Digital Micro-Ohmmeters



FEATURES

0

- Selectable test currents from 10mA to 200A (model dependent)
- ► Resolutions to 0.1 micro-ohm
- ► Accuracies to 0.05%
- ► Large easy to read backlit display
- Automatic and software temperature compensation (model dependent)
- Automatic multipoint measurements
- Internal data storage of test results
- Analysis and report generation software (DataView[®]) included
- Built into a rugged field proven case
- ► Kelvin test cables included

Our products are backed by over 100 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.





MODEL 6240



Product 2129.80 Includes

- 2 Kelvin clips, 10ft (10A Hippo)
- 2 Kelvin Probes 10ft (1A, spring loaded)
- NiMH rechargeable battery pack*
- Optical USB cable
- US 115V power cord
- DataView® software
- Extra large tool bag
- 2 spare fuses (12.5A)
- User manual

*Can be charged during operation.

Accessories/Replacement Parts

- 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 2 Kelvin Probes Pistol Grip 10ft (10A spring loaded)
- 2118.76 2 Kelvin Probes Pistol Grip 20ft (10A spring loaded)
- 2118.77 2 Kelvin Probes 10ft (10A spring loaded)
- 2118.78 2 Kelvin Probes 20ft (10A spring loaded)
- 2118.79 Kelvin Clips 10ft (1-10A)
- 2118.80 Kelvin Clips 20ft (1-10A)

FEATURES

- ▶ Reliable low resistance measurements
- ► Four-terminal Kelvin resistance measurement eliminates test lead resistance
- Measures up to $4000\mu\Omega$ with 10A of test current
- ▶ 0.25% basic accuracy
- ► $1\mu\Omega$ resolution
- ► Direct reading, easy to operate
- ▶ Test current selection of 1mA, 10mA, 100mA, 1A and 10A
- Polarity reversal button
- Overload and input fuse protection
- Manufactured to international safety and environmental standards
- ► Automatic scaling and zeroing
- ► Large terminals accept banana plugs and spade lugs
- Rechargeable NiMH battery with internal charger (110/230V) that can be charged during operation
- ► Rugged, double insulated watertight case
- Includes DataView[®] software for instrument configuration, data storage, analysis and report generation

APPLICATIONS

- ► Aerospace metallic coating resistance measurement
- ▶ Bonding verification on earth/ground systems
- ► Weld joint integrity verification
- Contact resistance measurement of breakers and switchgear
- ► Aircraft and rail bonding checks
- ▶ Wire to terminal connections and resistance checks
- ► Battery strap resistance checks
- ► Cable joint and bus bar connection checks
- Mechanical bond tests





SPECIFICATIONS

ELECTRICAL						
Range	4000μΩ	40m Ω	400m Ω	4000mΩ	40Ω	400Ω
Accuracy	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts	0.25% of Reading ± 2cts
Resolution	1μΩ	10μΩ	0.1mΩ	1mΩ	10mΩ	100mΩ
Test Current	10A	1A	1A	100mA	10mA	10mA
Measurement Mode		Single test star	t/stop or auto test a	nd store of multiple	measurements	
Power Source			Rechargeable 6V, 8	.5Ah NiMH batteries	;	
Battery Life			Up to 850	, 10A tests		
Battery Charging			Internal 110/230Va	c, 50/60Hz charger		
Power Management			User selectable p	ower save mode		
Low Battery Indication			📄 blinks when b	attery needs chargi	ng	
Memory	Stores up to 99 test results Data in memory can be reviewed on the instrument display, on a PC or via direct printout					
Communication Software	DataView [®] software					
MECHANICAL						
Dimensions		1().70 x 9.76 x 7.17"	(270 x 250 x 180m)	m)	
Weight	10 lbs. (4.5kg)					
Index of Protection	IP53 (case open); IP54 (case closed)					
Color	Safety yellow case; gray faceplate UL94 V-0					
DISPLAY						
Display Type	4000-count LCD					
Size	4 x 2.25" (102 x 57mm)					
Blacklight	Blue electroluminescent					
COMMUNICATION						
Interface Port			Optically is	olated USB		
ENVIRONMENTAL						
Operating Temperature	14° to 132°F (-10° to 55°C); 10 to 85% RH					
Storage Temperature	-40° to +158°F (-40° to +70°C); 10 to 90% RH					
SAFETY						
Safety Rating			EN61010-1	300V CAT II		
Double Insulation			Ye	es		
CE Mark			Ye	es		
Catalog No.			212	9.80		





MODEL 6255



Product 2129.84 Includes

- 2 Kelvin clips 10ft (10A Hippo)
- 2 Kelvin Probes 10ft (1A, spring loaded)
- NiMH rechargeable 6V battery pack
- Optical USB cable
- US 115V power cord
- DataView[®] software
- Extra large tool bag
- User manual

Accessories/Replacement Parts

- 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 2 Kelvin Probes Pistol Grip 10ft (10A spring loaded)
- 2118.76 2 Kelvin Probes Pistol Grip 20ft (10A spring loaded)
- 2118.77 2 Kelvin Probes 10ft (10A spring loaded)
- 2118.78 2 Kelvin Probes 20ft (10A spring loaded)
- 2118.79 Kelvin Clips 10ft (1-10A)
- 2118.80 Kelvin Clips 20ft (1-10A)
- 2129.95 RTD Temperature Probe
- 2129.96 RTD Temperature Probe w/ 7ft extension cable

FEATURES

- ► Test up to 60 minutes continuously at 10A
- Measure from $1\mu\Omega$ to 2500Ω
- ▶ Test current selection of 1mA, 10mA, 100mA, 1A and 10A
- ▶ RTD temperature probe to check tested sample (optional)
- Selectable metal types
- ► Automatic and manual temperature correction
- ► EMF levels measured and eliminated in measurement
- ► Two programmable alarm set points
- ► Stores up to 1500 test results
- Selectable Inductive or Resistive test modes
- Automatic multiple test mode (multiple tests without pressing the test button)
- ► Large multi-line electroluminescent display
- Local or remote test setup and control
- Internal rechargeable batteries conduct up to 5000 10A tests
- ▶ Rugged, double insulated watertight case

APPLICATIONS

- ► Aerospace metallic coating resistance measurement
- ▶ Bonding resistance measurement of motors and transformers
- ▶ Bonding verification on earth/ground systems
- ► Weld joint integrity verification
- ► Contact resistance measurement of breakers and switchgear
- Aircraft and rail bonding checks
- ▶ Wire to terminal connections and resistance checks
- ► Battery strap resistance checks
- Cable joint and bus bar connection checks
- Mechanical bond tests





SPECIFICATIONS

ELECTRICAL							
Range	5.000mΩ	25.000mΩ	250.00mΩ	2500.0mΩ	25.000Ω	250.00Ω	2500.0Ω
Accuracy	0.15% of Reading +1μΩ	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		1A	100mA	10mA	1mA
Measurement Mode	Sele	Selectable: Inductive (continuous test), Resistive (instantaneous test) or Auto (multiple tests)					ests)
Power Source		Rechargeable 6V, 8.5Ah NiMH batteries					
Battery Life			Approx	imately 5000, 10	A tests		
Battery Charging			Internal 120/2	240Vac, 45/400H	z line voltage		
Power Management		Display power		or 10 minutes of	f inactivity (opera	ator selectable)	
Low Battery Indication			 display	s when battery n	eeds changing		
Memory	Stores up to 1500 test results Data in memory can be reviewed on the instrument display, on a PC or via direct printout						
Communication Software	DataView® software						
MECHANICAL							
Dimensions			10.63 x 9.84	x 7.09" (270 x 2	50 x 180mm)		
Weight	8.1 lbs (3.69kg)						
Index of Protection	IP53 (case open); IP64 (case closed)						
Color	Safety yellow case; gray faceplate UL94 V-0						
DISPLAY							
Display Type	Large 50,000-count digital						
Size	4 x 2.25" (102 x 57mm)						
Blacklight	Blue electroluminescent						
COMMUNICATION							
Interface Port	RS-232						
ENVIRONMENTAL							
Operating Temperature	14° to 132°F (-10° to 55°C); 10 to 80% RH (non-condensing)						
Storage Temperature	-40° to 140°F (-40° to 60°C); 10 to 80% RH (non-condensing)						
SAFETY							
Safety Rating			EN	61010-1, 50V CA	T III		
Double Insulation				Yes			
CE Mark				Yes			
Catalog No.				2129.84			
<u> </u>		1					-













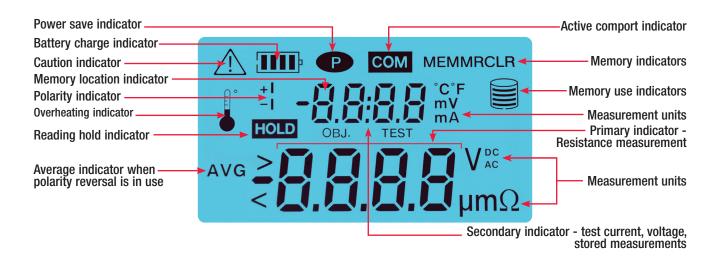
Model 6240

Construction



* Function buttons allow direct access to data storage and retrieval, polarity reversal, auto/manual measurement and displayed values.

Functional Display





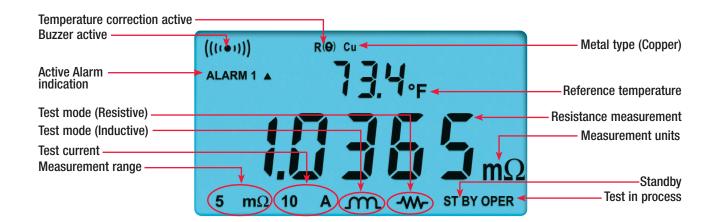


Construction



* Function buttons allow direct access to data storage and retrieval, polarity reversal, auto/manual measurement and displayed values.

Functional Display





MODEL 6292





Product 2129.83 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

Accessories/Replacement Parts

- 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
- 2129.88 Lead 10ft Eartth/Ground w/ attached Clamp
- 5000.40 110V US Power Cord

FEATURES

- Advanced cooling system allows continuous testing at 100A or below and up to 120 seconds at 200A
- Incorporates True DC high output with minimum, near zero, ripple lower than 2% of full range.
- ► Allows multiple sequential tests
- ▶ Programmable test currents from 5 to 200A
- Measures single or both sides grounded systems
- ▶ Direct viewing of stored tests on the display
- Accurately measures low contact resistances from 0.1µΩ to 1Ω
- Resolution of 0.1µΩ
- Large LCD digital display, available in four languages
- ► Stores up to 8000 test results
- ► USB communication interface
- ► Direct printout using DataView[®] software and a PC
- ▶ Rugged, light-weight and water-resistant case

APPLICATIONS

- ► Test switchgear contact resistance
- ► Test circuit breaker contact resistance
- ► Test air frame bonding
- Test rail bonding
- Test pipeline bonding
- Test large transformers





SPECIFICATIONS

ELECTRICAL			
Test Current Range	Programmable from 5 to 200A (True DC)		
Resistance Range	$0.1\mu\Omega$ to $2m\Omega$; 2 to $200m\Omega$; $200m\Omega$ to 1Ω		
Accuracy	\pm 1% of reading from 50µ Ω to 1 Ω		
Resolution 0.1μΩ to 2mΩ 2 to 200mΩ 200mΩ to 1Ω	0.1μΩ (200A max) 10μΩ (25A max at 200mΩ) 1mΩ (5A max at 1Ω)		
Output Voltage	100Vac: 4.2V @ 200A 220Vac: 8.6V @ 200A		
Max. Load Resistance	100Vac: 20mΩ @ 200A 220Vac: 42mΩ @ 200A		
Measurement Method	Four-terminal, Kelvin-type		
Test Mode	Normal or both sides grounded (BSG)*		
Adjustable Test Time	5 to 120 seconds at 200A, unlimited at 100A or below		
Memory	Stores up to 8000 measurements		
Communication Software	DataView [®] software		
Power Supply	100 to 240Vac, 50/60Hz		
MECHANICAL			
Dimensions	19.8 x 15.5 x 7.5" (502 x 394 x 190mm)		
Weight	24.25 lbs (11kg) approx		
DISPLAY			
Display Type	4 line x 20 characters per line LCD		
Size	4.75 x 2.75" (121 x 70mm)		
Backlight	adjustable		
COMMUNICATION			
Interface port	USB 2.0		
ENVIRONMENTAL			
Operating Temperature	32° to 122°F (0° to 50°C)		
Storage Temperature	14° to 158°F (-10° to 70°C)		
Humidity	95% RH (non-condensing)		
SAFETY			
Safety Rating	IEC61010-1		
Protection	Protections against over current, short circuit, overheating and over voltage at output terminals		
Environmental Protection	IP54 with closed lid		
Test w/ Both Sides Grounded	Yes		
CE Mark	Yes		

*BSG Test Mode requires optional Current Probe Model MR6292 (Cat. #2129.86)









5000.40



Model 6292

Construction



Functional Display





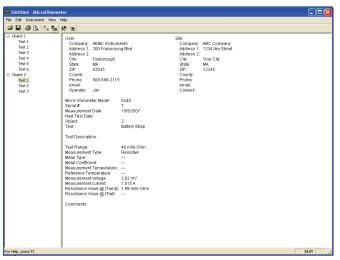
DataView

FEATURES

- ► Configure instrument from your PC
- ► Customize views and templates to your exact needs
- Create and store a library of configurations that can be used with the Models 6240, 6255, and 6292 as needed
- Display test results
- Print reports using standard included templates or custom templates you design
- ► Upload stored test results to your PC

	- 8 ×
Imdex Name Value Units 1 Battery Strap 1962/m Ohm 2 Test 2 1992/m Ohm Measurement Date 10/6/2007 3 Test 3 2.107/m Ohm Measurement Time 8:57.47.000 AM 4 4 4 Measurement Time 8:57.47.000 AM 5 Test 3 2.107/m Ohm 1 Measurement Type 8:57.47.000 AM 6 4 4 4 4 4 4 4 4 4 4 4 5 4 5 4 5 4 4 4 4 5 4 <	
e See Dee Tationay) 24 Julie - Brig C. Stanon abaylande. Sy Stanon Barrow. Spectrum. Spectrum.	NUM NUM

Statistical presentation of measurements



Clean, easy-to-read report of test results



Resista	ance Test Report	
Operator AEMC: Instruments 2007 Foxborrough Biol 598-698-2115 Model: Micro-Oherneter Medel (5247),07.7 Comments Thes text was performed on the b connection points met specification	Test Sta Free Sta go Chancy Sa Bottom MA (2111 19755-5555	Channel Name Measurmed Date Measurmed Date 1012/2011 Measurmed Date 1012/2011 Measurement Time 602/2000 Measurement Measuremen
o-Ohmmeter Model 6240 Co	onfiguration Panel	
Date Format European (DD/MM/YYYY) USA (MM/DD/YYYY)		
Auto Power OFF		Set Clock
© OFF P C ON		Delete Tests
Power down delay 0 (1 -	15 minutes)	
	nt Read from Instrume	ent Cancel (

(B) AEMC

All set up functions available from one screen

Test name:	Battery Strap			
Measurement date:	10/5/2007			
Next measurement date:	[
Description:	[
Comments:				
	<			8
- Temperature Correction -				
- Temperature Correction - Temperature Format -		Metal Type C Copper C Aluminum C Other	Alpha = 3.93 Alpha = 4.03 Alpha =	E-3
Measurement temperatu	ire (Tamb)			
Reference Temperature	(TrEF)			

Easily documents statistics about user and test site to be stored with the data

www.aemc.com

United States & Canada

Chauvin Arnoux[•], Inc. d.b.a. AEMC[•] Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118

Customer Support for placing an order, obtaining price & delivery (800) 343-1391 customerservice@aemc.com

Sales & Marketing Department for general sales and marketing information sales@aemc.com marketing@aemc.com

Repair & Calibration Service for information on repair & calibration repair@aemc.com

United States & Canada (continued)

Technical & Product Application Support for technical and application support (800) 343-1391 techinfo@aemc.com

Webmaster for information regarding our website www.aemc.com webmaster@aemc.com

South America, Central America, Mexico & the Caribbean

Chauvin Arnoux[•], Inc. d.b.a. AEMC[•] Instruments 15 Faraday Drive Dover, NH 03820 USA export@aemc.com

Australia & New Zealand

Chauvin Arnoux[•], Inc. d.b.a. AEMC[•] Instruments 15 Faraday Drive Dover, NH 03820 USA export@aemc.com

All other countries

Chauvin Arnoux[•] SCA 190, rue Championnet 75876 Paris Cedex 18, France Tel 33 1 44 85 45 28 Fax 33 1 46 27 73 89 info@chauvin-arnoux.com www.chauvin-arnoux.com



AEMC ONE SOURCE[®] For All Your Electrical Test & Measurement Instruments

Visit our website at **www.aemc.com**

Call the AEMC[®] Instruments Technical Assistance Hotline for immediate consultation with an applications engineer: (800) 343-1391 Chauvin Arnoux[®], Inc. d.b.a AEMC[®] Instruments • 200 Foxborough Blvd. • Foxborough, MA 02035 USA • (800) 343-1391 • (508) 698-2115 • Fax (508) 698-2118 E-mail: sales@aemc.com | Export Department: 1+(603) 749-6434 x520 • Fax (603) 740-7550 • E-mail: export@aemc.com