- Min and Max measurements stored
- HOLD function freezes the display
- · Spot or continuous recording up to 1 million measurements
- Blue luminescent backlit display
- Programmable store on alarm function
- Magnetic mount
- Programmable alarms through software
- DataView[®] graphing and analysis software included
- Battery or USB powered







PRODUCT INCLUDES

- Soft carrying case
- 3 x 1.5 V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- User manual and DataView[®] application software included on USB Drive

CATALOG NO.

DESCRIPTION

2121.73	Model 1246
Accessories/Re	lacement - available on website store from www.aemc.com
2138.66	Cable - 6ft USB Type A - Type B Micro
2154.71	Carrying Pouch
2118.09	General Purpose Carrying Case
2122.31	Shock Proof Housing
2153.78	Adapter - US Wall Plug to USB
5000.44	Multifix Universal Mounting System



ENVIRONMENTAL TESTERS AIR QUALITY DATA LOGGER

MODEL 1510



00. 1510

· 1127. 73.6 + 40.3-

(B) AEMC

FEATURES

- CO2, temperature, and humidity logger
- · Free app available from Android and Google Play stores
- · Compact and stand-alone: for mounting or portable use
- · User-friendly: comfort indicators based on the CO2, temperature and humidity levels
- Accurate: complies with the latest standards concerning air quality monitoring
- Quick, simple data download using supplied DataView[®] software
- On-site calibration test module with adapter, tube and software for adjusting the zero and thresholds

Monitor CO₂, temperature, and humidity for a healthy environment

SPECIFICATIONS

-			CO2 Measurement
MATIC REPORT		Measuring Principle	Non-dispersive infrared (NDIR) technology
SENERATION C		Type of Sensor	Double-beam infrared cell sensor
		Measurement Range	0 to 5000 ppm
FEATURES		Accuracy (CO2)	± 50 ppm $\pm 3\%$ of value measured
	ature, and humidity logger	Response Time, 63%	< 200 seconds
	ilable from Android and Google	Resolution	1 ppm
Play stores		noonation	Temperature Measurement
Compact and portable use	l stand-alone: for mounting or	Type of Sensor	CMOS
	comfort indicators based on the	Units	°C or °F
	ature and humidity levels	Measurement Range	14° to 140°F (-10° to 60°C)
	nplies with the latest standards ir quality monitoring	Accuracy	±0.1°F (±0.5°C)
0	e data download using supplied	Resolution	0.1°F (0.1°C)
DataView [®] so	ftware		Humidity Measurement
	ration test module with adapter, ware for adjusting the zero	Type of Sensor	Capacitive
and threshold		Measurement Range	5 to 95% RH
		Accuracy	±2% RH
		Resolution	0.1% RH
			General
		Recording Interval	Programmable from 1 minute to 2 hours
	PRODUCTS INCLUDE	Storage	> 1 million measurements
Malaria		Alarm	Yes
Meter in carr Adapter - US		Backlighting Display,	Yes
6ft USB cable		Hold, Min & Max Auto Power OFF	Yes (in portable mode only)
2 AA batterie	-	Autorowerorr	4.92 x 2.58 x 1.26" (125 x 65.5 x 32mm)/
Quick start g	uide	Dimensions/Weight	6.7oz (190g) with batteries
	and DataView [®] application software	Protection	IP40
included on l	JSB Drive	Compliance	IEC 61010-1, 50V CAT II - IEC 61326-1
		Power Supply	Alkaline batteries: 2 AA or rechargeable battery connection to 120V 60Hz line/USB to wall adapter
CATALOG NO.	DESCRIPTION		
2138.08 2138.09	Air Quality Logger Model 1510 (Gray) Air Quality Logger Model 1510 (White)	Communication	Bluetooth (Class I) wireless communication/USB link; the product is then recognized as a USB drive for easy file transfer
Accessories/Replace	cement - available on website store from www.aemc.com		Optional padlockable wall mount (padlock is not included), optional deskto
2138.61 2138.62	Wall Mount Holster (Gray) Desktop Stand (White)	Mounting	stand and tear drop wall hook
	Adapter - US Wall Plug to USB		Graphic representation or as table of values, data export, real-time mode
2153.78		DataView [®] Software	

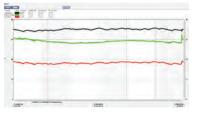




You can view measurements in real-time, download & analyze stored data, and create customizable reports all with DataView⁵

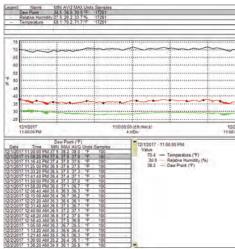
						_	
Sond number dodel Yamuwar version Di Sumetri Anime doston Status Status Mam Date Time Sattery voltage Communication Communication Commonitor rose	12349648C 1246 02.00,12 Thermo-Hvgrometer Disabled 128/2017 125/200000000000000000000000000000000000	Recording Recording status Sealon(5) Data Bridge Gate/Dime Duration Recording Searge Rate Channel Configuration Channel S Livite: Channel 3 Units Channel 3 Units	Sampling period Storage period: Memory 10.91% of the memory 7.10 MB/nes of availab	1/11/2000 1/11/2000 000:00:15: 1: 1: 2: 5: 5: 10: 0: 2: 5: 5:	 Start Siver gird Siner (D : H : M : S). total Inemory capacity.		

The recording configuration screen provides the ability to assign a name & location to the recording session, set the retrieval rate, and schedule when recordings will start and stop. It also displays memory usage. Other screens allow for the selection of measurement units, alarm set points, and other user selectable parameters.



Typical status screen shows

current state of the instrument





A rate companies in the general and a state community that construct wave proper to further testing required at this time. Repeat monitoring in 6 miorities

Typical graphic of recorded data displays recorded measurements vs. time as well as min, max, and average measurements for the recording. A movable cursor lets you see values at the cursor location A typical report will include a plot of the data as well as a listing of the measurements.

A report cover sheet provides information about the operator and the test site as well as a comment section for the operator to type in the test results and recomendations





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

GROUND RESISTANCE TESTERS DIGITAL TESTER

MODEL 3640

Easy to use one button operation, performs ground resistance measurement with speed and accuracy

SPECIFICATIONS

MODEL		3640				
Types of Measurements		2- and 3-Point				
Display		Digital				
Soil Resistivity Test		No				
Measurement Ranges	20Ω: 0.00 to 19.99Ω	200Ω: 20.0 to 199Ω	2000Ω: 200 to 1999Ω			
Resolution	10mΩ	100mΩ	1Ω			
Test Current	10mA	1mA	0.1mA			
Open Voltage		42V peak				
Operating Frequency		128Hz square wave				
Accuracy		±3% of Reading ±3cts; ±5% of Reading ±3cts				
Interference		eject high levels of interfere (DC, 50 to 60Hz, harmonics)	0			
Power Source	Eiç	ht 1.5V AA batteries (include	ed)			
Battery Life	Approx. 1800 15-second measurements					
Low Battery Indication	Yes					
Fuse Protection	Hig	h breaking capacity, 0.1A, >2	50V			



FEATURES

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

PRODUCT INCLUDES

Soft carrying case, eight 1.5V AA batteries and user manual.

Model 3640 Kit - 150 ft, shown



PLEASE REFER TO PAGE 40 FOR TEST KIT DESCRIPTIONS

CATALOG NO.	DESCRIPTION		
2114.92	Ground Resistance Tester Model 3640 (Digital, 3-Point)		
2135.13	Ground Resistance Tester Model 3640 Kit - 150ft (Model 3640 and Catalog #2135.35		
2135.14	Ground Resistance Tester Model 3640 Kit - 300ft (Model 3640 and Catalog #2135.36	3)	
Accessories/Replace	ment - available on website store from www.aemc.com		
2130.59	Calibration Checker – 25Ω for Models 3640, 4620 and 4630		
32 www.aemc.com	n Tec	hnical Assistance (800) 343-1391	



GROUND RESISTANCE TESTERS DIGITAL TESTER

MODELS 4620 & 4630

Both models will perform over 2000 measurements for the 15 second tests between recharging or battery replacement

cover closed

(🗆 cover oper

FEATURES

- Ground Integrity[®] Measurement
- 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 hold - read
- · LED on faceplate informs operator of high input noise, high auxiliary rod resistance and fault connections

DESCRIPTION

- Large easy-to-read backlit display
- Battery powered (Model 4620)
- AC powered with rechargeable NiMH . battery pack (Model 4630)
- Rugged dustproof and watertight field case
- Color-coded terminals

CATALOG NO.

SPECIFICATIONS

MODELS	4620			4630	
ELECTRICAL					
Range	20Ω	200	Ω	2000Ω	
Measurement Range	0.00 to 19.99Ω	20.0 to	199.9Ω	200 to 1999Ω	
Resolution	10mΩ	100r	mΩ	1Ω	
Open Voltage	≤42V peak	≤42V	peak	≤42V peak	
Resistance Measurement Frequency	128Hz square wave	128Hz squ	are wave	128Hz square wave	
Test Current	10mA	1m	A	0.1mA	
Accuracy	±2% of Reading ±1ct	±2% of F ±10	0	±5% of Reading ±3cts	
Auxiliary Electrode Influence Max Res. in Current Circuit Max Res. in Voltage Circuit	3kΩ 50kΩ	30k 50k		50kΩ 50kΩ	
Response Time		nately four to stabilized me			
Withstanding Voltage		250Vac of	r 100Vpc		
Power Source	Eight C cell batteries (Alkaline recomm		120/230V 50/60Hz Rechargeable 9.6V, 3.5 Ah Niñ battery pack (included)		
Battery Life	>2000 15-second	measuremen	nts; LO BAT	indication on LCD	
Fuse Protection	0.1A, >250V,	0.25 x 1.25"; 3	; 30kA Interrupt Capacity		



PRODUCT INCLUDES

Soft carrying case, batteries (4620 is C-cell & 4630 is rechargeable) and user manual Model 4630 Kit - 500 ft. shown

PLEASE REFER TO PAGE 40 FOR TEST KIT DESCRIPTIONS

••••••	
2130.43	Ground Resistance Tester Model 4620 (Digital, 4-Point, Battery Powered)
2130.44	Ground Resistance Tester Model 4630 (Digital, 4-Point, Rechargeable Battery)
2135.19	Ground Resistance Tester Model 4620 Kit – 150ft (Model 4620 and Catalog #2135.35)
2135.20	Ground Resistance Tester Model 4620 Kit – 300ft (Model 4620 and Catalog #2135.36)
2135.21	Ground Resistance Tester Model 4620 Kit – 500ft (Model 4620 and Catalog #2135.37)
2135.22	Ground Resistance Tester Model 4630 Kit – 150ft (Model 4630 and Catalog #2135.35)
2135.23	Ground Resistance Tester Model 4630 Kit – 300ft (Model 4630 and Catalog #2135.36)
2135.24	Ground Resistance Tester Model 4630 Kit – 500ft (Model 4630 and Catalog #2135.37)
Accessories/Repla	acement - available on website store from www.aemc.com
2130.60	Tape Measure (100 ft)
2135.35	Test Kit for 3-Point Testing – 150ft (see page 70 for descriptions)
2135.36	Test Kit for 4-Point Testing – 300ft (see page 70 for descriptions)
2135.37	Test Kit for 4-Point Testing – 500ft (see page 70 for descriptions)
2135.38	Ground Test Kit for 3-Point Testing (Supplemental for 4-Point testing – includes two 100ft color-coded leads, one 30ft lead (green), two 14.5" T-shaped auxiliary ground electrodes and soft carrying bag)
2130.59	Calibration Checker – 25Ω for Models 3640, 4500, 4610, 4620 and 4630



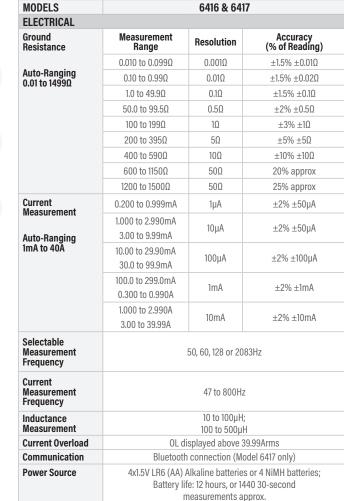
GROUND RESISTANCE TESTERS CLAMP-ON

MODELS 6416 & 6417

Provides high safety level with new ground voltage indication feature

SPECIFICATIONS

Special product features



PRODUCT INCLUDES

MODEL 6416

includes a hard carrying case, calibration loop, four 1.5V AA batteries and user manual.

MODEL 6417

also includes a Bluetooth USB adapter, quick start guide, and a USB drive with DataView software, ground workbook and user manual.





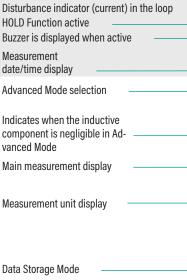
FEATURES

- Ground Integrity[®] Measurement
- Ground voltage indication (warns of possible unsafe conditions)
- Large multi-function bright yellow organic LED display (OLED)
- Selectable test frequency (improves accuracy in inductive environments)
- Clamping diameter of 1.37" (35mm) with large jaw design
- Storage of measurements (Ω and/or A, with time-stamping)
- Model 6416: up to 300 measurements stored
- Model 6417: up to 2000 measurements stored
- View stored measurements on the OLED display or via Bluetooth (Class 2 communicates up to 30ft) to a PC or the Android[™] based mobile application (Model 6417)
- Auto Power OFF function
- Alarm function with adjustable set point and buzzer for quick field checks for volts, amps and ohms
- Rugged Lexan[®] head and body construction resists breakage
- Alarm settings and stored memory information saved during shutdown
- Includes DataView[®] software for data retrieval, real-time display, analysis, report generation and system configuration (Model 6417)
- Noise icon and buzzer alert user to presence of dangerous voltage and current levels
- Designed to EN 61010-1, 600V CAT IV safety standards





Functional Displays



Memory Recall Mode _____ Memory index number display Bluetooth connection indicator (active for 6417 only)

MEASUREMENT RESULTS



Displays the leakage current and loop impedance at the test frequency

GROUND VOLTAGE



Indicates voltage potential at the point of measurement

CATALOG NO. DESCRIPTION



Ground Resistance Tester Model 6416 (Clamp-On, Alarm, Memory) Ground Resistance Tester Model 6417 (Clamp-On, *Bluetooth*, Alarm, Memory)

Incorrect jaw closing indicator Auto Power OFF active Battery charge indicator NOISE 00)) HOLD П P 4000-count upper measurement display Upper display measurement unit Main display measurement unit Hazardous voltage indicator Alarm measurement AL display unit MR Alarm threshold display Alarm active indicator

Note: Display shown larger than real size.

MEMORY RECALL MODE



Measurement storage date-time screen

CURRENT DISTURBANCE



Indicates that the current is greater than 10A



Indicates voltage/current alarm threshold along with the direction of impedance

IMPEDANCE OVER RANGE

MEM



Indicates that the impedance is greater than $1500 \Omega \label{eq:stability}$

Technical Assistance (800) 343-1391

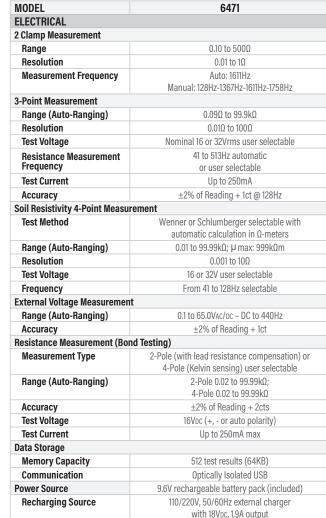
GROUND RESISTANCE TESTERS MULTI-FUNCTION

MODEL 6471

Test ground resistance without the need of auxiliary rods or with the 3- and 4- Point methods

SPECIFICATIONS

Special product features



PRODUCT INCLUDES

2135.48

Meter, carrying bag , 110/240V power adapter with US power cord, optical USB cable, rechargeable NiMH battery, DataView $^{\circ}$ software, ground tester workbook and user manual.

2135.49

Meter, carrying bag , set of two SR182 current probes, 110/240V power adapter with US power cord, optical USB cable, rechargeable NiMH battery, DataView® software, ground tester workbook and user manual.





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



KIT SHOWN 300FT KIT: CATALOG #2135.50

Includes meter, carrying bag for meter, carrying bag for kit, two 300ft color-coded leads on spools (red/blue), two 5ft color-coded leads (red/blue), two 100ft color-coded leads (hand-tied, green/black), two SR182 current probes, rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, four T-shaped auxiliary ground electrodes, set of five spaded lugs, one 100ft tape measure, and USB drive supplied with DataView[®] software, ground tester workbook and user manual.

ACCESSORIES



MN82 CURRENT PROBE (2mA to 10Arms) Catalog #2135.71 (optional)



REEL CADDY Catalog #2135.85 (optional) Set of two, for use with ground kit spools





FEATURES

Ground Integrity[®] Measurement

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 (r) 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 Power OFF feature

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

Rechargeable NiMH batteries from wall charger or vehicle power

Rugged dustproof and water-resistant field case – IP53 rated in closed position

Grounding standards IEC 61557 parts 4 and 5 compliant

Includes DataView^{*} software for set up, data retrieval, real-time display, analysis, report generation and system configuration

Can also be used for continuity tests on bonding

DESCRIPTION

4-POINT BOND TEST



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

SCHLUMBERGER TEST



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

DATA STORAGE



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

Large Functional Displays

3-POINT FALL-OF-POTENTIAL TEST



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

TWO CLAMP TEST



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

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.

CATALOU NO.	DESCRIPTION
2135.48	Ground Resistance Tester Model 6471 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView* software) SR182 probes not included
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)
2135.50	Ground Resistance Tester Model 6471 Kit – 300ft (Catalog #2135.49 and Catalog #2135.36)
2135.60	Ground Resistance Tester Model 6471 Kit – 300ft (Catalog #2135.48 and Catalog #2135.36)
2135.61	Ground Resistance Tester Model 6471 Kit – 500ft (Catalog #2135.48 and Catalog #2135.37)
Accessories/Repla	lacement - available on website store from www.aemc.com
2135.71*	AC Current Probe Model MN82 for use with Model 6471
2135.72*	AC Current Probe Model SR182 for use with Model 6471
2135.85	Caddy – Set of 2, Reel Caddy for use w/Ground Kit Spools

*2 probes required for two clamp testing method.



CATALOG NO

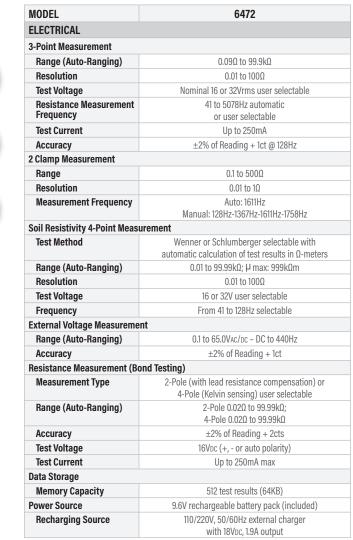
GROUND RESISTANCE TESTERS MULTI-FUNCTION

MODEL 6472

Used under difficult conditions such as the presence of high stray currents that normally affect accuracy

SPECIFICATIONS





PRODUCT INCLUDES

Meter, carrying bag, 110/240V power adapter with US power cord, optical USB cable, rechargeable NiMH battery pack, DataView[®] software, ground tester workbook and user manual.





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

TEST KITS 6472 METER

300ft Kit: Catalog #2135.53 500ft Kit: Catalog #2135.54 (shown)

Refer to page 40 for Model 6472 Kit descriptions Catalog #2135.35, #2135.36 & #2135.37

ACCESSORIES

MN82 CURRENT PROBE (2MA TO 10ARMS) Catalog #2135.71 (optional)

SR182 CURRENT PROBE (0.5MA TO 40ARMS)

Catalog #2135.72 (optional)

REEL CADDY Catalog #2135.85 (optional) Set of two, for use with ground kit spools







FEATURES

- Ground Integrity[®] Measurement
- Ground Resistance testing using the 2 clamp method (no auxiliary rods needed) using optional current probes
- 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 (μ) 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 Power OFF feature
- 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
- Automatic report generation including the fall of potential plot
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case IP53 rated in closed position
- Includes DataView[®] software for set up, data retrieval, real-time display, analysis, report generation and system configuration
- Can also be used for continuity tests on bonding

DESCRIPTION

4-POINT BOND TEST



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

SCHLUMBERGER TEST



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

DATA STORAGE



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

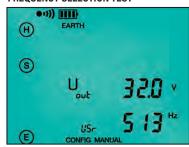
Large Functional Displays

3-POINT FALL-OF-POTENTIAL TEST



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

FREQUENCY SELECTION TEST



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

WENNER TEST



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

2135.51	Ground Resistance Tester Model 6472 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView* software)	
2135.53	Ground Resistance Tester Model 6472 Kit – 300ft (Model 6472 and Catalog #2135.36)	
2135.54	Ground Resistance Tester Model 6472 Kit – 500ft (Model 6472 and Catalog #2135.37)	
Accessories/Rep	placement - available on website store from www.aemc.com	
2135.71*	AC Current Probe Model MN82 for use with Model 6472	
2135.72*	AC Current Probe Model SR182 for use with Model 6472	
2135.85	Caddy – Set of 2, Reel Caddy for use w/Ground Kit Spools	
*2 probes required for	or two clamp testing method	

*2 probes required for two clamp testing metho



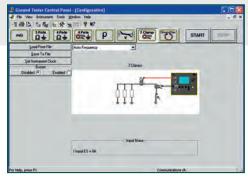
CATALOG NO.

GROUND RESISTANCE TESTERS MULTI-FUNCTION

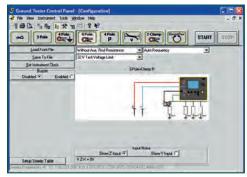


Typical DataView[°] Functional Displays

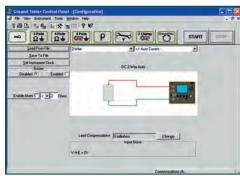
2 CLAMP METHOD SETUP



SELECTIVE 3-POINT TESTING OF MULTIPLE RODS



BONDING



OPTIONAL KITS

150FT KIT

Catalog #2135.35 Test Kit for 3-Point testing includes carrying bag, two 150ft color-coded leads on spools

(red/blue), two 5ft color-coded leads (red/blue), one 30ft lead (green), two 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs and 100ft tape measure.

300FT KIT

Catalog #2135.36 Test Kit for 4-Point testing includes carrying bag, two 300ft color-coded leads on

spools (red/blue), two 5ft color-coded leads (red/blue), two 100ft color-coded leads (green and black), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs and 100ft tape measure.



500FT KIT

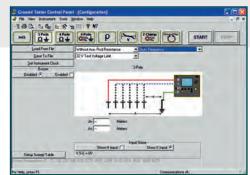
Catalog #2135.37 Test Kit for 4-Point testing includes carrying bag, two 500ft color-coded leads on spools (red/blue), two 5ft color-coded leads

(red/blue), two 100ft color-coded leads (green and black), one 30ft lead (green), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs and 100ft tape measure.

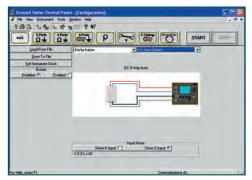




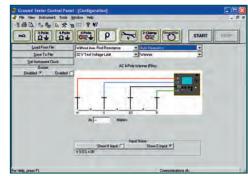
FALL-OF-POTENTIAL, STEP-TOUCH POTENTIAL



4-POINT BONDING FOR VERY LOW RESISTANCE

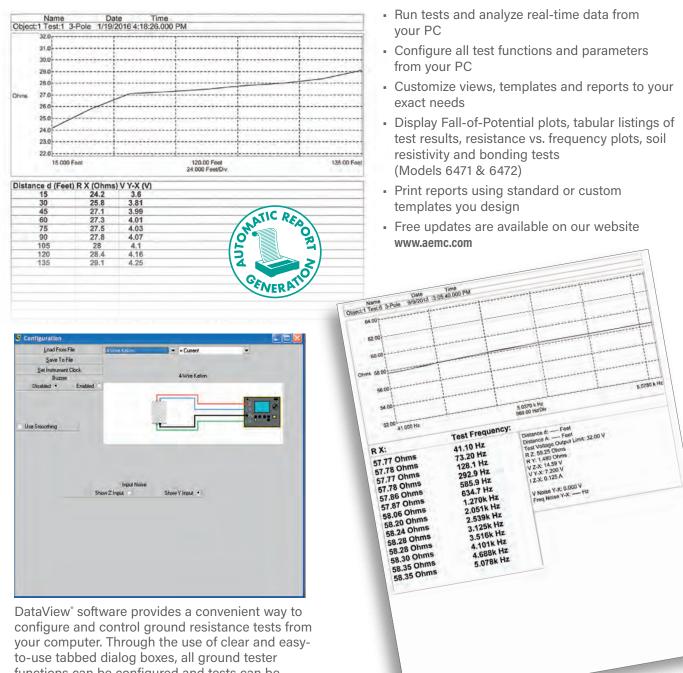


SOIL RESISTIVITY





CONFIGURE ALL FUNCTIONS OF MODELS 6417, 6471 & 6472



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.

Renteron Managencecon



GROUND RESISTANCE TESTERS MULTI-FUNCTION

GROUNDFLEX° FIELD KIT

Test active tower grounds safely without de-energizing or disconnecting any cables. Unique in the industry!

SPECIFICATIONS

MODELS

Special product features





	\frown		
DETE	MINE GA	OUND	
A C			
9400	CTOR O	UNY	
-	-101		

ELECTRICAL	3-POINT Method	4-POINT Selective Method	GROUND Measurement with 2 clamps	SOIL RESISTIVITY	GROUND Potential Measurement	DC Resistance Measurement	MEASUREMENTS WITH 6474			
Range (Auto-Ranging)	0.01W to 99.9kW	0.001 to 99.99W	0.01 to 500W	0.01W to 99.9kW	0.01mV to 65.00V	0.001W to 99.9kW	0.001W to 99.99kW			
Resolution	0.01 to 100W	0.001 to 10W	0.01 to 1W	0.01 to 100W	0.01 to 10mV	2 wires: 0.01 to 100W 4 wires: 0.001 to 10W	0.001 to 10W			
Accuracy	±(2% + 1 count)	±(2% + 1 count)	±(10% + 1 count)	±(2% + 1 count)	±(5% + 1 count)	±(2% + 2 counts)	±(5% + 1 count)			
No-Load Voltage	16 or 32Vrms	16 or 32Vrms	16 or 32Vrms	16 or 32Vrms	16 or 32Vrms	±16Vdc	16 or 32Vrms			
Measurement Frequency	41 to 5078Hz	41 to 5078Hz	Auto: 1611Hz Manual: 128Hz, 1367Hz, 1611Hz, 1758Hz	41 to 128Hz	41 to 128Hz	DC	41 to 5078Hz			
Coupling Measurement	Yes	_	-	-	-	-	-			
Auxiliary Rod Resistance Measurement	0.1W to 100kW	0.01W to 100kW	-	-	_	-	0.01W to 100kW			
Voltage Interference				Maximum 60Vpeak						
Soil Resistivity	-	-	-	Wenner and Schlumberger	_	-	-			
Type of Measurement	3 wires	4 wires	-	4 wires	3 wires	2 wires or 4 wires	-			
Measurement Current	-	_	_	-	-	> 200mA DC	_			
MECHANICAL										
Memory/Communication			512-reco	rd memory / optical li	nk / USB					
Dimensions/Weight		10.7 x 9.84 x 5.	04" (272 x 250 x 128mm)) / Model 6472: 7.05lbs	s (3.2kg) / Model 6474:	5.07lbs (2.3kg)				
Protection Safety		IP53 (cover closed)								
Electrical Safety		50V CAT IV, complies with IEC 61326-1 / IEC 61010 / IEC 61557-1-4-5								

6472 & 6474

GROUNDFLEX[°] FIELD KIT MODEL 6474

Includes GroundFlex[®] Adapter Model 6474, four GroundFlex[®] sensors (5m) with twelve color-coded rings, connection lead, two extension leads on H reel (black/green) with color-coded alligator clips, one extra black and green alligator clip, six BNC extension leads, calibration loop, three C-clamps, carrying case with wheels and handle for meters, one inverter 12Vdc to 120Vac 200 watt (vehicle use) and user manual. Catalog #2136.03 (includes Cat. #2135.54)

INCLUDED IN KIT:

GROUND TESTER MODEL 6472 KIT-500FT

Includes meter, rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, two 500ft color-coded leads on spools (red/blue), two 100ft color-coded leads (hand-tied, green/black), one 30ft lead (green), four T-shaped auxiliary ground electrodes, one 100ft AEMC^{*} tape measure, DataView^{*} software, ground tester workbook and user manual on USB drive, carrying bag for meter and carrying bag for kit.

Catalog #2135.54



Technical Assistance (800) 343-1391





AUTOMATIC RECOGNITION AND **DISPLAY OF INPUT CONNECTIONS** TO MATCH TEST

The connections are displayed and flash if incorrect or absent for the test selected.



FEATURES

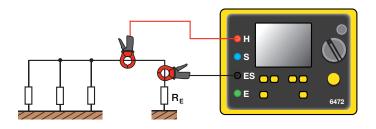
- Ground Integrity[®] Measurement
- 3- and 4-Point Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Point soil resistivity measurement with automatic calculation of Rho (ρ) and user selection of the Wenner or Schlumberger test method
- 2- and 4-Wire DC resistance measurement (Bond testing) with automatic polarity reversal
- 3-Point Earth coupling measurement
- Automatic frequency scan from 40 to 5078Hz for optimum test accuracy in electrically noisy environments
- Selectable test voltage limit of 16 or 32V with up to 250mA of test current
- Automatic recognition of all electrode connections and measurement of their resistance value
- Determines bonding condition of overhead ground conductors
- Auto Power OFF management
- Optically isolated USB communication
- Remote set up and operation of all measurements using DataView[®] software supplied
- Automatic report generation
- Rechargeable NiMH batteries from wall х. charger or vehicle power
- Rugged dustproof and water-resistant field case IP53 rated in closed position
- IEC 61557 parts 4 and 5 compliant
- Includes DataView[®] software for data retrieval, real-time display, analysis, report generation and system configuration

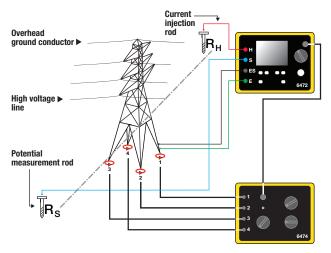
GROUND MEASUREMENT ON TOWERS WITH GROUND CABLE

High-voltage lines are usually equipped with a ground cable to allow lightning to discharge to ground via the tower. As all the towers are all connected to this conductor, all the tower's resistances are in parallel. This means it is impossible to measure tower resistance using traditional 3-Point methods unless the ground cable is disconnected, which is a dangerous and time-consuming operation.

GROUND RESISTANCE MEASUREMENT USING 2 CLAMPS

For systems with parallel ground connections, the Model 6472 is capable of accurately measuring a ground resistance using clamps only. This method involves placing 2 clamps around the ground conductor to be tested and connecting them each to the instrument. One clamp injects a known signal (32V/1367Hz) while the other clamp measures the current circulating in the loop. This method saves considerable time when ground testing because it is no longer necessary to set up auxiliary rods or to disconnect the ground connector.





4 AmpFlex[®] channels connected

CATALOG NO. DESCRIPTION 2136.03 GroundFlex* Field Kit Model 6474 (Includes Cat. #2135.54) 2136.05

GroundFlex® Adapter Model 6474 w/{1} 10m GroundFlex® Sensor (Includes Cat. #2135.54)

GROUND RESISTANCE TESTERS SELECTION CHART

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	VOLTAGE INDICATION	INDUCTANCE INDICATION	SWEEP FREQUENCY												
6416	2141.01	0.01 to 1500Ω	Battery	Clan		ound Resista arm & Memo		_	_	√ **	Digital	Voltage Displayed (noise icon, buzzer)	~	_												
6417	2141.02	0.01 to 1500Ω	Battery	Clan W	/Alarm,	ound Resista Memory & Blu mmunication	uetooth	_	_	√ **	Digital	Voltage Displayed (noise icon, buzzer)	~	_												
GroundFlex [®] Field Kit Model 6474	2136.03	0.001Ω to 99.99kΩ	Rechargeable Battery	_	~	~	~	~	_	~	Digital	Value Displayed	_	~												
6471 (SR182 probes not included)	2135.48																									
6471	2135.49	0.01 to 99.99kΩ	Rechargeable Battery	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Digital	Value Displayed	_	_												
6471 Kit 300FT	2135.50																									
6472	2135.51																									
6472 Kit 300FT	2135.53	0.01 to 99.99kΩ	Rechargeable Battery									~	~	~	\checkmark	\checkmark	✓	\checkmark	Digital	Value Displayed	-	~				
6472 Kit 500FT	2135.54																									
4620	2130.43	0.0 to	Battery	Battery	\checkmark	\checkmark	_	\checkmark	_	_	_	Digital	LED/Buzzer	_	_											
4620 Kit 150FT	2135.19	1999Ω						-				-	-	-	-	-	-				√*				0	
4620 Kit 300FT	2135.20	0.0 to 2000Ω	Battery	\checkmark	\checkmark	_	\checkmark	_	_	_	Digital	LED/Buzzer	_	_												
4620 Kit 500FT	2135.21	0.0 to 1999Ω	Juttory								2.9.00															
4630	2130.44						\checkmark																			
4630 Kit 150FT	2135.22	0.0 to	Rechargeable	\checkmark	~	_	√ ∗	_	_	_	Digital	LED/Buzzer	_	_												
4630 Kit 300FT	2135.23	1999Ω	Battery				\checkmark							_												
4630 Kit 500FT	2135.24																									
3640	2114.92																									
3640 Kit 150FT	2135.13	0.0 to 1999Ω	Battery	\checkmark	\checkmark	-	-	—	_	—	Digital	LED	_	-												
3640 Kit 300FT	2135.14																									

* 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.



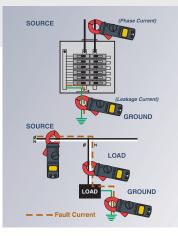


SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

LEAKAGE CURRENT METERS & PROBES TRMS CLAMP-ON LEAKAGE CURRENT METER

MODEL 565

Designed to measure low AC currents, which are typically leakage currents in ground conductors



SPECIFICATIONS

Special product features



MODEL		565 1	RMS		
mA AC Current (TRMS,	, Auto-Ranging)	0 to 600mA			
Resolution	60mA	0.01mA	(10µA)		
	600mA	0.1mA (100µA)		
Accuracy	50 to 60Hz	±1.2% of Rea	ading ±5cts		
	50 to 500Hz	±2.5% of Re	ading ±5cts		
	500Hz to 3kHz	±3.5% of Rea	ading ±10cts		
AC Current (TRMS, Aut	to-Ranging)	10 to	100A		
Resolution	10A	0.001A	(1mA)		
	100A	0.01A (10mA)		
Accuracy	50 to 60Hz	±1.0% of Rea	ading ±5cts		
	50 to 500Hz	±1.2% of Rea	ading ±5cts		
	500Hz to 3kHz	±2.5% of Rea	ading ±10cts		
AC Voltage (TRMS)		0 to 600V			
Accuracy	50 to 60Hz	±1.0% of Reading ±5cts			
	50 to 500Hz	±1.2% of Reading ±5cts			
	500Hz to 3kHz	±2.5% of Reading ±10cts			
DC Voltage		0 to 600V			
Resolution		0.1V			
Accuracy		±1.0% of Rea			
Resistance		0 to	11126		
Accuracy		±1.0% of Rea			
Continuity		Buzzer activates	<35Ω (0 to 1kΩ)		
Frequency (Auto-Rang	ging)				
Function		A-Hz	V-Hz		
Resolution	0 to 100Hz	0.1Hz	0.1Hz		
	100Hz to 1kHz	1Hz	1Hz		
Sensitivity		10mArms min	5Vrms min		
Accuracy		±0.5% of Reading ±2cts			
Filter		On (50/60Hz only); Off			
In-Rush		Max 100mS sample time			
Power Source Two 1.5V AAA batteries (included)			teries (included)		

PRODUCT INCLUDES

Two color-coded 5ft test leads, carrying case, batteries and user manual.



CATALOG NO.	DESCRIPTION
2117.56	Clamp-On Leakage Current Meter Model 565 (TRMS, 60mA, 600mA, 10A, 100A, 600Vac/ɒc, Hz, Ohms, Continuity)



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



CE 🗆 Trus

FEATURES

- Check for leakage and locate
 insulation breakdowns on
 live circuits
- Measures leakage current down to 0.1mA with up to 10µA resolution
- Measures current up to 100Arms
- Measures up to 600VAC/DC
- Measures Hz on either V or A inputs
- Measures resistance and continuity
- Hold feature freezes value
- Max feature keeps track of highest measured in-rush value
- Zero button ideal for measuring relative values
- Filter to isolate 50/60Hz fundamental from harmonics
- Compatible with VDE 0404
- Backlight LCD display





LEAKAGE CURRENT METERS & PROBES ARTIFICIAL NEUTRAL & LEAKAGE CURRENT PROBE

MODEL AN-1

Generates a momentary grounded artificial neutral to allow the measurement of fault currents on ungrounded three-phase systems

FEATURES

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



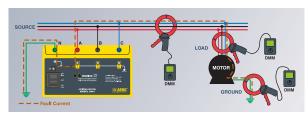


FEATURES

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



- 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



CATALOG NO.

DESCRIPTION

2125.52

1971.01

Leakage Current Probe Model 2620 (4A-1V/A, 400A-1mV/A output) Accessories/Replacement - available on website store from www.aemc.com Artificial Neutral Model AN-1



Technical Assistance (800) 343-1391

SPECIFICATIONS

MODEL	AN-1				
ELECTRICAL					
Working Voltage	30 to 600V				
Frequency	45 to 65Hz				
Resistance Per Phase	3.9kΩ ±5%				
Relay Duty Time	Slow position: 500mS / Fast position: 2.3 seconds				
Power Source	12VDC – Eight 1.5V AA batteries (included)				
Power Consumption	180mA				
Battery Life Approx. 40 hours of use					
MECHANICAL					
Dimensions	8.7 x 5.4 x 5.9" (220 x 136 x 150mm)				
Weight	2.9lbs (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)				

MODEL 2620

Check for leakage and locate insulation breakdowns on live circuits

SPECIFICATIONS

MODEL	2620				
ELECTRICAL					
	4A Range	400A Range			
Current Range	500µA to 4A	500mA to 400A			
Output Signal	1mV/mA (4V max)	1mV/A (400mV max)			
Accuracy					
500µA to 10mA	±3% of Reading ±1mV	_			
10 to 100mA	±0.5% of Reading ±0.5mV	_			
100mA to 4A	±0.5% of Reading ±0.5mV	_			
500mA to 10A	-	$\pm 0.5\%$ of Reading ± 0.5 mV			
10 to 100A	-	±0.35% of Reading ±0.5mV			
10A to 400A	-	±0.35% of Reading ±1mV			
Phase Shift					
500µA to 10mA	<15°	_			
10 to 100mA	<10°	_			
100mA to 4A	-	<1°			
500mA to 10A	-	<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	2.87lbs (1.3kg)				

LEAKAGE CURRENT METERS & PROBES AC CURRENT PROBES

MODEL SR759

Range selectable probe that offers four switch selectable ranges: 1, 10, 100 or 1000A

SPECIFICATIONS

MODEL	SR759					
MEASUREMENTS						
Measurement Range	1mA to 1Aac					
	10mA to 10Aac					
	0.1 to 100Aac					
	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	Ø 2.05" (52mm)					
Maximum Bus	One 1.95 x 0.19"					
Bar Size	(50 x 5mm)					
Output Termination	5ft (1.5m) Lead					

MODELS MN05 & MN114

Provides AC current measuring capabilities to instruments with mV inputs

SPECIFICATIONS

MODELS	MN05	MN114
MEASUREMENTS		
Measurement Range	5mA to 10Aac 1A to 100Aac	1mA to 10Aac
Output Signal	1mVac/mAac; 1mVac/Aac (10V @ 10A; 100mV @ 100A)	100mVac/Aac (1V @ 10A)
MECHANICAL		
Maximum Conductor Size	Ø 0.39" (10mm)	Ø 0.47" (12mm)
Output Termination	5ft (1.5m) Lead	5ft (1.5m) Lead
Security Rating	600V CAT III; CE approved	250V max.; Not CE approved



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
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- Output terminated with 4mm safety shrouded banana plugs on 5ft (1.5m) leads
- EN 61010, 600V CAT III safety standard



FEATURES

- 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 5mA to 100AAC (Model MN05)
- Measurements from 1mA to 10AAC (Model MN114)
- Excellent companion to all DMMs
- Permits very low AC current measurements

CATALOG NO.	DESCRIPTION
2116.33	AC Current Probe Model SR759 (1A, 10A, 100A, 1000A, mV/A, Lead) HA (High accuracy & phase shift)
2129.19	AC Current Probe Model MN05 (100A, 1mV/A & 10A, 1V/A, Lead)
2110.71	AC Current Probe Model MN114 (10A, 100mV/A, Lead)





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

MEGOHMMETERS 500V & 1000V HAND-CRANKED

MODELS 6501 & 6503

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

SPECIFICATIONS

MODELS		6501	6503		
INSULATION TE	STS				
Test Ranges*	250V	-	1 to 500MΩ		
	500V 1000V	0.5 to 200MΩ	1 to 500MΩ		
	10001	_	10 to 5000MΩ		
Short Circuit Cu	rrent	5mA	(max)		
Voltage Measure Safety Check	ement/	0 to 6	00Vac		
Accuracy (MΩ)		±2.5% of Full Scale Length			
Automatic Disch	arge	5s/µF	8s/µF		
Charge Time	250V	-	0.2s/µF		
	500V	0.5s/µF	0.5s/µF		
	1000V	_	0.5s/µF		
RESISTANCE T	ESTS				
Measurement Ra	ange	0 to 45kΩ; 45 to 500kΩ	-		
Test Current		1mAdc	-		
Accuracy		±2.5% of Full Scale Length	-		
CONTINUITY T	ESTS				
Measurement Ra	ange	0 to 9Ω; 10 to 100Ω	-		
Test Voltage		5mAdc (10V max)	_		
Accuracy		±2.5% of Full Scale Length	-		

*DC test voltage generated 5.5 to 200M $\!\varOmega$ in full across the entire measurement range.

PRODUCT INCLUDES

MODEL 6501

Soft carrying case, test leads, test probe and user manual.

MODEL 6503

Soft carrying case, test leads, blue lead & alligator clip, test probe and user manual







FEATURES

011

Cost

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

CATALOG NO.	DESCRIPTION
2126,51	Megohmmeter Model 6501 (Hand-cranked, 500V, Resistance, Continuity)
2126.52	Megohmmeter Model 6503 (Hand-cranked, 250V, 500V, 1000V)



MEGOHMMETERS 1000V DIGITAL





FEATURES

- True Megohmmeter[®]
- Insulation test voltage selections of 250V, 500V and 1000V
- Measure insulation to $4000M\Omega$ (4G Ω)
- TEST LOCK feature for time sensitive measurements up to 15 minutes
- Auto discharge after insulation test
- AC/DC voltmeter to 600VAC/1000VDC
- Ohmmeter to 400kΩ
- Continuity meter up to 200mA
 test current
- Test lead resistance compensation for accurate low resistance measurements
- Auto HOLD function to "freeze" readings
- Large and bright dual display with blue backlight
- Auto Power OFF feature
- Ergonomic over-molded case with back-stand
- Complies with International Insulation Testing Standards including EN61557

MODEL 6527

Specially designed for testing installations and equipment including DMM functions

SPECIFICATIONS

NODEL		6527			
NSULATION	TESTS				
lest Voltage	250V 500V 1000V	1kΩ to 4000ΜΩ (4GΩ) 1kΩ to 4000ΜΩ (4GΩ) 1kΩ to 4000ΜΩ (4GΩ)			
ccuracy	4ΜΩ/40ΜΩ 400ΜΩ 4000ΜΩ (4GΩ)	±2% of Reading ±10cts ±3% of Reading ±5cts ±4% of Reading ±5cts			
OLTMETER					
/ AC/DC		600V/1000V			
Accuracy	DC AC	$\pm 0.8\%$ of Reading $\pm 3cts$ $\pm 1.2\%$ of Reading $\pm 10cts$			
RESISTANCE -	TESTS - OHMMETI	ER			
Range		0.0 to 400.0kΩ			
Accuracy		±1.2% of Reading ±3cts			
CONTINUITY	TESTS				
Range		0.00 to 400Ω			
Accuracy		±1.2% of Reading ±3cts			
lest Current		>200mA (0.2Ω/2Ω)			
Fest Lead Com	pensation	Yes - dedicated push-button			
Beeper		Yes - <35Ω ±3Ω			
ELECTRICAL					
Power Supply		Six 1.5V AA batteries – Alkaline recommended (included)			

features

Special product





PRODUCT INCLUDES

Soft carrying case, set of two 5ft colorcoded test leads, alligator clips, one black test probe and user manual.



CATALOG NO.

DESCRIPTION



Megohmmeter Model 6527 (Digital, 250V, 500V, 1000V, Continuity, 400kΩ, V)

MEGOHMMETERS DIGITAL/ANALOG & MULTI-FUNCTION HANDHELD















SPECIFICATIONS

Special product features



MEG	OHMA
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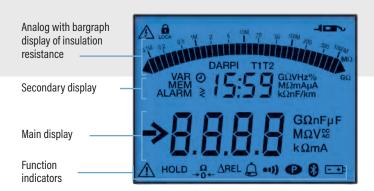
MODELS	6522	6524	6526	6532	6534	6536			
INSULATION TESTS									
Test Voltages	250V, 500V, 1000V	50V, 100V, 250V, 500V, 1000V	50V, 100V, 250V, 500V, 1000V	50V, 100V	10V, 25V, 100V, 250V, 500V	Variable 10 to 100V (1V steps)			
nsulation Resistance	40GΩ (40,000MΩ)	200GΩ (200,000MΩ)	200GΩ (200,000MΩ)	20GΩ (20,000MΩ)	50GΩ (50,000MΩ)	20GΩ (20,000MΩ)			
PI/DAR Ratios	-	Yes	Yes	Yes	-	-			
est Lock	Yes								
imer	0 to 40min 0 to 40min 0 to 40min 0 to 40min								
luto Discharge	Yes								
utomatic Test Inhibit			>2	5V					
DMM FUNCTIONS									
/oltage			700V	/ac/dc					
Resistance	-	1000kΩ	1000kΩ	1000kΩ	1000kΩ	1000kΩ			
Continuity	10Ω	10Ω, 100Ω	10Ω, 100Ω	10Ω, 100Ω	10Ω, 100Ω	10Ω, 100Ω			
est Current			200)mA					
apacitance Measurement	-	-	0.1n to 10µF	0.1n to 10µF	-	-			
requency	-	15.3 to 800Hz	15.3 to 800Hz	15.3 to 800Hz	-	-			
ENERAL FUNCTIONS									
llarm ∖ Rel		Yes	Yes	Yes	Yes	Yes			
uto Power OFF									
Data Hold			Y	es					
est Lead Compensation									
Remote Probe			Yes (or	otional)					
Nemory	_	300 measurements	1300 measurements	1300 measurements	1300 measurements	_			
Bluetooth	_	-	2.1 Class II	2.1 Class II	2,1 Class II	_			
DataView' Software	-	_	Included	Included	Included	_			
Display Type		1	Digital w/Ana	alog Bargraph		1			
Display Counts			5	100					
Backlight				es					
Safety				CAT IV					
Power Supply				Alkaline					
Protection				/IK 04					
Agnetic Mount				es					
Additional Features	-	-	Green/Red Pass/Fail Indicator	Cable length measurement (0 to 100km)	-	_			
Applications	Industrial Maintenance	Industrial Maintenance	Industrial Maintenance	Telecom	Electronics, ESD	Avionics, Space, Defense			

CATALOG NO. DESCRIPTION

2155.51	Megohmmeter Model 6522 (Digital w/Analog Bargraph, 250V, 500V, 1000V, Continuity, V)
2155.52	Megohmmeter Model 6524 (Digital w/Analog Bargraph, Alarm, 50V, 100V, 250V, 500V, 1000V, Ohm, Continuity, V, kΩ, Memory)
2155.53	Megohmmeter Model 6526 (Digital w/Analog Bargraph, Alarm, 50V, 100V, 250V, 500V, 1000V, Ohm, Continuity, V, kΩ, Capacitance, Memory, Bluetooth w/DataView* software)
2155.54	Megohmmeter Model 6532 (Digital w/Analog Bargraph, Alarm, 50V, 100V, Ohm, Continuity, V, kΩ, Cap, Memory, Bluetooth w/DataView [*] software)
2155.55	Megohmmeter Model 6534 (Digital w/Analog Bargraph, Alarm, 10V, 25V, 100V, 250V, 500V, Ohm, Continuity, V, kΩ, Memory, <i>Bluetooth</i> w/DataView* software)
2155.56	Megohmmeter Model 6536 (Digital w/Analog Bargraph, Alarm, Variable 10 to 100V, Ohm, Continuity, V, $k\Omega$)
2155.57	Megohmmeter Model 6536 ESD Floor Kit (Meter, set of 2, 5lb weights and carrying case)



MODELS 6522, 6524, 6526, 6532, 6534 & 6536





FEATURES*

- True Megohmmeter[®]
- Test voltage from 10 to 1000V
- Insulation resistance up to 200GΩ
- Manual, Lock, Timer modes & PI/DAR Ratio calculations
- · Alarms with Green/Red Pass/Fail indicator light
- 200mA/20mA continuity with active protection without fuses
- Measurement of V (TRMS & DC), F, $\Omega,\,k\Omega,\,$ Hz, C and cable length
- ΔRel mode for comparison measurements
- Configurable alarms
- Data retrieval
- Automatic discharge after test
- Automatic test inhibit if device under test is energized >25V
- * Features are model dependent Bluetooth on selected models

MODEL 6522 Catalog #2155.51 & MODEL 6524 Catalog #2155.52

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, 6 AA batteries and user manual.

MODEL 6526 Catalog #2155.53

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, 6 AA batteries, quick start guide, USB stick with DataView® software and user manual.

MODEL 6532 Catalog #2155.54 & MODEL 6534 Catalog #2155.55

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/ black) alligator clips, one black test probe, two color-coded (red/black) grip probes, 6 AA batteries, quick start guide, USB stick with DataView® software and user manual.



Front Panel & Functional Displays



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DataView[®] DATA ANALYSIS AND REPORTING SOFTWARE

CONFIGURE MEGOHMMETER

MODELS 6526, 6532 & 6534

Print reports of all test results

- Run tests from your computer with a simple click and execute process
- Capture and display data in real-time

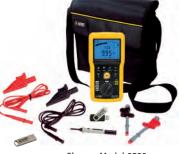
PRODUCT INCLUDES

MODEL 6536 Catalog #2155.56

Meter, soft carrying case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, two color-coded (red/black) grip probes, 6 AA batteries, and user manual.

MODEL 6536 Catalog #2155.57

Meter, field case, two 5 ft. color-coded (red/black) leads, two color-coded (red/black) alligator clips, one black test probe, two color-coded (red/black) grip probes, two 5 lb. weights with conductive rubber bottom pad, two 4mm non-insulated adapters, 6 AA batteries, and user manual.



Shown: Model 6532

MEGOHMMETERS 1000V DIGITAL/ANALOG

MODELS 1050 & 1060

Test insulation on cables, transformers, motors and wiring installations

1050

1060

SPECIFICATIONS

Special product features





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INSULATION TESTS Test Voltage 50V 100V 2kΩ to 200GΩ 4kΩ to 400GΩ 250V 10kΩ to 1000GΩ (1TΩ) 500V 20kΩ to 2000GΩ (2TΩ)	
Test voltage 50V 4kΩ to 400GΩ 100V 4kΩ to 400GΩ 250V 10kΩ to 1000GΩ (1TΩ) 500V 20k0 to 2000G0 (2TΩ) 20k0 to 2000G0 (2TΩ)	
1000V $40k\Omega$ to $4000G\Omega$ (4T Ω)	
Accuracy 2kΩ to 40GΩ 40GΩ to 4TΩ ±5% of Reading ±3cts ±15% of Reading ±10cts	
Voltage Test/Safety Check 0 to 1000Vac/dc	
Voltage Warning Indicator >25V	
Test Inhibition Yes >25V	
Smooth Function Yes	
RESISTANCE TESTS	
Measurement Range 0.01Ω to 400kΩ	
Test Voltage 12.4Vbc max	
Test Current <6mApc	
Accuracy>4kΩ±3% of Reading ±3cts	
CONTINUITY TESTS	
Measurement Range 0.01 to 39.99Ω	
Test Current $\geq 200 \text{ mA from } 0.01 \text{ to } 20.00 \Omega$	
Accuracy ±3% of Reading ±4cts	
COMMUNICATION	
Memory of Reading over Time R(t) Yes (20 Readings) Yes (128kB memory)	
Memory of Test Results 128kB memory with RS-232 to adapter (include	ÚSB
PC Software/Report Generation No DataView* (included)	
ELECTRICAL	
Power Source Eight 1.5V C Cells (included) 9.6V NiMH Battery (included) 85 to (50/60Hz)	

PRODUCT INCLUDES

Meter, detachable accessory pouch, two 5

ft. color-coded (red/blue) leads, one black shield lead, three color-coded (red/blue/

black) alligator clips, one black test probe,

spare fuses, eight C cell batteries and USB

DESCRIPTION

MODEL 1050 Catalog #2130.01

stick with user manual.







FEATURES

- True Megohmmeter[®]
- Test voltage selections of 50V, 100V, 250V, 500V and 1000V
- Insulation measurements to 4000GΩ (4TΩ)
- 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 OFF when not in use
- Remote operation with optional test probe
- Rugged, dual wall, water-resistant field case with detachable lead/accessory pouch
- EN 61010-1, 600V CAT III, EN 61557

MODEL 1060 Catalog #2130.03

Meter, detachable accessory pouch, two 5 ft. color-coded (red/blue) leads, one black shield lead, three color-coded (red/blue/black) alligator clips, one black test probe, RS-232 DB9 F/F 6 ft. null model cable, RS-232 to USB adapter, US 115V power cord, rechargeable NiMH battery, spare fuses, and USB stick with DataView[®] software and user manual.

CATALUG NO.	DESCRIPTION	
2130.01	Megohmmeter Model 1050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity)	
2130.03	Megohmmeter Model 1060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity, DataView* soft- ware, 128kB Memory)	
Accessories/Repla	cement - available on website store from www.aemc.com	
2155.75	Megohmmeter Test Probe (600V CAT IV)	

CATALOG NO



MEGOHMMETERS 5000V DIGITAL/ANALOG

installations and equipment

6505

30kΩ to 2000GΩ (2TΩ) 100kΩ to 4000GΩ (4TΩ)

100kΩ to 10,000GΩ (10TΩ) 300k $\Omega\,$ to 10,000G $\Omega\,$ (10T $\Omega)$

40 to 1000V: 10V increments 1000 to 5100V: 100V increments

<1.6mA ±5%

±5% of Reading ±3cts

±15% of Reading ±10cts

0.02 to 50.00

0.02 to 50.00

0.005 to 49.99µF; Max resolution 1nF

0.00nA to 3mA;

Max resolution 1pA

1 to 60 minutes

Yes, automatic

Yes

1V Resolution

Yes >25V

Yes >25V

Yes

One 9.6V NiMH battery pack (included);

Line power: 85 to 256Vac (50/60Hz)

Contributes to the safety of electrical

MODEL 6505



FEATURES

- True Megohmmeter[®]
- Simple operation
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from $30k\Omega$ to $10,000G\Omega$ (10TΩ)
- 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, water-resistant field case
- Designed and built to IEC safety standards

DESCRIPTION

- EN 61010-1, 1000V CAT III

SPECIFICATIONS

500V 1000V

2500V 5000V

INSULATION TESTS

Test Voltage/Range

User Programmable Test

 $10k\Omega$ to $40G\Omega$

40GΩ to 10TΩ

Short Circuit Current

DAR (1 min/30 sec)

Leakage Current

Discharge After Test

Measurement

Test Inhibition

Guard Terminal

ELECTRICAL

Power Source

PI (10 min/1 min & user programmable)

Capacitance Measurement

Programmable Run Time R(t)

Discharge Voltage Display

Voltage Test/Safety Check

Voltage Warning Indicator

Accuracy

MODEL

PRODUCT INCLUDES

Extra large classic tool bag, three color-coded leads, one blue jumper lead for use with guard terminal, three alligator clips (600V CAT IV), US 115V power cord, rechargeable battery pack and user manual.

CATALUU NU.	DESCRIPTION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, 500V, 1000V, 2500V, 5000V, Auto DAR/PI)
Accessories/Repla	cement - available on website store from www.aemc.com
2119.76	Lead – Set of 3, Color-coded 10ft 5kV Safety w/3 Color-coded Alligator Clips (1000V CAT IV) [15A] for use with Megohmmeter Models 5050/5060/5070/6505
2119.77	Lead – Replacement, Set of 3, Color-coded 6ft 5kV safety for Megohmmeter Model 6505
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)
2119.86	Lead – Set of 3, Color-coded 25ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 (Blue jumper lead not included)
2119.87	Lead – Set of 3, Color-coded 45ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 (Blue jumper lead not included)
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CATALOC NO

Special product features





2500Vac/4000Vpc (16 to 420Hz);

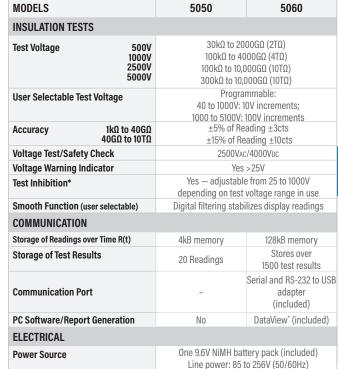
MEGOHMMETERS 5000V DIGITAL/ANALOG

MODELS 5050 & 5060

Designed with the highest level of safety features built in

SPECIFICATIONS

Special product features



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





DataView[®] DATA ANALYSIS AND REPORTING SOFTWARE

Print reports directly from your computer using DataView[®] software (Models 5060 & 5070)



SEE PAGE 90 FOR DETAILS



PC RS-232 CABLE Catalog #2119.45 DB9 F/F 6ft null modem cable Catalog #5000.60 RS-232 to USB adapter (Models 5060 & 5070)



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



CATALOG NO.	DESCRIPTION
2130.20	Megohmmeter Model 5050 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Auto DAR/PI/DD)
2130.21	Megohmmeter Model 5060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V Auto DAR/PI/DD, DataView* software)



5050, 5060 & 5070 (See page 87) Extra large classic tool bag, one red, one blue and one black lead with integral 5kV

MEGOHMMETERS 5000V GRAPHICAL

MODEL 5070

Offers real-time graphic plot of measurements and digital presentation of test results



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.			
$\begin{array}{llllllllllllllllllllllllllllllllllll$	±5% of Reading ±3cts ±15% of Reading ±10cts			
Voltage Test/Safety Check	2500Vac/4000Vdc			
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			
Storage of Test Results	Stores over 1500 test results			
Communication Port	Serial and RS-232 to USB adapter (included)			
PC Software/ Report Generation	DataView [®] (included)			
ELECTRICAL				
Power Source	One 9.6V NiMH battery pack (included) Line power: 85 to 256V (50/60Hz)			
*Inhibit voltage is selectable at 3,	10 or 20% of test voltage			

Special product features

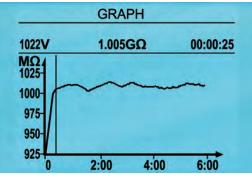






FEATURES

- True Megohmmeter[®]
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 30kΩ to 10,000GΩ (10TΩ)
- Selectable and programmable test voltage (40 to 5100V)
- Automatic calculation of DAR, PI and DD ratios
- Calculations of Step Voltage through front panel and Ramp test through software connection (Model 5070)
- 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 (Model 5070)
- Bright blue electroluminescent backlight
- Programmable temperature compensation (Model 5070)
- Programmable test voltage lock-out
- Programmable alarm setting
- Auto Power OFF when not in use
- AC or DC powered with rechargeable NiMH battery pack
 run while charging
- Rugged, water-resistant field case
- Designed and built to IEC safety standards
- Includes DataView[®] software for data retrieval, real-time display, analysis and report generation (Models 5060 & 5070)
- EN 61010-1, 1000V CAT III



DESCRIPTION

Insulation resistance measurement graphically displayed at the completion of the test at the push of a button.

2130.30 Megohmmeter Model 5070 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Step V, Auto DAR/PI/DD, DataView* software) Accessories/Replacement - available on website store from www.aemc.com 2119.45 Cable- Replacement PC RS-232, DB9 F/F 6 ft Null Modem Cable



CATALOG NO.

MEGOHMMETERS 10,000 & 15,000V DIGITAL

MODELS 6550 & 6555

Expert tools for testing insulation safely and accurately; ideal for use on rotating machinery and cables operating at higher voltages

SPECIFICATIONS

Special

product features

MODELS	6550	6555				
INSULATION TESTS						
Test Voltage 500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ (2ΤΩ) 10kΩ to 4000GΩ (4ΤΩ) 10kΩ to 10,000GΩ (10ΤΩ) 10kΩ to 15,000GΩ (15ΤΩ) 10kΩ to 25,000GΩ (25ΤΩ) - 10kΩ to 30,000GΩ (30ΤΩ)					
Fixed Test Voltages	500/1000/2500/5000/ 10,000V	500/1000/2500/5000/ 10,000/15,000V				
Variable Voltages	Variable: 40 to 10kV Three user programmable voltage schemes	Variable: 40 to 15kV Three user programmable voltage schemes				
Ramp Mode	Programmable ramps: start	voltage/end voltage/duration				
Ramp Configuration Range	40 to 1100V/500 to 10,000V	40 to 1100V/500 to 15,000V				
Step Mode	Up to 10 steps (voltage and duration configurable for each step)					
Voltage Test/Safety Test	0 to 2500Vac; 0 to 4000Vbc					
Capacitance Measurement	0.005 to 9.999µF/10.00 to 49.99µF					
Leakage Current Measurement	0 to 8mA					
Discharge After Test	Yes/Automatic					
Additional Test Stop Modes I-Limit	Programmable: 0.2 to 5mA di/dt					
Early-Break						
Timer	Up to 99 minutes 59 seconds					
Burn Mode	Constant testing					
Batio Calculation		AR, DD				
Calculation of R at ref. T°	,	es				
Measurement Display Filter		sible time-constants				
Graphs on Display); I(t); I(V)				
Storage		000 points: R, V, I and date				
Communication		/-isolated port				
PC Software		View				
Power Supply	NiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60Hz					
Battery Charging		rforming insulation measurements				
Dimensions / Weight		200mm)/approx. 13.7lbs (6.2kg)				
EMC, Mechanical Protection, Altitude	EN 61326-1,	IP54, 2000m				
Electrical Safety	1000V CAT IV; IEC6	1010-1 and IEC 61557				
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FEATURES

- True Megohmmeter[®]
- Fixed or programmable test voltage from 40V to 10kV/15kV
- Wide measurement range from 10k Ω to 30T Ω
- 5mA charging current
- Step voltage testing
- Ramp voltage testing
- Automatic calculation of DAR / PI / DD /ΔR (ppm/V) ratios
- Large, backlit graphical LCD screen with digital display, bargraph and R(t)+V(t), I(t) and I(V) graphs
- Multiple test modes: voltage ramp and step with "Burn-In", "Early-Break" and "I-Limit" modes
- Three filter settings to optimize measurement stability
- Calculation of R at a reference temperature
- Storage of 80,000 measurements
- Includes DataView[®] software for data retrieval, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView^{*} software

PRODUCT INCLUDES

Small classic tool bag, set of color-coded (red/blue/ black) 9ft (15kV) integral leads and alligator clips (1000V CAT IV), one 15kV jumper lead (blue), set of two color-coded test probes (red/black-1000V CAT IV), optical USB cable, 115V US power cord, 9.6V rechargeable NiMH batteries.



USB DRIVE USB drive supplied with DataView's software and user manual.





MEGOHMMETERS SELECTION CART

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AEMC MODEL NUMBER	AEMC CATALOG NUMBER	TEST VOLTAGE	INSULATION RANGE	RESISTANCE Range	CONTINUITY RANGE	CAPACITANCE Range	VOLTAGE Detection	POWER SOURCE	DISPLAY	DATAVIEW [®] Software	
1050	2130.01	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	0.01 to 400kΩ	0.01 to 39.99Ω	0.005 to 4.999µF	0 to 1000Vac/dc	8 x 1.5V C Cell Batteries	Digital/ Analog	No	
1060	2130.03	50V 100V 250V 500V 1000V	2kΩ to 2006Ω 4kΩ to 4006Ω 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	0.01 to 400kΩ	0.01 to 39.99Ω	0.005 to 4.999µF	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	Yes	
5050	2130.20	500V 1000V 2500V 5000V	30kΩ to 2TΩ 100kΩ to 4TΩ 100kΩ to 10TΩ 300kΩ to 10TΩ	-	-	0 to 49.99µF	2500Vac 4000Vbc	Rechargeable NiMH Battery	Digital/ Analog	No	
5060	2130.21	500V 1000V 2500V 5000V	30kΩ to 2TΩ 100kΩ to 4TΩ 100kΩ to 10TΩ 300kΩ to 10TΩ	_	_	0 to 49.99µF	2500Vac 4000Vbc	Rechargeable NiMH Battery	Digital/ Analog	Yes	
5070	2130.30	500V 1000V 2500V 5000V	30kΩ to 2TΩ 100kΩ to 4TΩ 100kΩ to 10TΩ 300kΩ to 10TΩ	_	_	0 to 49.99µF	2500Vac 4000Vbc	Rechargeable NiMH Battery	Graphic/ Digital	Yes	
6501	2126.51	500V	0.5 to 200MΩ	0 to 500kΩ	0 to 100Ω	_	0 to 600Vac	Hand-cranked	Analog	No	1
6503	2126.52	250V 500V 1000V	1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ	_	_	_	0 to 600Vac	Hand-cranked	Analog	No	
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	2500Vac 4000Vbc	Rechargeable NiMH Battery	Digital/ Analog	No	
6522	2155.51	250V 500V 1000V	50kΩ to 40GΩ	-	10Ω	-	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No	
6524	2155.52	50V 100V 250V 500V 1000V	10kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	_	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No	
6526	2155.53	50V 100V 250V 500V 1000V	10kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10µF	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes	
6527	2126.53	250V 500V 1000V	1kΩ to 4GΩ 1kΩ to 4GΩ 1kΩ to 4GΩ	0.0 to 400.0kΩ	0.00 to 400Ω	_	0 to 600Vac 0 to 1000Vdc	6 x AA Alkaline Batteries	Digital/ Analog	No	
6532	2155.54	50V 100V	10kΩ to 20GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10µF	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes	
6534	2155.55	10V 25V 100V 250V 500V	2kΩ to 50GΩ	1000kΩ	10Ω, 100Ω	-	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes	
6536	2155.56	10V	2kΩ to 20GΩ	1000kΩ	10Ω,	_	700Vac/dc	6 x AA Alkaline	Digital/	No	
6536 ESD Floor Kit	2155.57	100V	List to Look		100Ω			Batteries	Analog		
6550	2130.31	500V 1000V 2500V 5000V 10,000V	10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ	-	-	0.001 to 9.999µF 10.00 to 19.99µF	0 to 2500Vac 0 to 4000Vbc	Rechargeable NiMH Battery	Digital/ Analog	Yes	
6555	2130.32	500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ 10kΩ to 30,000GΩ	_	_	0.001 to 9.999µF 10.00 to 19.99µF	0 to 2500Vac 0 to 4000Vbc	Rechargeable NiMH Battery	Digital/ Analog	Yes	
											-







CONFIGURE ALL FUNCTIONS OF THE MEGOHMMETER MODELS 1060, 5060, 5070, 6526, 6532, 6534, 6550 & 6555



- Print reports of all test results
- Select test voltage and run tests from your computer with a simple click and execute process
- Capture and display data in real-time
- Retrieve data from the instrument's memory for:
 - Over 1500 insulation resistance measurements
 - Over 4000 resistance measurements

- Display DAR and PI ratios
- Plot graphs of manual and timed tests
- Include your analysis comments section with the report
- Store a library of setups for different applications
- Certification of results through report generation
- Free updates are available on our website www.aemc.com

TYPICAL DATAVIEW[®] FUNCTIONAL DISPLAYS

ieneral Settings	atable Voltages	Ramp Volt	tages Tar	mperature				
Test Run Settings		-	-		Date Format		Wite	to inst
Test run time:				00:01-49:59)	WIN/DD/Y	~	Read	from least
Sample interval R	21	1.00	(tokra.)	00:10 - 10:00)	C European			
PI Settings					DD-MM/Y	2011	Save	to Diek
hat Pittme		1.00	(nin a.	00:30 - 59:59	Butter		Load t	com Daik
2nd Plane:		10:00	(nina,	(0.30 - 59.59)	O DN	-10	De	/auts
Test Voltage		A	lam Set Po	10	@ OFF			
MD - 500 V		< *	500.0 k	30kD -2 TD	Auto Power OF	F		
MD - 1000 V		e.•	1000 k	100 KQ - 4 TQ	ON OFF	Ø		
MD - 2500 V		s •	2.500 M	300 KQ - 10 TQ	Deturbance vol			
MD - 5000 V		6.+	5.000 N	300 KQ - 10 TQ	Intation		10-00	
		Contract of			031		Set	Cook.
Evable all test					0 10 1		Clear	Memory.
	Mann		8400	1.5015(00)V	025			
						Ť	Gee	Help

Four tabbed dialog boxes allow for clear and easy setup of all

functions of the Model 5070, including setup for variable

6.9

Variable Voltage selections from 40 to 5100V and can also be programmed along with alarm set points. voltage and alarm set points, as well as step voltage tests and

	Par	.1	Ram		Ran		Wite to Inst
	Votage (40 - 5100 V)	Duration (humin)	Votage (40 - 5100 VI	Duration (humin)	Votage (40 - 5100 V)	Duration (humin)	Read from Inst
Step 1	500	0.01	100	0.01	1000	0.01	Save to Dak
Step 2	400	0.01	300	0-01	2000	0.01	Load from Dak
Step 3	500	0.01	500	0.01	1000	501	Defaults
Step 4	1000	0.01	700	0-01	4000	0.01	
Step 5	1500	0.01	900	0.01	5000	0.01	
Rij) sam	plie (min.is)	0.10		010		0:10	
							Set Oock
							Clear Hemory

Model 5070 includes Ramp Function which allows programming of three different ramp test profiles, each containing up to five voltage steps between 40 and 5100V and time per step of up to 10 hours.

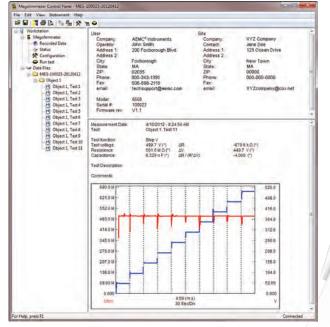
det Veer Fame Zoom Instrument Topis Window Help □ Δ Φ C. □ Pa Ξ ★ of □ ♦ T L ■ A % 2 ■ \ □ €, Ξ € 6 Β Η ◀ ↓ ▶ ₩ % % 1 Object 1 Test 3 (R) 2 Object 1 Test 3 (V) Test result status box displays complete test Step voltage during the test run Insulation resistance with temperature 9/10/2015 compensation est Summery [Object 1, Test 3 (R) | Object 1, Test 3 (V)] heet 2 ef 4

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



temperature compensation.

DataView® DISPLAYS



All stored test results presented on screen.

General Settings Variabi	e Voltages Ramp Fun	ctions Ste	ep Functione		
Test Run Settings Test run time:	(0) 200	(min.o.)	00:10 - 99:59)	Buzzer	Write to instrument
DAR Settings 1st DAR time: 2nd DAR time:	0.30		00:30 - 1:30) 00:35 - 3:00)	 Medium +ii)) iii) Low +ii iii) OFF 	Read from instrument Save to Disk Load from Disk
PI Settings 1st Pi time: 2nd Pi time:	1.00		00:30 - 59:59) 00:30 - 59:59)	Auto Power OFF	Defaults
Test Voltage MQ - 500 V MQ - 500 V MQ - 2500 V MQ - 2500 V MQ - 5000 V MQ - 10000 V MQ - 15000 V	A Maximum voltage: Maximum current:		rts 10 kQ + 2 TQ 10 kQ + 4 TQ 10 kQ + 10 TQ 10 kQ + 10 TQ 10 kQ + 15 TQ 10 kQ + 25 TQ 10 kQ + 30 TQ 40 - 15000 V 0.2 - 5.0mA	Test Type Burning Early break Early break to limit Tencerature unit 'F © 'C	Set Oock Deer Memory

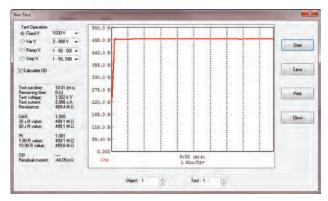
DESCRIPTION

Clear and straightforward set up of parameters.

CATALOG NO.

 Image: Description of the second of the s

Standard and customized reports generated from DataView' software.



Real-time display of measurement results.

2130.31	Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, Ramp, StepV, Variable, Auto DAR/ PI/DD, DataView* software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, 15kV, Ramp, StepV, Variable, Auto DAR/PI/DD, DataView [°] software)
Accessories/Replacem	ent - available on website store from www.aemc.com
2151.18	Lead - One Shielded Safety Lead (black) 25 ft w/Hippo Clips (15kV)
2151.19	Lead - One Shielded Safety Lead (blue) 25 ft w/Hippo Clips (15kV)
2151.20	Lead - One Shielded Safety Lead (red) 25 ft w/Hippo Clips (15kV)
2151.21	Lead - One Shielded Safety Lead (black) 45 ft w/Hippo Clips (15kV)
2151.22	Lead - One Shielded Safety Lead (blue) 45 ft w/Hippo Clips (15kV)
2151.23	Lead - One Shielded Safety Lead (red) 45 ft w/Hippo Clips (15kV)



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SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

MICRO-OHMMETERS 10A

MODEL 6240

Auto calculates resistance from $5\mu\Omega$ to 400Ω with resolutions down to $1\mu\Omega$

SPECIFICATIONS

Special	
product	
features	

o · ·

MODEL	6240									
Range	4000μΩ	4000μΩ 40mΩ 400mΩ 4000mΩ 40Ω 400Ω								
Accuracy		±0.25% of Reading ±2cts								
Resolution	1μΩ	1μΩ 10μΩ 0.1mΩ 1mΩ 10mΩ 100mΩ								
Test Current	10A	1A	1A	100mA	10mA	10mA				
Max. Inductive Load	0 to 5 H									
Memory	Stores up to 99 test results									
Power Source	F	Rechargeable	e 6V, 8.5Ah Nil	MH battery pa	ack (included	1)				







ACCESSORIES (MODEL 6255)

KELVIN CLIPS, SET OF TWO

Catalog #1017.84 (included) (10A - Hippo) 10ft Catalog #2118.70 (optional) (10A -Hippo) 20ft

DESCRIPTION



KELVIN CLIPS, SET OF TWO Catalog #2118.79 (optional) (1-10A) 10ft Catalog #2118.80 (1-10A) 20ft



KELVIN PROBES, SET OF TWO

Catalog #2118.77 (optional) (10A - spring loaded) 10ft Catalog #2118.78 (10A - spring loaded) 20ft



2129.80	Micro-Ohmmeter Model 6240 (10A)	
Accessories/Repla	cement - available on website store from www.aemc.com	
1017.84	Kelvin Clips 10ft (10A – Hippo)	
2118.70	Kelvin Clips 20ft (10A – Hippo)	
2118.73	Kelvin Probes 10ft (1A, Spring Loaded)	
2118.74	Kelvin Probes 20ft (1A, Spring Loaded)	
2118.75	Kelvin Probes Pistol Grip (10A – Spring Loaded), 10ft	
2118.76	Kelvin Probes Pistol Grip (10A – Spring Loaded), 20ft	
2118.77	Kelvin Probes (10A – Spring Loaded), 10ft	
2118.78	Kelvin Probes (10A – Spring Loaded), 20ft	
2118.79	Kelvin Clips 10ft (1-10A) Replacement for Cat #2118.71	
2118.80	Kelvin Clips 20ft (1-10A) Replacement for Cat #2118.72	





cover closed

- Reliable low resistance measurements from $5\mu\Omega$ to 400Ω
- Four-terminal Kelvin resistance measurement . eliminates test lead resistance
- 10A test current 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 power cord and isolated USB cable
- Includes FREE DataView[®] software for data retrieval, . real-time display, analysis and report generation



power cord, two spare fuses (12.5A), NiMH rechargeable battery pack, and USB drive supplied with product user manual and DataView® software.

OPTICAL USB CABLE Catalog #2135.41

CATALOG NO.

KELVIN PROBES, SET OF TWO Catalog #2118.73





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cover oper

Measure from $1\mu\Omega$ (0.1 $\mu\Omega$ resolution) to 2500.0 Ω Test current selection of 1mA, 10mA, 100mA, 1A and

RTD temperature probe to check tested sample

Automatic and manual temperature correction

Selectable inductive or resistive test modes

Large multi-line electroluminescent display

Rugged, double insulated watertight case

Automatic multiple test mode (multiple tests without

Includes RS-232 to USB 2.0 cable and AC line cord

Includes FREE DataView[®] software for data retrieval,

real-time display, analysis and report generation

Two programmable alarm set points Stores up to 1500 test results

Local or remote test setup and control

Internal rechargeable batteries

conduct up to 5000 - 10A tests

MICRO-OHMMETERS 10A

MODEL 6255

Accurate results within 0.05%

SPECIFICATIONS

MODEL				6255					
Range	5.0000 mΩ	25.000 mΩ	250.00 mΩ	2500.0 mΩ	25.000 Ω	250.00 Ω	2500.0 Ω		
Accuracy	±0.15% of Reading +1.0μΩ	±0.05% of Reading + 3μΩ	±0.05% of Reading + 30μΩ	±0.05% of Reading + 0.3mΩ	±0.05% of Reading + 3mΩ	±0.05% of Reading + 30mΩ	±0.05% of Reading + 300mΩ		
Resolution	0.1μΩ	1μΩ	10μΩ	0.1mΩ	1mΩ	10mΩ	100mΩ		
Test Current	10A	10A	10A	1A	100mA	10mA	1mA		
Measurement Mode		Selectable: Inductive (continuous test), Resistive (instantaneous test) or Auto (multiple tests)							
Metal Type Alpha		Selectable: copper, aluminum or other metal Programmable from 000.00 to 99.99							
Alarms		Two – p	rogrammab	le set points	from 0.0 to 2	2500.0Ω			
Memory	S	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		Recharg	eable 6V, 8.5	Ah NiMH ba	ttery pack (ii	ncluded)			
Battery Life			Approxir	nately 5000	10A tests				

Special product features









PRODUCT INCLUDES

RS-232 D89 F/F 6FT NULL MODEM CABLE (Model 6255 only) Catalog #2119.45

RS-232 TO USB ADAPTER

(Model 6255 only) Catalog #5000.60

KELVIN PROBES PISTOL GRIP, SET OF TWO (optional)

Catalog #2118.75 (10A - spring loaded) 10ft Catalog #2118.76 (10A - spring loaded) 20ft

cover closed

Selectable metal types

pressing the test button)

FEATURES

(optional)

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KELVIN PROBES, SET OF TWO

Catalog #2118.73 (included) (1A - spring loaded) 10ft Catalog #2118.74 (optional) (1A - spring loaded) 20ft



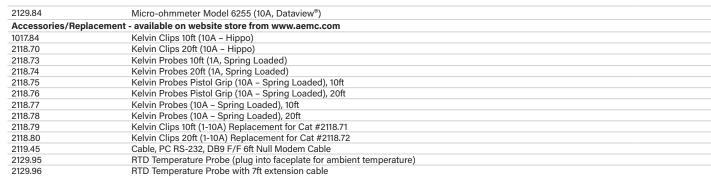
RTD TEMPERATURE PROBE

(optional for Model 6255 only) Catalog #2129.95 RTD probe plugs into faceplate Catalog #2129.96 RTD probe w/7ft extension cable



CATALOG NO.

DESCRIPTION





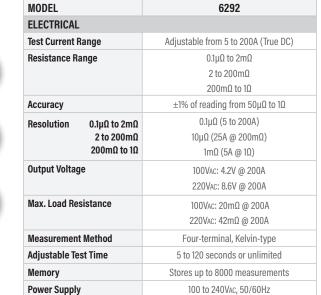
MICRO-OHMMETERS

MODEL 6292

Programmable test currents and test duration with data storage and report generation using included application software

SPECIFICATIONS

Special product features



ACCESSORIES

CURRENT PROBE MODEL MR6292 Catalog #2129.86 (optional)

PRODUCT INCLUDES

Accessory Bag, 2 25ft Kelvin Test Leads w/ Hippo Clamp (200A), 1 Green Ground Lead w/ Clamp, USB Cable, Power Cord, User manual, DataView^{*} software

USB DRIVE

USB drive supplied with DataView' software and user manual.

CATALOG NO.

DESCRIPTION

2129.83	Micro-Ohmmeter Model 6292 (200A, 120/230V, DataView* software)
Accessories/Re	eplacement - available on website store from www.aemc.com
2129.72	Lead - Set of 2 25ft Kelvin Leads with Hippo Clamp (200A)
2129.73	Lead - Set of 2 50ft Kelvin Leads with Hippo Clamp (200A)
2129.86	Current Probe Model MR6292
5000.40	110V US Power Cord





FEATURES

- Adjustable test currents from 5 to 200A
- Programmable test duration from 5 to 120 sec
- BSG Ground Test with optional current probe
- Accurately measures low contact resistance with test currents up to 200A
- Measures resistances from 0.1 $\mu\Omega$ to 1 Ω
- Low resolution of $0.1 \mu \Omega$
- Cooling system to improve the number of sequential tests that can be performed
- Backlit display
- Measures objects with both sides grounded
- Stores up to 8000 test results
- Direct printout of measurement results using DataView[®] software and a PC
- Rugged and water-resistant case







SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

OSCILLOSCOPES HANDSCOPE

MODEL 0X5042

One of the few oscilloscopes on the market with isolated channels that fit into one hand

SPECIFICATIONS







INTERFACE	
Display	3.5" color TFT LCD screen; Resolution 320 x 240 - LED backlighting
Commands	Direct adjustments on front panel & on-screen menus via browser (principal & secondary without "hidden menus")
Display Mode	2500 real acquisition points on screen
Display of Curves on Screen	2 curves + 2 references + memory trace or mathematical calculation
Integrated Interactive	11 languages: French, English, German, Spanish, Italian, Swedish,
Help Function	Romanian, Russian, Finnish, Polish, Dutch
OSCILLOSCOPE MODE	
Vertical Deflection	
Bandwidth	40MHz
Bandwidth Limiter	1.5MHz, 5kHz
Number of Channels	2 totally isolated channels
Input Impedance	$1M\Omega \pm 0.5\%$, approx. 17pF
Maximum Input Voltage	600V CAT III - Derating -20dB per decade from 100kHz
Vertical Sensitivity	5mV to 200V/div
HORIZONTAL DEFLECTION	
Sweep Speed	25ns/div to 200s/div - Roll Mode from 100ms to 200s/div
Horizontal Zoom	Zoom factor: x1, x2, x5
TRIGGERING	
Mode	Automatic, triggered, one-shot & triggered Roll
Туре	Edge, pulse width (20ns – 20s)
Coupling	AC or DC (depending on the coupling of the triggering channel) HF, LF or noise rejection
Sensitive	≤ 1.2 divisions p-p up to 40MHz
DIGITAL MEMORY	
Maximum Sampling Rate	2GS/s in ETS mode - 50MS/s in one-shot mode on each channel
Vertical Resolution	9 bits
Memory Depth	2500 points per channel
User Storage	2MB for storing files: trace (.trc), text (.txt), configuration (.cfq), image files (.bmp)
Glitch Mode	Duration ≥ 20ns – 1250 min/max pairs
Display Modes	Envelope, Averaging (factors 2 to 64) and XY (vector)
Other Functions	
Math Functions	Channel inversion, addition, subtraction, multiplication and division (adjustable scaling)
Cursor Measurement	2 cursors: V, T, dV, dt simultaneously – 4-digit display resolution
Automatic Measurement	18 time or level measurements and phase measurement
MULTIMETER MODE	· · · · · · · · · · · · · · · · · · ·
General Specifications	2 channels, 8000-count display + min/max bargraph - Graphic recording of 2700 measurements (5min to 1 month)
Operating Modes	Absolute or relative display (absolute, deviation, ref, ref%) – Monitoring (instantaneous, min, max, Avg)
AC, DC & AC+DC Voltages	Ranges from 600mV to 600Vrms, 800mV to 800Vbc – accuracy for Vbc \pm 1% reading+20D –50kHz bandwidth
Resistance	Range from 80 Ω to 32M Ω - accuracy ±2% reading + 10D -10ms quick continuity test
Capacitance	Ranges from 5nF to 5mF – basic accuracy $\pm 2\%$ reading + 10D
Other Measurements	Frequency, rotation speed, 3.3V diode test, temperature measurement (with K-type thermocouple or infrared probe)
POWER	
Measurements	Single-phase and balanced three-phase active power values (with or without neutral), simultaneous display of current
HARMONIC ANALYZER MODE	
Multi-Channel Analysis	2 channels, 31 orders, fundamental frequency from 40 to 450Hz
Simultaneous Measurements	Total VRMS, THD and selected order (% fundamental requency from 40 to 450H2
GENERAL	
Screenshots	Up to 100 files in standard ".bmp" format, viewable on the instrument
PC Communication	Isolated optical USB interface "SX-Metro" PC application software (included)
Power Supply	6 LR6 or 6AA NiMh batteries – Battery life up to 8hrs 30min Universal line adapter isolated from the channels – Quick charging in 2hrs 30min
Safety/EMC	Safety according to IEC61010-1 Ed3 – 600V CAT III, EMC according to EN61000-3, 2001 & EN61326-1, 2006



NEW!

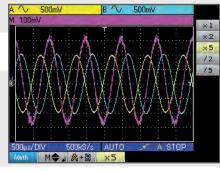
HIGH PERFORMANCE

Functional Displays



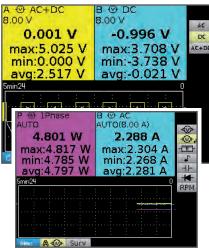
FEATURES

- Two isolated channels
- Three instruments in one
- 40MHz oscilloscope
- Double 8000-count TRMS multimeter / Power analyzer
- Harmonic analyzer
- 3.5" color LCD screen LED backlighting technology
- Integrated interactive multilingual help function
- 2MB recording data
- Store graphic recordings of 2700 measurements (5 min to 1 month)
- Communication via isolated USB SCPI protocol

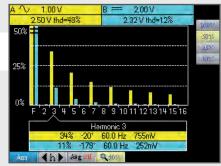


Automatically displays measurements for both isolated channels from your choice of 19 measurement types.

TWO INDEPENDENT 8000-COUNT TRMS DIGITAL MULTIMETERS

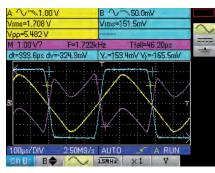


HARMONIC ANALYZER



Measures two channels of individual harmonic content up to the 31st harmonic.

STORAGE COMMUNICATION & PC SOFTWARE



View real-time measurements on your PC, configure the Handscope, export data to spreadsheet using the SX-Metro included software.

KITS INCLUDE

2150.21

Meter, small classic tool bag, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, color-coded Probes (red/black), BNC Adapter, 2 Probe 10:1 600V BNC male, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

2150.22

Meter, field case, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, Color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN251T, MiniFlex* Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

2150.23

Meter, field case, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Colorcoded Alligator Clips (red/black), Set of 2, Color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN379T, MiniFlex' Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.



Shown: Model 2150.22 and 2150.23

CATALOG NO.	DESCRIPTION		
2150.21	Handscope Portable Oscilloscope Model OX5042		
2150.22	Handscope Model OX5042 w/MN251T & MF 3000-24-1-1 {BNC Output}		
2150.23	Handscope Model OX5042 w/MN379T & MF3000-24-1-1 (BNC output; Low AC current measurement)		
AEMC [®]	Technical Assistance (800) 343-1391	www.aemc.com	99





MODEL MN251T & MN379T

RANGE 0.05 TO 240A MODEL #251T

RANGE 0.005 TO 120A MODEL #MN379T

SPECIFICATIONS

	MN251T	MN379T	
ELECTRICAL			
Nominal Range	200A	5A / 100A	
Measurement Range	0.5 to 240A	0.005 to 6A; 0.1 to 120A	
Accuracy	3% of Reading @ 5A; 1% of Reading @ 200A 1% of Reading @ 5A; 1% of Reading @ 100A		
Phase Shift	≤2.5° @ 20A / ≤2.5° @ 100A	≤4° @ 5A / ≤2.2 @ 100A	
Overload	240A for 10 min ON, 30 min OFF		
Frequency Range	40 to 10kHz		
Limit Operating Conditions	200A permanently to 1kHz; Derating above 3kHz: 200A x (1/0.333F), F in kHz		
Working/Common Mode Voltage	600Vrms		
Output Termination	10ft (~3m) BNC Lead		
Output Signal	1mV/AAC (200mV @ 200A)	200mV/A AC (1V @ 5A) & 10mV/A AC (1V @ 100A)	
MECHANICAL		,	
Operating Temperature	14° to 131°F (-10° to 55°C)		
Storage Temperature	-40° to 158°F (-40° to 70°C)		
Operating Relative Humidity	10 to 35°C (50 to 95°F) 85% RH (without roll-off above 35°C (95°F)		
Jaw Opening	0.83" (21mm)		
Maximum Conductor Size	0.78" (20mm)		
Dimensions	5.47 x 2.00 x 1.18" (139 x 51 x 30mm)		
Weight	6.5 oz (180g)		
Polycarbonate Material	Polycarbonate with fiberglass charge, UL94 V0		
SAFETY			
Electrical	EN 61010-2-32		
Double Insulation	Yes		
CE Mark	Yes		

CE 🗆 Trus

FEATURES

- Small, compact size
- True RMS measurements
- Large jaw opening accommodates conductor sizes up to 250MCM
- 10 foot leads makes measurement in hard to reach areas possible
- 40Hz to 10kHz response

MINIFLEX[®] 3000-14-1-1 & 3000-24-1-1 **SPECIFICATIONS**

	3000-14-1-1	3000-24-1-1
ELECTRICAL		
Range	3000A	
Signal Output	1mV/A	
Frequency Range	10Hz to 20kHz with current derating	
Influence Of Conductor Positioning	1.5% typical, 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 (included)	
MECHANICAL		
Sensor Diameter	Ø 0.2 (5mm)	
Sensor Length	14" (~355mm)	24" (~609mm)
Max Conductor Size	4.94" (~100mm)	8" (~190mm)
Connection Cable Length	10ft (~3.04M)	
Drop Test	Per IEC 68-2-32	
Vibration	Per IEC 68-2-6	
Mechanical Shock	Per IEC 68-2-27	
Weatherproofing	IP 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 6 working voltage de operating: 0 to 39	rating above; Non-
SAFETY	,	
Safety Rating	EN 61010, 1000V C	AT III; 600V CAT IV



FEATURES

24" (~60cm)

- True RMS Measurements 14" (~35cm) sensor included,
- MODEL #3000-14-1-1 optional

RANGE 5 TO 3000A MODEL #3000-24-1-1 included in kit

- ((回

- sensor optional
- 10 foot (~3m) leads makes measurement in hard to reach areas possible Measurement range of 0.5 to 3000Arms
- Accuracy ±1% of Reading ±0.25A
- No core saturation or damage if measured circuit is overloaded
- 20kHz frequency response
- Low phase shift for power measurements
- Insensitive to DC: measures only the AC component on DC + AC signals
- Excellent linearity
- 9V Alkaline battery typically provides 150 hrs of continuous operation





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

POWER QUALITY ANALYZERS, METERS & LOGGERS POWER QUALITY METER

8220

MODEL 8220

A measurement tool for electrical parameters and distribution network disturbances

SPECIFICATIONS

MODEL

Special product features

MODEL	0220
ELECTRICAL	
Voltage (TRMS)	Phase-to-Phase: 660V; Phase-to-Neutral: 600V
Current (TRMS)	MN Clamp: 0.2 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, kVA, 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 totaling up to 99 snapshots 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	1.9lbs (0.88kg)
Safety Rating	EN 61010, 600V CAT III, IP54, Pollution Degree 2

(1)Crest factor at 6500 = 1

METERS INCLUDE

8220

Meter, 10ft. color-coded voltage leads and alligator clips (red/black), optical USB cable, six 1.5V batteries, two safety test probes, carrying bag, and USB drive supplied with DataView* software and user manual.

8230

Meter, 10ft. color-coded voltage leads and alligator clips (red/black), optical USB cable, NiMH battery, 110V US wall charger, carrying bag, and USB drive supplied with DataView⁵ software and user manual.

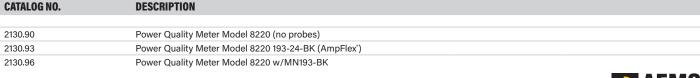
SEE PAGES 112 & 113 FOR MORE OPTIONAL ACCESSORIES





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, kVA, kvar)
- Energy metering (kAh, kvarh, 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 ${\rm 50}^{\rm th}$ harmonic
- The Max and Min RMS measurements are calculated every half-period
- · 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
- · Operates on batteries or optional power adapter
- Download stored data snapshots to DataView[®] software via optical USB cable (included)
- Includes FREE DataView[®] software for configuring data retrieval, real-time waveform display, analysis and report generation



102 www.aemc.com







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, kVA, kvar)
- Energy metering (kAh, kvarh, 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 cable (included)
- Captures up to 4096 alarm events from up to 10 different thresholds
- Displays and records up to 17 different power quality parameters
- Includes free DataView[®] software for configuring data retrieval, real-time waveform display, analysis and report generation
- The Max and Min RMS measurements are calculated every half-period

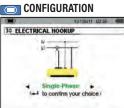
POWER QUALITY ANALYZERS, METERS & LOGGERS SINGLE-PHASE POWER QUALITY ANALYZER

POWERPAD° JR. MODEL 8230

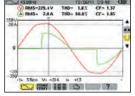
Measure and carry out diagnostic work and power quality work on single- or three-phase balanced load networks

SPECIFICATIONS

MODEL	8230
ELECTRICAL	
Voltage (TRMS)	Phase-to-Phase: 660V; Phase-to-Neutral: 600V
Current (TRMS)	MN Clamp: 0.2 to 6A/120A or 2 to 240A MR Clamp: 10 to 1000Acc, 10 to 1400Adc 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 Shjft, 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 (included) 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) full color LCD digital & graphical display with adjustable brightness & contrast
Dimensions	8.3 x 4.3 x 2.4" (211 x 108 x 60mm)
Weight	1.9lbs (0.88kg)
Safety Rating	EN 61010, 600V CAT III, IP54, Pollution Degree 2



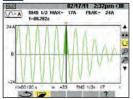












Special product

features

In... HARMONICS MODE



CATALOG NO.

DESCRIPTION

2130.81	PowerPad' Jr. Model 8230 (no probes)
2130.82	PowerPad Jr. Model 8230 w/MN93-BK
2130.87	PowerPad [*] Jr. Model 8230 w/MN193-BK



POWER QUALITY ANALYZERS, METERS & LOGGERS POWER & ENERGY LOGGERS PEL 100 SERIES

MODEL PEL 102

Monitor your energy usage & costs locally or from anywhere in the world!

FEATURES

Special

product

features

- Simple-to-use, single-, dual- (split-phase) and three-phase (Y, Δ) power & energy loggers
- Designed to work in 1000V CAT III and 600V CAT IV environments and fits in many distribution panels
- Power measurements: kVA, kW and kvar
- Energy measurements: kVAh, kWh (source, load) and kvarh (quadrant indication)
- Updated features in DataView[®] software for configuring real-time communication with a PC and report generation with pre-defined or user defined templates
- 8GB SD card supplied, can be upgraded up to 32GB
- USB, LAN, Ethernet and Bluetooth (Class 1 wireless communication, up to 300ft away)
- Satisfies the monitoring requirements of NEC Code 220.87
- Power adapter allows the PEL 102 to be powered from a phase measurement input
- Provides all the necessary functions for power and energy data logging for 50Hz, 60Hz, 400Hz and DC distribution systems
- Automatic recognition of the connected current sensors/probes
- Magnetic case can be mounted inside power panel





CAT #2137.51 INCLUDES

PEL 102 KIT

Small classic tool bag, three MiniFlex® MA193-10-BK sensors, 5ft USB cable, four black test leads and alligator clips, power cord, twelve colorcoded ID markers, safety data sheet, compliance sheet, SD-Card with USB-SD-Card reader, quick start user quide, and USB drive supplied with DataView® software and user manual.



ANDROID[™] APP AVAILABLE FOR PEL 102, 103 & 105!

Configure Measurements and Recordings

Display Data in Real-Time

For Use on Devices with an Android Platform





POWER QUALITY ANALYZERS, METERS & LOGGERS POWER & ENERGY LOGGERS PEL 100 SERIES





FEATURES

- Simple-to-use, single-, dual- (split-phase) and three-phase (Y, Δ) power & energy loggers
- Designed to work in 1000V CAT III and 600V CAT IV environments and fits in many distribution panels
- Power measurements: kVA, kW and vkar
- Energy measurements: kVAh, kWh (source, load) and kvarh (quadrant indication)
- Updated features in DataView^{*} software for configuring real-time communication with a PC and report generation with pre-defined or user defined templates
- 8GB SD card supplied, can be upgraded up to 32GB
- USB, LAN, Ethernet and Bluetooth (Class 1 wireless communication, up to 300ft away)
- Satisfies the monitoring requirements of NEC Code 220.87
- PEL 103 can be configured from front panel, DataView[®] control panel or the FREE Android[™] application
- Provides all the necessary functions for power and energy data logging for 50Hz, 60Hz, 400Hz and DC distribution systems
- Automatic recognition of the connected current sensors/probes
- Magnetic case can be mounted inside power panel
- Supports 17 network configurations

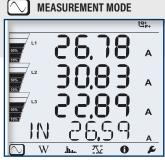


MODEL PEL 103



Hook up, voltage and current ratios and aggregation period can be configured from the front panel of the PEL 103.

Large Functional Displays



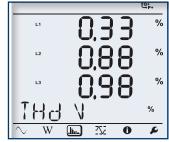
Real-time updates are displayed for voltage, current, power, frequency, power factor and tangent.

🔼 MAX MODE



Max values for voltage, current (including neutral current), power and harmonics.

HARMONIC MODE



Total Harmonic Distortion (THD) can be displayed by phase or phase to phase. Neutral current THD can also be displayed.



CAT #2137.52 INCLUDES

PEL 103 KIT (W/ LCD)

Small classic tool bag, three MiniFlex^{*} MA193-10-BK sensors, 5ft USB cable, four black test leads and alligator clips, power cord, twelve color-coded ID markers, safety data sheet, compliance sheet, SD-Card with USB-SD-Card reader, quick start user guide, and USB drive supplied with DataView^{*} software and user manual.

*ADAPTER SOLD SEPARATELY

POWER QUALITY ANALYZERS, METERS & LOGGERS POWER & ENERGY LOGGERS PEL 100 SERIES

MODEL PEL 105

Three-Phase Power and Energy Logger Watertight...great for outdoor use!

CAT #2137.59 INCLUDES

PEL 105 Kit

Extra-large tool bag, accessory pouch, 5ft USB cable, five 10ft black voltage leads (watertight cap) with alligator clips, power adapter 110/230V with US power cord, four water-tight AmpFlex^{*} 196A-24-BK (not included with Cat. #2137.57), 9.6V NiMH battery, 8GB SD-card, USB SD-card reader, twelve color-coded input ID markers, quick start guide, and a USB drive supplied with DataView^{*} software and user manual.



DESCRIPTION

ACCESSORIES

POLE MOUNTING KIT Catalog #2137.82 (optional) Set of two, with hardware

CATALOG NO.

106 www.aemc.com







FEATURES

- Simple-to-use, single-, dual- (split-phase) and three-phase (Y, $\Delta)$ power & energy loggers
- Designed to work in 1000V CAT III and 600V CAT IV environments
- Supports 17 different network connections
- Power measurements: kVA, kW and kvar
- Energy measurements: kVAh, kWh (source, load) and kvarh (four quadrant indication)
- Includes DataView^{*} software for configuring, real-time display, analysis and report generation
- 8GB SD card supplied, can be upgraded up to 32GB
- USB, LAN, Ethernet, Wi-Fi and Bluetooth communication (Class 1 wireless communication, up to 300ft away)
- Satisfies the monitoring requirements of NEC Code 220.87
- PEL 105 can be configured from front panel, DataView[◦] control panel or the FREE Android[™] application
- Provides all the necessary functions for power and energy data logging for 50Hz, 60Hz, 400Hz and DC distribution systems
- · Automatic recognition of the connected current sensors/probes
- · Powers directly from phase input
- Pole mountable

2137.51	Power & Energy Logger Model PEL 102 (no LCD w/3 MA193-10-BK Sensors)
2137.52	Power & Energy Logger Model PEL 103 (with LCD w/3 MA193-10-BK Sensors)
2137.57	Power & Energy Logger Model PEL 105 w/o Sensors (Watertight IP67)
2137.59	Power & Energy Logger Model PEL 105 w/4 196A-24-BK (AmpFlex° – Watertight IP67)
2137.61	Power & Energy Logger Model PEL 102 (no LCD or Sensors)
2137.62	Power & Energy Logger Model PEL 103 (with LCD, no Sensors)
	placement - available on website store from www.aemc.com See pages 112 & 113 al current probes
2137.77	Adapter-Power Adapter for use with Models PEL 102 & PEL 103
2137.82	Pole Mounting Kit



SPECIFICATIONS

MODELS		PEL 102, PEL 103 & PEL 105				
GENERAL						
Sampling Frequency	128 samples per cycle; 50/60Hz (16 samples/cycle 400Hz)					
Data Storage Rate	1 per second (200ms also available on PEL 105)					
Demand Period Storage Rate	User selectable (1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60 minutes)					
Recorded Parameters Single- and Poly-Phase)	V, I, W, VA, var, PF, Tan, Wh, VAh, varh, THD (V and I), Individual harmonics (from 1 through 50 per phase); Crest Factor (CF), Cos f / DPF					
Event Log	Tracks and records status changes and error messages along with recorded data					
Front Panel Indicator LEDs		0 0				
Storage Capacity	Bluetooth active, recording in progress, phase connection reversal, overload, battery charging and SD Card status 86B SD card included / SD cards up to 326B formatted FAT32 are supported					
NPUTS Voltage	PEL 102/103 – 3 input channels; PEL 105 – 4 input channels via 4mm safety banana jacks					
Current	PEL 102/103 - 3 input channels; PEL 105 - 4 input channels via unit safety banana jacks PEL 102/103 - 3 input channels; PEL 105 - 4 input channels via custom 4 pin jacks that accept AEMC [*] probes and sensors					
LECTRICAL		j – 4 input channels via custom 4 pin jacks t	nat accept Acine probes and sensors			
OLTAGE MEASUREMENT	RANGE	DESOLUTION*	ACCURACY*			
		RESOLUTION*				
50/60Hz	42.5 to 69Hz	-	±0.1Hz			
ingle-Phase RMS Voltages	10 to 1000Vrms	0.1V	±0.2% Rdg ±0.2V			
hase-to-Phase RMS Voltages	17 to 1700Vrms	0.1 to 1V	±0.2% Rdg ±0.4V			
400Hz	340 to 460Hz	- 0.11/				
ingle-Phase RMS Voltages	10 to 600Vrms	0.1V	±1% Rdg ±1V			
hase-to-Phase RMS Voltages	17 to 1200Vrms	0.1 to 1V	±1% Rdg ±1V			
DC DC	100 to 1000V	0.1V	$\pm 1\%$ Rdg $\pm 3V$ (typical)			
T Ratios	Programmable from 50V to 650,000V		0.01 to 0.1V			
CURRENT MEASUREMENT Iominal range for current probes upplied with kit. See chart on 'ages 26 and 27 for other probes	A193*** (PEL 102/103) 200mA to 10,000A	196A*** (PEL 105) 200mA to 10,000A	_			
	Drog	rommable from 1:1 to 25 000:1 (probe depend	lant)			
T Ratios		rammable from 1:1 to 25,000:1 (probe depend				
POWER MEASUREMENTS	RANGE	RESOLUTION*	ACCURACY*			
ctive Power (P)*	-2 to 2GW	0.001W	±0.5% Rdg ±0.005% Pnom			
Reactive Power (Q)*	-2 to 2Gvar	0.001var	±1% Rdg ±0.01% Qnom			
Apparent Power (S)*	0 to 2GVA	0.001VA	±0.5% Rdg ±0.005% Snom			
Power Factor	-1 to 1	0.001	±0.05			
Tangent µ (active/reactive power ratio)	-3.2 to 3.2	0.001	±0.02			
ENERGY MEASUREMENTS	RANGE	RESOLUTION*	ACCURACY*			
Active Energy (EP)	0 to 4 x 10	1Wh	±0.5% Rdg			
Reactive Energy (EQ)	0 to 4 x 10	1varh	±2% Rdg			
Apparent Energy (ES)	0 to 4 x 10	1Vah	±0.5% Rdg			
HD		±655%				
ndividual Harmonics	1:	to 50 displayed in percentage; 1 to 7 at 400H	Ζ			
xternal Supply		110V/250V (10%) @ 50/60Hz; 400Hz				
Power From Phase Measurement		ptional Power Adapter Cat #2137.77; PEL 105				
Back-Up Power Source/Charge Time	Recharge	able 8.4V NiMH battery pack / Approximately	y 5 hours			
Battery Life		30 minutes minimum, 60 minutes typical				
MECHANICAL						
Communication Ports	USB 2.0, Ethernet (RJ45), Wireless Bluetooth Class 1 **/ Wi-Fi (PEL 105 only) 10.08 x 4.92 x 1.46" (256 x 125 x 37mm) / 2.20lbs (1ka) (PEL 102 & PEL 103);					
Vimension/Weight	9.8 x 7.	.46" (256 x 125 x 37mm) / 2.201bs (1kg) (PEL 10 8 x 2.6" (250 x 200 x 67mm) / 8.81bs (4kg) (PE lated, rubber over-molded, polycarbonate UL	EL 105)			
DISPLAY			שלי אוומוכט.			
	9 C9 v 9 10 ¹¹ (C7 v EE v-v-) {	line meneobrome beaulit I CD with a finate	his brightnoop and contract			
hisplay Type for Model PEL 103 / PEL 105	2.63 x 2.16" (67 x 55mm), tour	line, monochrome, backlit LCD with adjusta	DIE Drightness and contrast			
NVIRONMENTAL / SAFETY						
perating Temperature/Relative Humidity		up to 85%; 32° to 108.5°F (0° to 42.5°C) / up to				
Storage Temperature Safety Rating/CE Rating	Complies with IEC 61010-1: Ed3,	50°C) with batteries; -4° to 158°F (-20° to 70°C and IEC 61010-2-030: Ed1 for 1000V CAT III / 6 000V CAT IV (PEL 105), Pollution Degree 2 / Y	00V CAT IV (PEL 102 & PEL 103)			
Index of Protection		iting (PEL 102 & PEL 103), / IP67 with cover clo				
Index of Protection	IP54 non opera	iting (PEL 102 & PEL 103) / IP6/ with cover cli	osed (PEL 105)			

* Maximum value is current probe dependent.

** Computers with Class II Bluetooth will restrict range to 40ft. Computers without Bluetooth will require a Class I or Class II Bluetooth radio adapter. *** Maximum current reduced by a factor of 2 for 400Hz fundamental frequency.



POWER QUALITY ANALYZERS, METERS & LOGGERS THREE-PHASE POWER QUALITY ANALYZER

POWERPAD[®] III MODEL 8333

SD card for trend recordings, and up to 12 snapshot, 51 captured transients and 4000 alarm events

Four voltage and three current input terminals

8333

SPECIFICATIONS

MODEL



Input Terminals	4 voltage / 3 current
Inputs	3 voltage / 3 current
Voltage (TRMS AC+DC)	2 to 1000V
Voltage Ratio	up to 500kV
Current (TRMS AC+DC)	MN93: 500mA to 200Aac; MN193: 0.005 to 100Aac SR193 Clamp: 1A to 1000Aac AmpFlex [®] or MA193 Clamps: 100mA to 10000Aac MR193 Clamp: 1A to 1300Aac/dc SL261 Clamp: 50mA to 100Aac/dc Current Ratio: up to 60kA
Frequency (Hz)	40 to 69Hz
Distribution Systems	1P 2W, 1P 3W, 2P 2W, 2P 3W, 2P 4W, 3P 3W, 3P 4W, Split-Phase 2W & 3W & Aron meters
Power Values	W, VA, var, VAD, PF, DPF, cos φ, tan φ
Energy Values	Wh, varh, VAh, VADh
Harmonics	1 st to 50 th , Direction, Sequence; THD: 0 to 50, phase
Transients	up to 51
Flicker (Pst)	Yes
Jnbalance	Yes
ecording	Yes
Alarm Mode	10 types; 4000 recorded
Peak	Yes
Phasor Display	Automatic
Display	Color ¼ VGA TFT screen (320 x 240) diagonal 5.82" (148mm)
Snapshots	12
Electrical Safety	IEC 61010, 1000V CAT III / 600V CAT IV
Protection	IP53
Languages	more than 27
Communication Interface	USB
Battery Life	>13 hrs, 25 hrs in Record Mode
Power Supply	9.6V NiMH rechargeable battery pack (included) External AC supply: 110/230Vac ±10% (50/60Hz)
Dimensions / Weight	9.8 x 7.8 x 2.6" (240 x 180 x 55mm) / 4.3lbs (1.95kg)

ACCESSORIES

PHASE POWER ADAPTER FOR MODELS 8333 & 8336 Catalog #2140.77 (optional)







METER INCLUDES

Four black 10ft voltage leads, 5ft USB cable, four black alligator clips, twelve color-coded input ID markers, NiMH battery, 110/240V power adapter with US power cord, carrying bag, soft carrying pouch, and USB drive supplied with product user manual and DataView® software.



KIT OPTION INCLUDES

AS ABOVE, WITH AMPFLEX° 193 FLEXIBLE CURRENT PROBE (10KA)

Catalog #2136.11 193-24-BK



AS ABOVE, WITH MN193 CURRENT PROBE (5A/100A) Catalog #2136.12, Rated 600V CAT III





Technical Assistance (800) 343-1391







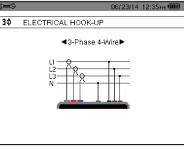
* Registration must take place within 30 days of purchase

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
- Displays and captures voltage, current and power harmonics to 50th order, including direction, in real-time
- Captures transients down to 1/256th of a cycle
- Stores comprehensive data base of logged data
- Phasor diagram display
- kVA, kvar and kW per phase and total
- kVAh, kvarh 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 51 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 FREE DataView[®] software for onfiguring data retrieval, real-time display, analysis and report generation

CATALOG NO.

DESCRIPTION



POWER AND ENERGY MODE

A

1.43 A

+1.43

11.3 xr

11.3 xr

1.06

1.13

1.00

1

A=

(Deg) CONFIGURATION

W

c

THD

PST

LT

N

220.1 Va

+0

1.40

0.27

0.32

4.3 xr

4.3 xr

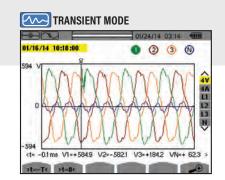
V-

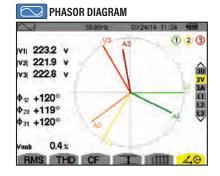
FHL

FK

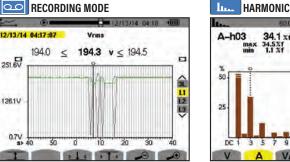
THD CF

Large Color Functional Displays





hus HARMONICS MODE



lan.		60,00	Hz	05/22/14	05:21	
A-h0)3 max min	34.1 xr 34.5 xr 1.1 xr	0	2.8 A THD Ad	-04 36,5 x 0,9	io. if A
50	0	-	-			٦
25-	t					
		1.1				
DC 1		5 7 9	11 13	15 17 19	A 40 4	4

2136.10	PowerPad [*] III Model 8333 (no probes)	
2136.11	PowerPad" III Model 8333 w/3 193-24-BK AmpFlex' Sensors	
2136.12	PowerPad' III Model 8333 w/3 MN193-BK Probes	
Accessories/Repl	lacement - available on website store from www.aemc.com. See pages 112 & 113 for more optional current probes.	
2133.73	Extra Large Classic Tool Bag	
2140.28	AC/DC Current Probe Model MR193-BK	
2140.32	AC Current Probe Model MN93-BK	
2140.33	AC Current Probe Model SR193-BK	
2140.34	AmpFlex Sensor 24" Model 193-24-BK	
2140.35	AmpFlex Sensor 36" Model 193-36-BK	
2140.36	AC Current Probe Model MN193-BK	
2140.40	BNC Adapter for use with SL261 & Models 8220, 8335 & PEL 102/103	
2140.44	Lead, 1 10ft (3m) black lead w/black alligator clip	
2140.48	MiniFlex*Sensor 10" Model MA193-10-BK	
2140.50	MiniFlex*Sensor 14" Model MA193-14-BK	
2140.77	Adapter – Phase Power Adapter for use with PowerPad Models 8333 & 8336	



POWER QUALITY ANALYZERS, METERS & LOGGERS THREE-PHASE POWER QUALITY ANALYZER

POWERPAD[®] III MODEL 8336

SD card for trend data storage and additional memory for up to 50 snapshots, 210 captured transients/inrush and 16,000 alarm events

Five voltage and four current input terminals

8336

5 voltage / 4 current

4 voltage / 4 current

SPECIFICATIONS





METER INCLUDES

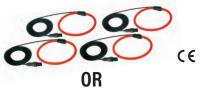
Five black 10ft voltage leads, five black alligator clips, twelve color-coded input ID markers, USB cable, NiMH battery, 110/240V power adapter with US power cord, large classic tool bag, soft carrying pouch, quick start user guide, and USB drive supplied with product user manual and DataView' software.



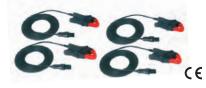
KIT OPTION INCLUDES

AS ABOVE, WITH AMPFLEX[°] 193 FLEXIBLE CURRENT PROBE (10KA)

Catalog #2136.31, 24" rated 600V CAT IV



AS ABOVE, MN193 CURRENT PROBE (5A/100A) Catalog #2136.32, Rated 600V CAT III





<u>)</u>	Current (TRMS AC
RECORDIN	
	Frequency (Hz)
TRANA	Distribution Syste
MOLE	Power Values
To)	Energy Values
	Harmonics

MODEL

Inputs

Input Terminals

Special

product

features

Voltage (TRMS AC+DC)	2 to 1000V
Voltage Ratio	up to 500kV
Current (TRMS AC+DC)	MN93: 500mA to 200Aac; MN193: 0.005 to 100Aac SR193 Clamp: 1A to 1000Aac AmpFlex [°] or MA193 Clamps: 100mA to 10000Aac MR193 Clamp: 1A to 1300Aac/bc SL261 Clamp: 50mA to 100Aac/bc
	Current Ratio: up to 60kV
Frequency (Hz)	40 to 69Hz
Distribution Systems	1P 2W, 1P 3W, 2P 2W, 2P 3W, 2P 4W, 3P 3W, 3P 4W
	and 3p 5W, 2 ½ Element & Aron meters
Power Values	W, VA, var, VAD, PF, DPF, $\cos\mu$, $\tan\mu$
Energy Values	Wh, varh, VAh, VADh
Harmonics	1 st to 50 th , Direction, Sequence; THD: 0 to 50, phase
Transients	up to 210
Flicker (Pst & Plt)	Yes
Inrush Mode	Yes, >10 min
Unbalance	Yes
Recording	Yes
Alarm Mode	40 types; 16,000 recorded
Peak	Yes
Phasor Display	Automatic
Display	Color ¼ VGA TFT screen (320 x 240) diagonal 5.82" (148mm)
Snapshots	50
Electrical Safety	IEC 61010, 1000V CAT III / 600V CAT IV
Protection	IP53
Languages	more than 27
Communication Interface	USB
Battery Life	>13 hrs, 25 hrs in Record Mode
Power Supply	9.6V NiMH rechargeable battery pack (included) External AC supply: $110/230Vac \pm 10\%$ (50/60Hz)
Dimensions / Weight	9.8 x 7.8 x 2.6" (240 x 180 x 55mm) / 4.3lbs (1.95kg)

ACCESSORIES

PHASE POWER ADAPTER FOR MODELS 8333 & 8336 Catalog #2140.77 (optional)







* Registration must take place within 30 days of purchase

FEATURES

- Measurement of TRMS voltages up to 1000Vrms AC/DC for two-, three-, four- or five-wire systems
- Measurement of TRMS currents up to 10,000Arms (sensor dependent)
- 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 41 variables
- Transient detection on all V and I inputs (up to 210)
- 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 and long-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 kVAh, kvarh, kWh & kVADh
- The Max and Min RMS measurements are calculated every half-period
- Includes FREE DataView[®] software for configuring data retrieval, real-time display, analysis and report generation
- 65µs/sample trend recording

3¢ ELECTRICAL HOOK-UP 43-Phase 5-Wire>

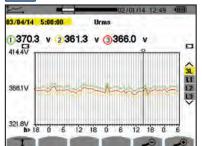
11/11/14 08:43

W Power and Energy Mode

(Dec) Configuration

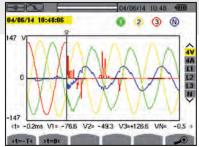
W	5	9.99Hz	12/11/14 04:18	
12	2/11/14 04:18:	35 11		
	0	2	3	
kW Wh	+0.377	+1.540	+1.136	3
kvar Varh	+-0.091 E0000000 +0000000	章+0.137 章000000 \$000000	度+0.105 度0000000 +0000000	MIT
kVA VAh	0.410	1.546	1.141	
W	PF.	5-0 6+		m

Recording Mode



Large Color Functional Displays

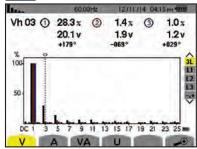




\sub Phasor Diagram



I.... Harmonics Mode



CATALOG NO.	DESCRIPTION
2136.30	PowerPad' III Model 8336 (no probes)
2136.31	PowerPad" III Model 8336 w/4 193-24-BK Sensors
2136.32	PowerPad" III Model 8336 w/4 MN193-BK Probes
Accessories/Replace	ement - available on website store from www.aemc.com. See pages 112 & 113 for more optional current probes.
2133.73	Extra Large Classic Tool Bag
2140.28	AC/DC Current Probe Model MR193-BK
2140.32	AC Current Probe Model MN93-BK
2140.33	AC Current Probe Model SR193-BK
2140.34	AmpFlex*Sensor 24" Model 193-24-BK
2140.35	AmpFlex*Sensor 36" Model 193-36-BK
2140.36	AC Current Probe Model MN193-BK
2140.40	BNC Adapter for use with SL261 & Models 8220, 8335 & PEL 102/103
2140.44	Lead, 1 10ft (3m) black lead w/black alligator clip
2140.48	MiniFlex*Sensor 10" Model MA193-10-BK
2140.50	MiniFlex [*] Sensor 14" Model MA193-14-BK
2140.77	Adapter – Phase Power Adapter for use with PowerPad* Models 8333 & 8336

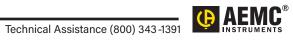


POWER QUALITY ANALYZERS, METERS & LOGGERS OPTIONAL ACCESSORIES

SENSOR TYPE	CURRENT RANGE	ACCURACY (Typical)	TYPICAL Error On µat 50/60Hz	MAX Conductor Size	USED WITH Model	LIMITED Range IF Used With Model	CATALOG NUMBER
MiniFlex [*] MA193-BK *		±1%	0°	2.75"	PEL 102 PEL 103 PEL 105**	8220	2140.48 (10" sensor)
10" or 14" sensor	100mA to 3000Aac	Σ170	U	(70mm)	8333 8336	8230	2140.50 (14" sensor)
MR193-BK	1 to 1000Aac 1 to 1300Adc	±2.5%	-0.80°	1.6" (41mm)	8220 8230 PEL 102 PEL 103 PEL 105** 8333 8336	N/A	2140.28
SR193-BK	1 to 1200Aac	±0.3%	0.2°	2.05" (52mm)	8220 8230 PEL 102 PEL 103 PEL 105** 8333 8336	N/A	2140.33
AmpFlex' 193-BK *	100mA to 12,000Aac	±1%	0°	7.64" (190mm) or	PEL 102 PEL 103 PEL 105**	8220	2140.34 (24" sensor)
24" or 36" sensor				11.46" (290mm)	8333 8336	8230	2140.35 (36" sensor)
AmpFlex' 196A	100mA to 12,000Aac	±2%	0°	5.73" (145mm)	PEL 105	N/A	2140.75 (24" sensor)

* Maximum current reduced by a factor of 2 for 400Hz fundamental frequency.

** Not waterproof with PEL 105.



SENSOR TYPE	CURREN	T RANGE	ACCURACY (TYPICAL)	TYPICAL Error On µ At 50/60Hz	MAX Conductor Size	USED WITH Model	LIMITED RANGE IF USED WITH MODEL	CATALOG NUMBER
MN93-BK	0.5 to	240Aac	±1%	0.8°	0.78" (20mm)	PEL 102 PEL 103 PEL 105** 8333 8336	8220 8230	2140.32
МЛ193-ВК	100A	200mA to 120Aac	±1%	0.75°	0.78"	8220 8230 PEL 102 PEL 103	N/A	2140.36
	5A	5mA to 6Aac	±1%	1.7°	(20mm)	PEL 103 PEL 105** 8333 8336	N/A	2140.30
SL261 **	100A	5 to 100Aac/dc	±4%	±0.5°	0.46"	8220 8230 PEL 102 PEL 103	N/A	1201.51
Battery operated	10A	50mA to 10Aac/bc	±3%	±1°	(11.8mm)	PEL 103 PEL 105** 8333 8336	IV/A	1201.01

NOTE: REFER TO THE POWER METER'S PRODUCT USER MANUAL FOR COMPLETE SPECIFICATIONS.

All current sensors can be used with the PEL 105.

However, only the 196A flexible sensors are waterproof.

CATALOG NO.	DESCRIPTION
Accessories/Replace	ement - available on website store from www.aemc.com
1201.51	AC/DC Current Probe Model SL261 (BNC)
2137.77	Adapter – Power Adapter PEL 102 & PEL 103 only
2140.28	AC/DC Current Probe Model MR193-BK
2140.32	AC Current Probe Model MN93-BK
2140.33	AC Current Probe Model SR193-BK
2140.34	AmpFlex*Sensor 24" Model 193-24-BK
2140.35	AmpFlex*Sensor 36" Model 193-36-BK
2140.36	AC Current Probe Model MN193-BK
2140.37	Adapter - US 110V Power Adapter (eliminates need for batteries) 8220 & 8230 only
2140.40	AC/DC Current Probe BNC Adapter Model SL261 only
2140.48	MiniFlex [®] Sensor 10" Model MA193-10-BK
2140.50	MiniFlex*Sensor 14" Model MA193-14-BK
2140.75	AmpFlex [*] Sensor 24" (watertight - IP67) Model 196A-24-BK
2140.77	Adapter - Phase Power Adapter for use with PowerPad Models 8333 & 8336





SOFTWARE FOR POWER QUALITY ANALYZERS & ENERGY LOGGERS

Configure all functions of the Power Quality Analyzers & Energy Loggers



- Display and analyze real-time data on your PC
- Configure 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 as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms
- Print reports using standard or custom templates you design
- Free updates are available on our website www.aemc.com



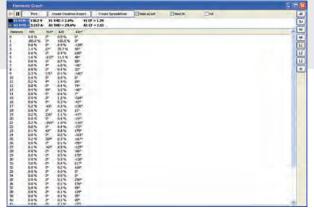
Transient Report

Transient Report

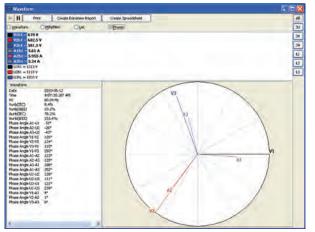
TYPICAL DATAVIEW[®] FUNCTIONAL, DIGITAL & GRAPHICAL DISPLAYS

Setup Instrument Display Alarm Conditions Re		
Reactive values (ver) calculation With Harmonics	Current Sensors and Ratios	nection
Withgut Harmonics Nominal Frequency Still Na Sol Ha	A1: MN93 Probe Cast Sin	de Phase
Volkage Ratios	A2; MN193 Probe Car	- International Action
V1: 1.0 x1000 × / 1000.0	1 /1 *	N. TINDSC
92: 1.0 / 1000 / 1000 0		3-Phase
- V3; 1.0 (000 -) 1000.7		3-Wre
Neutral:		3-Phase 5-Wire
1.0 ×1000 🖌 / 1000.0	Y	
3L+N Same except N has its own ratio	L1+L2+L3+N Separate ratios	
Re-Read from Instrument	Save To File Load Fi	rom File

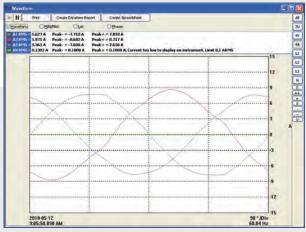
Clear and easy setup of all functions from one tabbed dialog box.



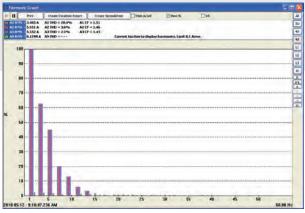
Display harmonics in a text table from harmonic 0 (DC) through the 50th.



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



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



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

Print C	reate DataView Report	Create Spreadsheel
Start Accumulati	ng Rap Aco	omularing
Time Started:	2010-05-12 9:01:23 AM	
Time Ended:	2010-05-12 9:08:28 AM	Phase to Display:
	= 3786	1 Lu
ar	= 284	12
A DC	= -0 = 3798	13
/h to Load	= 450	-
h to Source	= 0	Al
/h DC to Load /h DC to Source	-0	
arh Capacitive to Load	=0	
arh Capacitive to Source	=0	
arh Inductive to Load	= 34	
arh Inductive to Source	= 0	
Ah to Load	= 451	
Ah to Source	= 0	
E	= 0.997	
PF	= 0.997	
an hase Angle V1-A1	= 0.075	

Display power and energy parameters – both instantaneous and total.

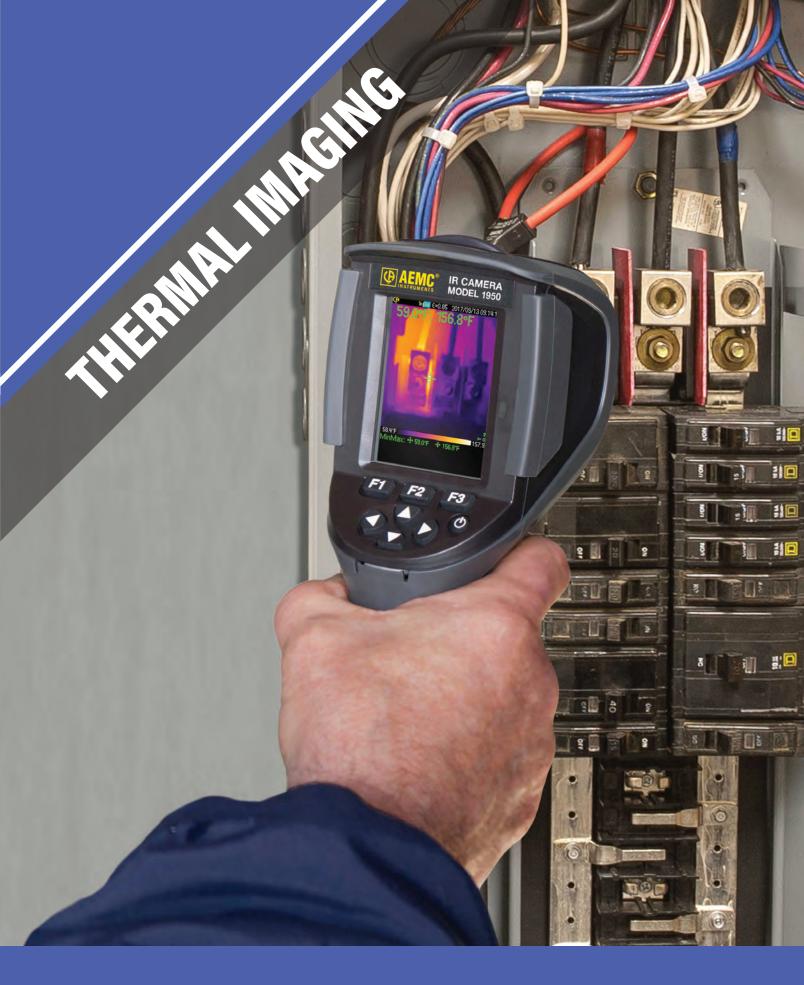


POWER QUALITY ANALYZERS, METERS & LOGGERS SELECTION CHART

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	INPUT Terminals	CHANNELS	RMS VOLTAGE MAX PHASE-TO- NEUTRAL	RMS VOLTAGE MAX PHASE-TO- PHASE	PEAK Voltage Max Phase-to- Neutral	PEAK VOLTAGE MAX PHASE-TO- PHASE	DC VOLTAGE MAX	AC CURRENT MAX (PROBE DEPENDENT)	DC CURRENT MAX (PROBE DEPENDENT)	RATIOS Volt	RATIOS AMPERE
8220	2130.90	1V/1A	1V/1A	600Vrms	660Vrms	850Vpk	935Vpk	600Vdc	6500Aac	1400Adc	Yes	No
8230	2130.81	1V/1A	1V/1A	600Vrms	660Vrms	850Vpk	935Vpk	600Vdc	6500Aac	1400Adc	Yes	No
8333	2136.10	4V/3I	3V/4I	1000Vrms	2000Vrms	1414Vpk	2828Vpk	1200Vpc	10,000Aac	5000Adc	Yes	Yes
8336	2136.30	5V/4I	4V/4I	1000Vrms	2000Vrms	1414Vpk	2828Vpk	1200Vpc	10,000Aac	5000Adc	Yes	Yes
PEL 102	2137.51	4V/3I	3V/3I	1000Vrms	1700Vrms	1414Vpk	2400Vpk	1000Vpc	10,000Aac	5000Adc	Yes	Yes
PEL 103	2137.52	4V/3I	3V/3I	1000Vrms	1700Vrms	1414Vpk	2400Vpk	1000Vpc	10,000Aac	5000Adc	Yes	Yes
PEL 105	2137.57	4V/3I	3V/3I	1000Vrms	1000Vrms	1414Vpk	2400Vpk	1000Vdc	10,000Aac	5000Adc	Yes	Yes

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	DISTRIBUTION SYSTEMS	PHASE ROTATION	WAVEFORM MODE	TRANSIENT MODE	TRUE INRUSH MODE/TYPE/ Duration	ALARM MODE	SNAPSHOT Mode	HARMONIC Mode	TYPE LCD	POWER SOURCE
8220	2130.90	1P-2W 3P-3W DB	Yes, 2-Wire Method	Yes, Realtime through DataView (recordable to PC)	No	Yes (RMS) duration: unspecified	No	Yes (9)	Yes	Backlit LCD	6 x AA batteries or external adapter
8230	2130.81	1P-2W 3P-3W DB	Yes, 2-Wire Method	Yes	No	Yes (RMS) <15 seconds at 60Hz	18 types/ up to 10 active/ 4096 recorded	Yes (8)	Yes	Color LCD	External adapter with internal NiMH battery pack
8333	2136.10	1P-2W, 2P-3W, 3P-3W, 3P-4W	Yes	Yes	Yes	No	10 types/ up to 2 active/ 4662 recorded	Yes (12)	Yes	TFT - 5.7" diagonal 320 x 240 resolution	External adapter with internal NiMH battery pack
8336	2136.30	1P-2W, 1P-3W, 2P-2W, 2P-3W, 2P-4W, 3P-3W, 3P-4W, 3P-5W	Yes	Yes	Yes	Yes (RMS+PEAK & RMS) up to 1 & 10 mins	40 types/ up to 7 active/ 16,362 recorded	Yes (50)	Yes	TFT - 5.7" diagonal 320 x 240 resolution	External adapter with internal NiMH battery pack
PEL 102	2137.51	1P-2W, 1P-3W, 3P-3W D2, 3P-3W	Yes	No	No	No	No	No	Yes	None	External adapter with internal NiMH
PEL 103	2137.52	02, 3P-3W Y2, 3P-3W D3, 3P-3W 03, 3P-3W Y, 3P- 3W DB, 3P-4W Y,	Yes	No	No	No	No	No	Yes		battery pack
PEL 105	2137.57	3P-4W YB, 3P-4W Y2 1/2, 3P-4W D, 3P-4W0D, DC-2W DC-3W, DC-4W	Yes	No	No	No	No	No	Yes	Monochrome LCD	Power phase input or external adapter with internal NiMH battery pack





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

THERMAL IMAGING INFRARED CAMERA

MODEL 1950

Versatile tool for performing infrared thermography Indispensable means for ensuring safety in industrial application









PECIFICATIONS	
MODEL	1950
IR DETECTOR	
Туре	UFPA microbolometer
Spectral Range	8~14µm
Resolution	80 x 80
IR IMAGING PERFORMANCE	
NETD	80mK at 86°F (30°C) [0.1° at 30°C]
Frequency	9Hz
Field View	20° x 20°
IFOV (Spatial Resolution)	4.4mrad
Min Focal Distance	15.6" (39.6cm)
FOCUSING	
Adjustment	Focus free
VISUAL IMAGE	
Built-in Digital Video	240 x 240 pixels
Min Focal Distance	2" (5cm)
PRESENTATION OF IMAGES	
Images Displayed	Infrared image, real image
LCD Screen	2.8" (7.1cm) (240 x 240 pixels)
Image Display	Multiple palettes selectable
FUNCTIONS	
Image Freezing	Moving or frozen image
Storage	Micro SD and SD HC card
MEASUREMENT	
Temperature Range	-4° to 482°F (-20° to 250°C)
Accuracy	±2°C (±3.6°F) or ±2%
ANALYSIS FUNCTIONS	
Analysis Tools	Point cursor, area cursor, temperature profile, minimum/maximum, cursor and isothermal
Adjustment	Automatic or manual adjustment of the minimum/maximum palette
Correction	Emissivity, distance, ambient temperature, relative humidity
Isotherm Display	Color display of a temperature range adjustable by the user
Voice Recordings	Via Bluetooth headset
Software	CAmReport analysis & report writing software
Power Source	NiMH, low self-discharge battery;
	Battery Life: 13h30 typical (11h min)
Safety	EN61326-1, EN61010-1-Ed.02
ENVIRONMENTAL SPECIFICAT	
Operating Temperature	-4° to 122°F (-15° to 50°C)
Storage Temperature	-40° to 158°F (-40° to 70°C)
Humidity	10% to 95%
Drop Resistance	6' (2m) on all sides
Impact Resistance	25G
Vibration Resistance	2G
Protection	IP54
DIMENSIONS/WEIGHT	8.86 x 4.92 x 3.27" (225 x 125 x 83mm)/25oz (700g)



FEATURES

- Focus-free with 20°x 20° field of view
- Automatic brightness control
- Exceptional 13-hour battery life
- Quick startup in under 3 seconds
- User configurable emissivity table
- User configurable cursor and trigger functions
- User selectable color palette
- Captures thermal and real image simultaneously
- Verbally record your comments directly to the image using included *Bluetooth* headset
- Wirelessly connect to AEMC Clamp-on Meters and Multimeters and record electrical measurements simultaneously with your thermograms
- Comprehensive CAmReport software included that offers all the necessary functions for reliable analysis of the measurement results and report generation







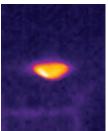
A comprehensive set of easy access menus are available on screen. You can use the function and navigation keys to easily configure the camera for your specific needs. Trigger functions can be programmed, color palettes can be selected, cursor tools can be configured as well as environmental conditions including ambient temperature and humidity, distance and emissivity.



SELECTABLE CURSOR TOOLS

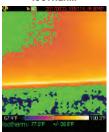
User programmable cursors provide a comprehensive set of options for evaluating thermal profiles



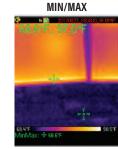


No cursor display, temperature evaluation is determined by color palette only.

ISOTHERM

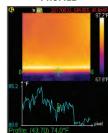


Displays points that fall in the same temperature range in the same color. User picks green, red or brown as the display color and defines the range and tolerance.



Automatically displays the cold and hot spot values at the Min and Max cursor positions.

PROFILE

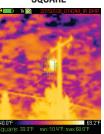


Displays the temperature profile of a horizontal line defined by the cursor. Cursor can be moved along the line to get an individual temperature.



Displays the value at the cursor. Cursor is movable using the navigation keys.

SQUARE



Displays the Min/Max and mean values within the box. Box size and location is user adjustable.



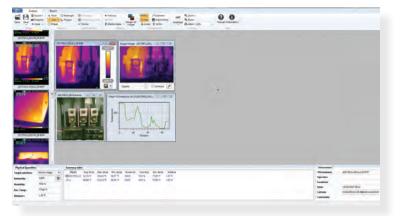
THERMAL IMAGING INFRARED CAMERA (CONTINUED)

CAMREPORT SOFTWARE FOR ANALYZING THERMOGRAMS

This comprehensive software offers all the necessary functions for effective analysis of the measurement results and report generation



Report creation is automatic, using one of three available templates. Reports can be exported in Word or PDF format. This makes it simple to print and/or archive them.



Typical analysis tab screen

CATALOG NO.

DESCRIPTION

2121.40

Thermal Imaging IR Camera Model 1950



FEATURES

- Transfer measurements from your camera to the software by USB cable, or transportable SD card
- Drag-and-drop measurement images from the storage directory to the analysis window in the software
- Includes thermal and real images automatically
- Superimpose thermal images over real images for better visual analytical results
- Locate Min/Max and mean temperatures of the image or an area of the image
- User selectable color palette from seven different types
- Summary table automatically displays environmental parameters and statistical results of the measurement
- Include dictated audio comments into the report with the Bluetooth headset
- Includes multiple analytical tools for assessing thermal images
- Manually enter measurement analysis findings, site characteristics and operator information to your report.
- Add graphics such as logos to your reports
- Correct the measurement results using built-in or user configured emissivity tables
- Include multiple measurements in any report
- Save reports as a Word or PDF document





SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

TRANSFORMER RATIOMETER

8505

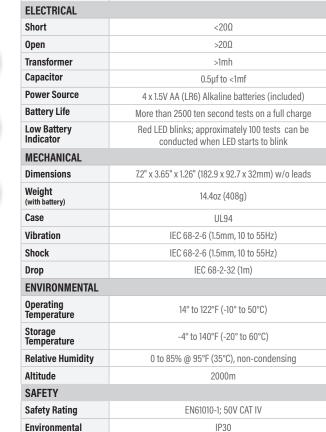
QUICK TESTER MODEL 8505

Designed to check the basic integrity of power transformers and capacitors

SPECIFICATIONS

MODEL

Special product features



Reference Conditions: 23°C \pm 3°C, 30-50% RH, battery voltage: 4.5V \pm 10%.



FEATURES

Checks coil continuity on single- and three-phase transformers

- Detects open or shorted coils and capacitors
- Detects switch open and closed positions
- Automatically identifies device as a transformer or capacitor
- Single button operation
- Bright LED indicators and buzzer for T and C
- Coiled captive test lead extends to 6ft each
- Test probe with 5.75" (146mm) shaft ideal for insertion into protective shroud to reach test point
- Multi-frequency source signals improves test reliability and accuracy
- Microprocessor based design for control, stability and repeatability
- Built-in self-test for inductance and capacitance
- Fuse protected
- Battery operated; more than 2500 tests on a full charge
- Low battery indicator begins to blink when capacity of ~100 tests remain

CATALOG NO.

DESCRIPTION

2136.51

Quick Tester Model 8505



TRANSFORMER RATIOMETER

DTR° MODEL 8510

Designed for on-site testing of power, potential and current transformers

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: $\pm 0.25\%$ of Reading
Excitation Signal	VT/PT Mode: 32Vrms maximum CT Mode: 0 to 1A, 0.1 to 4.5Vrms
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	Two rechargeable 12V NiMH batteries (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 LED/LCD indication
Charging Time	<4 hours

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



PRODUCT INCLUDES

NiMH batteries (installed), 115V power cord, set of two 15ft leads, 2 red & 2 black alligator clips, 10ft USB cable, external battery charger (90-264Vac, 50/60Hz) and soft carrying case.

USB DRIVE

Supplied with DataView software and user manual.

CATALOG NO.

DESCRIPTION

CE

transformer CT turns ratios

continuous operation

open and short circuits

balancing required

- Low battery indicator

downloading test results

generation of test data

N 61010-1; 50V CAT IV

deviation from the nameplate values

Measures power transformers, VT/PTs and current

Displays turn ratio, excitation current, winding polarity and %

Universal voltage (90-240V supply, 50-60Hz) via external

smart/fast battery charger; complete charge in less than

Tests performed by exciting the primary and reading the secondary; provides safer conditions for the operator Display warns of incorrect lead connection, reverse polarity,

Large dual display with adjustable contrast ensures clearer

• Two internal NiMH batteries provide up to 10 hours of

· Easy connection and test setup; no calibration or

visibility in any lighting environment day or night

Stores up to 10,000 test results in internal memory
USB port facilitates configuring the instrument and

Includes 15 foot lead set and soft carrying bag

Includes FREE DataView[®] analysis software for

programming, downloading, storing and report

cover closed

FEATURES

4 hours

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2136.50	Digital Transformer Ratiometer DTR* Model 8510
Accessories/Re	eplacement - available on website store from www.aemc.com
2136.76	Lead-Set of 2, 30ft for use with DTR* Models 8500 & 8510
2136.77	Lead-Replacement set of 2, 15ft for use with DTR [®] Models 8500 & 8510



Technical Assistance (800) 343-1391

Special product features







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CHAUVIN ARNOUX[®] GROUP

SEE WEBSITE FOR PRICING AND AVAILABILITY: WWW.AEMC.COM

METRIX

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CHANNIN ARNOW ENERGY

PYROCONTROLE

MULTIMETRIX

MANUMESURE

OTHER PRODUCTS FROM CHAUVIN ARNOUX[®] GROUP VOLTAGE TESTERS

MODELS C.A 771 & C.A 773

An essential tool for electricians to ensure no voltage is present before working on any electrical installation connected to the network

C.A 771

C.A 773

SPECIFICATIONS

MODELS

Special product features

MODELO	VIIII	011110				
ELECTRICAL						
Display	LEDs	LEDs + backlit digital display				
Voltage Absence Testing (VAT)	$12Vac \le U \le 1000Vac;$	$12 \text{VDc} \le U \le 1400 \text{VDc}$				
Voltage	8 to 1000Vac 8 to 1400Vbc	1 to 299Vac/dc 300 to 1000Vac/1400Vdc				
Frequency	DC, 16.67 to 800Hz					
Impedance	> 50	00kΩ				
Max. Peak Current	3.5m/	A RMS				
Polarity Indication	Ye	es				
Redundant Hazardous Voltage Indication	The ELV (Extra-Low Voltage) LED indicates that the voltage is higher than the SELV (Safety Extra-Low Voltage) with the rate at which it flashes proportion to the voltage level					
Stray Voltage Detection	Yes (by low-impedance load switching)					
GFU Tripping	up to 30mΩ					
Phase/Neutral Identification	Above 50V (45 to 65Hz); Above 150V (16.67 to 45Hz)					
Continuity & Resistance						
Buzzer Trigger Threshold	100Ω typical (150Ω max.)					
Extended Continuity Test (Resistance)	2kΩ, 60kΩ, 300kΩ	0.5Ω to 2999kΩ				
Test Current/ Open-circuit Voltage	≤ 1mA / ≤ 3.3V					
Phase Rotation	2-wire method wit	th microprocessor				
Ph/Ph Voltage		/ac (45 to 400Hz)				
Buzzer	Intermittent beep for Voltage Detection Continuous beep for continuity					
Standards & Electrical Safety	IEC 61243-3:2009, EN 61243-3:2010, IEC 61010 1000V CAT IV					
Operating Temperatures	-25.6° to 140°F (-30° to 60°C) (Class S)	5° to 113°F (-15° to 45°C) (Class N)				
Power Source	4 x AA batteries (inclu	ded) or NiMH batteries				
Environment	Storage: -40° to 15	58°F (-40° to 70°C)				
Dimensions/Weight	7.72 x 3.54 x 1.85" (196	x 90 x 47.1mm) / 570g				

PRODUCT INCLUDES

C.A 771 & C.A 773

2 x 1.5V LR06/AA batteries, velcro strap, set of removable test probes Ø 2mm with crystal safety cover, probe-tip protection, and user manual in 5 languages.







FEATURES

- Full autotest
- Voltage detection, LED display: 12Vac ≤ U ≤ 1000Vac 12Vbc ≤ U ≤ 1400Vbc
- Frequency: DC, 16.67 to 800Hz
- Detection of stray voltages
- Unipolar phase detection (a single contact)
- Two-pole phase-sequence testing with 2-wire method = a third hand is not required
- Continuity test with audible and visual indication (R <100 $\!\Omega)$
- Extended continuity test with visual indication for R <2kΩ, 60kΩ and 300kΩ (Model C.A 771) R <0.5Ω to 2.999kΩ (Model C.A 773)
- RCD trip test
- Complies with EN 61243-3 Ed.2009, EN 61243-3 Ed.2010 & IEC 61010 1000V CAT IV
- Climatic conditions: -25.6° to 140°F (-30° to 60°C) (Class S) (Model C.A 771) and 5° to 113°F (-15° to 45°C) (Class N) (Model C.A 773)
- Battery life > 5000 x 10s (Model C.A 771) 2500 x 10s (Model C.A 773) measurements
- Removable lead and test probe
- Delivered complete and ready to use

 CATALOG NO.
 DESCRIPTION

 2121.14
 Voltage Tester Model C.A 771

 2121.15
 Voltage Tester Model C.A 773





OTHER PRODUCTS FROM CHAUVIN ARNOUX[®] GROUP ASYC IV MULTIMETERS



MODELS MTX 3290, MTX 3291, MTX 3292 & MTX 3293

The first multimeters with color graphical display!



SPECIFICATIONS

MODELS	MTX 3290	MTX 3291	MTX 3292	MTX 3293		
ELECTRICAL						
DC, AC & AC+DC Voltages	60mV to	0 1000V	100mV	to 1000V		
DC Accuracy	±0.3%	±0.05%	±0.03%	±0.02%		
AC & AC+DC Bandwidth	20kHz	100kHz	100kHz	200kHz		
DC, AC & AC+DC Current	600µA to 10A / 20A (3	30s max) (MTX 3291)	1000µA to 10A / 10 to 20A (30s max)			
DC Accuracy	±0.0	08%	±0.01%			
Frequency	60Hz to	600kHz	10Hz to 5MHz			
Resistance	600Ω to	ο 60ΜΩ	100Ω to	o 100MΩ		
Audible Continuity	600Ω signal <	$30\Omega \pm 5\Omega < 5V$	1000Ω signa	I < 20Ω < 3.5V		
Diode Test	3V with 1mV	/ resolution		/ < 1mA + Zener 0 to 20V < 11mA		
Capacitance	6nF to	60mF	1nF to	o 10mF		
Temperature Pt100/1000		-328° to 1472°F ((-200° to 800°C)			
Temperature K/J TC	_		-40° to 2192°F	(-40° to 1200°C)		
OTHER FUNCTIONS						
MIN/MAX/PEAK	Time/date-stamped MA on all the		SURV time/date-stamped MAX/MIN/AVG or PEAK ±, on all the functions			
Relative Mode (ΔRel)	Relative value + m value on secondary		Relative value REF-delta unit or on 3 displays + main measurement			
PWM Filter	4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motors					
V-Output Clamp Function for Direct Reading	Integration of the ratio: 1/	′1, 1/10, 1/100, 1/1000mV/A	Programm	nable ratio		
Secondary Functions or Measurements	dBm and VA resi duty cycle, and puls		3 measurements +	main measurement		
SPEC Mode	-			nt tolerance: Smin, Smax		
GRAPH	-		Trends of main measurements < 60s + Zoom + Cursor			
Center Zero	Selectable or automati for VDC a		Automatic trend bargraph			
Memory	-		1000	6500		
GENERAL						
Display	LCD with backlighting (MTX Double 60,000 (MTX 329		Color graphical display (70 x 52) with backlighting on four 100,000-count display			
Communication	_	USB optical connector & SX-DMM software (included)	USB optical connector or Bluetooth Class II (optional) & SX-DMM software (included)			
Power Source	4 x AA b or NiMH batter		Charger or 4 x AA batteries or NiMH batteries (included)			
Environment	Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)					
Dimensions / Weight		7.72 x 3.54 x 1.85" (196 x 90) x 47.1mm) / 20.1oz (570g)			

*IP Rating, CE mark, Double Insulation and TRMS applies to all models **Bluetooth Communication for Models 3292-BT & 3293-BT only



Functional Displays

MODELS 3292 & 3293 COLOR MATRIX GRAPHICAL SCREENS



Instrument configuration
 Setup Menu (3/3)
 Memory Config About ...

 SETUP MENU
Config about C...
Configuration of measurements

Configuration of the measurement parameters

ctivate input filtering

(IR)

MTX 3290 & MTX 3291 FEATURES

- Easy-to-read 2.75 x 2.04" (70 x 52mm) backlit LCD screen
- On screen connection indicator
- · Current: auto-ranging up to 10A
- Secondary measurements in addition to the main measurement to facilitate analysis
- MIN/MAX and AVG data with relative time/date-stamping and voltage and current peaks
- SX-DMM software for real-time processing of the data on a PC (MTX 3291)
- Powered by 4 standard AA batteries or 4 NiMH batteries rechargeable available with optional external charging module

MTX 3292 & MTX 3293 FEATURES

- Easy-to-read 320 x 240 pixel color matrix graphical screen with black background
- Trace, cursors and zoom on recordings
- Programmable storage rate
- Stores of up to 6500 measurements
- On screen connection indicator
- USB or Bluetooth Class II communication available as an option
- NiMH AA rechargeable battery
- No downtime: instrument operates while charging



MEM Storing of the measurements, recording mode



HOLD Management and hold of the display

MODELS 3290 & 3291 BACKLIT LCD SCREENS



MAX/MIN AVG Displays maximum, minimum and average values



PEAK MODE Example of screen showing Peak+ value

AREL MODE Displays relative values with respect to referenced measured value

PRODUCTS INCLUDE

MTX 3290 & MTX 3291

Set of 2, Color-coded safety leads (Red/Black), Set of 2, Color-coded (Red/Black) test probes, quick start guide, 4-1.5V alkaline batteries (installed) and user manual on USB drive. Model MTX 3291 includes a soft carrying case, USB cable, and USB drive with SX-DMM software.

MTX 3292, MTX 3292-BT, MTX 3293 & MTX 3293-BT

Soft carrying case, Set of 2, Color-coded safety leads (Red/Black), Set of 2, Color-coded (Red/Black) test probes, quick start guide, 4 NiMH 2400mAH 1.5V rechargeable batteries (installed), optical USB cable, power supply with US plug adapter, quick start guide, and USB drive with SX-DMM software.

CATALOG NO.

DESCRIPTION

2154.01	DMM Model MTX 3290 (ASYC IV, TRMS, 6000-cts, Digital LCD)
2154.02	DMM Model MTX 3291 (ASYC IV, TRMS, 60,000-cts, USB, Backlit, Digital LCD)
2154.03	DMM Model MTX 3292 (ASYC IV, TRMS, 100,000-cts, USB, Color Graphical Display)
2154.04	DMM Model MTX 3293 (ASYC IV, TRMS, 100,000-cts, USB, Color Graphical Display)
2154.05	DMM Model MTX 3292-BT (ASYC IV, TRMS, 100,000-cts, <i>Bluetooth</i> , USB, Color Graphical Display)
2154.06	DMM Model MTX 3293-BT (ASYC IV, TRMS, 100,000-cts, Bluetooth, USB, Color Graphical Display)



OTHER PRODUCTS FROM CHAUVIN ARNOUX[®] GROUP MULTIFUNCTION INSTALLATION TESTERS

MODELS C.A 6116N & C.A 6117

Safety for your electrical installations and high performance of a unique instrument



C.A 6116N



C.A 6117

SPECIFICATIONS

CONTINUITY / RESISTANCE

MODELS

Special	
product	
features	



CONTINUITY / NESISTANCE			
I Rated/Range/Resolution	$I > 200 mA/39.99\Omega/0.01\Omega/\pm(1.5\% of measurement + 2cts)$ 12mA/39.99Q & 399.9Q/0.01 & 0.1Q/ $\pm(1.5\% of measurement + 5cts)$ with beep		
Range/Resolution/Accuracy	$4k\Omega/1\Omega/\pm(1.5\%)$ of measurement + 5cts) 40 to $400k\Omega/10$ to $100\Omega/\pm(1.5\%)$ of measurement + 2cts)		
INSULATION			
Rated Voltage	50/100/2	/250/500/1000Vpc	
Range/Resolution/Accuracy	0.01MΩ to 2GΩ/10kΩ to 1M	MΩ/±(5% of measurement + 3cts)	
Short-Circuit Current		≤ 3mA	
GROUND RESISTANCE			
3-Point			
Range/Resolution/Accuracy		cts) 400 to 15k0/0.1 to 10/±(2% of measurement + 2cts) 10% of measurement + 2cts)	
Ufk	Complie	es with SEV 3569	
1-Point Selective			
Range/Resolution/Accuracy	0.20 to 39.99Ω – 40 to 399.9Ω/0.01 to 0.1Ω	Ω/±(10% of measurement + 10cts) (ISel via clamp)	
LOOP IMPEDANCE (ZS (L-PE) & ZI (L-N	N OR L-L)) / 1-POINT LIVE GROUND		
Live Ground			
Installation Voltage/Frequency	90 to 500V/15	5.8 to 17.5Hz – 45 to 65Hz	
HIGH-CURRENT MODE WITH TRIP ZS ((L-PE) & ZI (L-N OR L-L)		
Range/Resolution/Accuracy	Max. test current: 7.5 A (0.050) 0.100 to 0.5Ω/0.001Ω/±(10% of measurement + 20cts); 0.5 to 3.999Ω/0.001Ω/±(5% of measurement + 20cts) 3.999 to 39.99Ω/0.01Ω/±(5% of measurement + 2cts); 39.99 to 399.99Ω/0.1Ω/±(5% of measurement + 2cts)		
No TRIP Mode (Zs (L-PE) only)	Test current: 6mA – 9mA – 12mA (as required) 0.20 to 0.990/0.010/±(15% of measurement + 10cts) 1.00 to 1.990/0.010/±(15% of measurement + 3cts) 2.00 to 39.990/0.010/±(10% of measurement + 3cts) 40.00 to 399.90/0.10/±(5% of measurement + 2cts) 400 to 39990/10 /±(5% of measurement + 2cts)		
Calculation of Ik Short-Circuit Current (PFC (Zs)), I Sc PSCC (Zi)	Fault current and short-circuit current: 0.1A to 20kA		
Integrated Fuse Table	-	Yes	
Voltage Drop $\Delta V\%$ (Zi)	-	-40% to 40%	
Others	Measurement of the resistive and indu	uctive components of the Zs and Zi impedances	
AC & A-TYPE RCDS			
Installation Voltage/Frequency	90 to 500V/15.8	3 to 17.5Hz and 45 to 65Hz	
IΔn		10/30/100/300/500/650/1000mA (90 to 280V) or variable – 10/30/100/300/500mA (280 to 550V) or variable Ramp and pulse test	
No TRIP Test	at ½ I∆n – Du	iration: 1000 or 2000ms	
Ramp Mode	0.2 to 0.5 x I∆n (Uf)/0.3 x I∆n t	to 1.06 x I∆n in increments of 3.3% x I∆n	
TRIP Time Measurement			
Range/Resolution/Accuracy	0.50 to 40Ω/0.01Ω/±(2% of measurement + 10cts) 40Ω to 15kΩ/0.1 to 1Ω/±(2% of measurement + 2cts) 15 to 40kΩ/10Ω/±(10% of measurement + 2cts)		
B-TYPE RCDS			
Installation Voltage/Frequency	-	90 to 275V/15.8 to 17.5Hz and 45 to 65Hz	
IΔn: Ramp/Pulse 2 x IΔn Pulse 4 x IΔn		$\frac{10/30/100/300/500\text{ mA and }10/30/100\text{ mA with pulse }4 \Delta n}{\text{Duration: 150ms with }4 \times \Delta n \text{ or }300\text{ ms with }2 \times \Delta n}$	
Test in Ramp Mode	-	0.2 x I∆n to 2.2 x I∆n	
TRIP Test: 2 x IAn & 4 x IAn		$ N \le 200 \text{mA}$: 2.2 x 2 x N > 200 mA: 1.1 x 2 x	



OTHER MEASUREMENTS		
Current by Clamps C177	5.0mA to 199.9A	
Current by Clamp MN77	(1mA*) 5.0mA to 19.99A	
Voltage	0 to 550Vac/pc and 15.8 to 500Hz	
Frequency	10 to 500Hz	
Phase Rotation	20 to 500Vac	
Active Power	0 to 110kW single-phase – 0 to 330kW three-phase Simultaneous display of voltage and current waveforms	
Harmonics	Voltage and current/up to 50 th order/THD-F/THD-R	
GENERAL SPECIFICATIONS		
Display	Large 5.7" backlit graphic color, LCD screen, 320 x 240 points	
Storage/Communication	via USB for data transfer and report creation	
Power Supply (rechargeable battery)	Lithium-ion 10.8V rated 5.8 Ah	
Battery Life	up to 30 hours	
Dimensions/Weight	11.02 x 7.48 x 5.04" (280 x 190 x 128mm)/ 4.85lbs (2.2kg)	
Protection	IP53/IK04	
EMC	IEC 61326-1	
Electrical Safety	IEC 61010 -1/600V CAT III & 300V CAT IV/IEC 61557	
*If a voltage is connected to the instrument		

FEATURES

- Testing according to the international standards: IEC 60364-6, NF C 15-100, VDE 100, XP C 16-600, etc.
- Simple, reliable connection thanks to the contextual help for each function, including all the connection diagrams
- Suitable for all neutral systems (TT, TN, IT)
- Type-B RCD testing available (Model C.A 6117)
- Integrated fuse table for quick reading of the results on the instrument
- · Li-Ion battery for a longer battery life
- Measurements: voltage, current via clamp, power, waveforms and harmonics.
- Measurement of voltage drop for correct sizing of conductor diameters
- Loop measurement with $1m\Omega$ resolution
- 3-level storage
- Includes FREE DataView[®] analysis software for programming, downloading, storing and report generation of test data
- Built-in fuse table (Model C.A 6117)

PRODUCT INCLUDES

C.A 6116N & C.A 6117

carrying bag, US power cord and charger, Li-lon battery pack, USB A/B cable, set of three 3-prong safety voltage leads, set of three test probes & set of three alligator clips (red/blue/ green), set of two color-coded safety leads (red/black) 4mm straight plug, 3-prong US measurement cord, remote test probe, wrist strap, hands-free strap, and a USB drive with DataView* software and user manual.



CATALOG NO.	DESCRIPTION
2138.06	Multi-Function Installation Tester Model C.A 6116N (US) (Includes DataView' software)
2138.07	Multi-Function Installation Tester Model C.A 6117 (Includes DataView* software)
2138.10	Multi-Function Installation Tester Model C.A 6116N w/ CI77A Probe (US) (DataView* software)
2138.11	Multi-Function Installation Tester Model C.A 6117 w/ C177A Probe (US) (DataView' software)



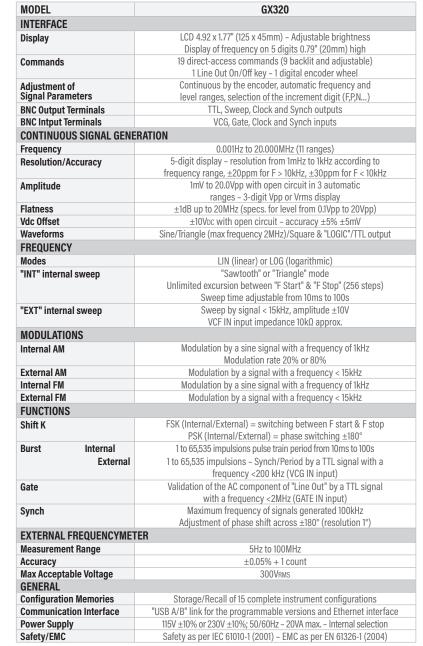
OTHER PRODUCTS FROM CHAUVIN ARNOUX[®] GROUP DDS GENERATOR AND FREQUENCY METER

MODEL GX320

Cascade arrangement for simulating complex signals with 20MHz and integrated external frequency meter

SPECIFICATIONS

Special product features





(E

FEATURES

- Frequency range from 20MHz
- DDS technology and frequency accuracy of ±20ppm
- Frequency adjustment stable to the nearest digit
- "LOGIC signal" function for direct adjustment of high and low levels
- LIN or LOG sweep, triangle or sawtooth, with adjustable duration from 10ms to 100s
- Internal and external AM & FM modulation, GATE, BURST, FSK and PSK functions
- Adjustable phase synchronization of several generators in a cascade arrangement
- 100MHz frequency meter
- Storage of 15 complete instrument configurations
- Versions programmable via USB link and Ethernet with standard SCPI protocol

CATALOG NO.

2138.02

DESCRIPTION

Function Generator Model GX320 (DDS, 20MHz, USB)





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- FEATURES
- Measurements up to 100,000rpm
- Multiple 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 (Model CA1727)



MODELS CA1725 & CA1727

Special product features

Simple to use and offers numerous measurement capabilities with or without contact

SPECIFICATIONS

MODELS	CA1725 & CA1727
MEASUREMENTS	
Rotational Speed	Range: 6 to 100,000rpm
Function	Resolution: 0.0006 to 6rpm depending on range
	Accuracy: $\pm 1 \times 10^{-4}$ of Reading ± 6 counts
Linear Speed Function	Range: 0.1 to 10,000m/min or ft/min
Function	Resolution: 0.0006 to 6m/min depending on range
	Accuracy: $\pm 1 \times 10^{-4}$ of Reading ± 1 increment
Frequency Function	Range: 0.1 to 10,000Hz
Function	Resolution: 0.0004 to 0.4Hz depending on range
	Accuracy: $\pm 4x10^{-5}$ of Reading ± 4 counts
Period Function	Range: 0.1 to 10,000ms
	Resolution: 0.0003 to 0.3ms depending on range
	Accuracy: ±1x10 ⁻⁴ of Reading ±5 counts
Duty Cycle Function	Range: 10 to 10,000%
Function	Resolution: 0.1 to 1% depending on range
	Accuracy: $\pm 0.1\%$ of scale from 0.2 to 50Hz
	$\pm 0.2\%$ of scale from 50 to 125Hz / $\pm 1\%$ of scale otherwise
Count function	Range: 0 to 99,999 events; Accuracy: ±1 event (Model CA1727)
GENERAL	
Power Source	9V battery Alkaline (included)
Battery life	250 x 5 min measurements with optical sensor;
	600 x 5 min measurements with external sensor
Data Storage	4000 measurements (Model CA1727)
Dimensions	8.5 x 2.83 x 1.85" (216 x 72 x 47mm)
Weight	8.8oz (250g)
Weatherproofing	IP51
Environment	Storage: -4 to +158°F (-20 to +70°C) 95% RH;
	Operation: 32 to 131°F (0 to 55°C) 90% RH
SENSOR	
Optical	Reflective area: 10 to 90% of the target area.
-1	Measurement distance: 0.4 x 19.7" (1 to 50cm). The maximum distance is given for a reflective adhesive strip
	with a minimum area of 10cm ² .
	Measurement angle: ±15° in relation to the perpendicular of the reflective surface.
Mechanical	Mechanical adapter: End-fittings: elastomer with a durometer hardness of 80
	Pressure on moving part: between 2 and 40N; maximum speed: 10,000rpm
	Service life: approx. 1000 hours at 3000rpm with a pressure of 20N
	Conical end-fitting accessory: Minimum diameter of measurement shaft: 0.2" (5mm)
	Cylindrical end-fitting accessory: Speed measurements on shafts with a diameter greater than 0.2" (5mm)
	or flat-ended shafts
	End-fitting accessory with wheel; Wheel diameter: 1.19" (30.183mm);
	Wheel development: 3.94" ±0.004" (10cm ±0.1mm)

PRODUCT INCLUDES

Hard case, FRB F connector, 9V battery, set of fifteen reflective strips, quick start guide and user manual. The Model CA1727 also includes a USB cable and TachoGraph software.

ACCESSORIES

MECHANICAL ACCESSORIES KIT

Catalog #1749.02 Mechanical adapter, calibrated wheel, conical end fitting and cylindrical end fitting

CATALOG NO.	DESCRIPTION
1748.10	Tachometer Model CA1752
1748.30	Tachometer Model CA1727
Accessories/Replaceme	ent - available on website store from www.aemc.com
1749.02	Mechanical accessories kit



www.aemc.com 133

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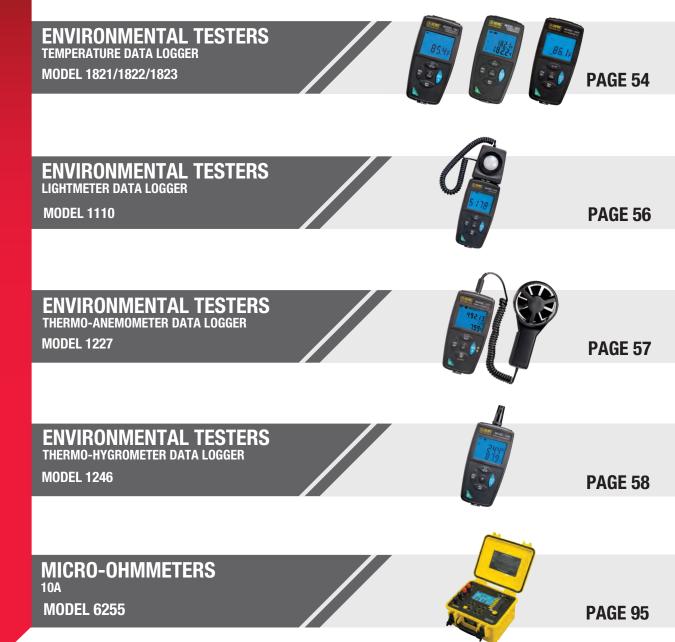
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