

MICRO-OHMMETERS

10 A

MODEL 6240

		50 V CAT III		
cover closed	cover open			

Complete low-resistance measurements on bonds, switchgear, breakers and other electrical connections.



Optional Spring-Loaded Probes
For repeatable testing on busbars or hard-to-access areas



DataView®



FEATURES

- High-accuracy, four-terminal Kelvin micro-ohmmeter designed for low-resistance measurements on grounding, bonding, and electrical connections where lead resistance must be eliminated
- Operates while recharging, allowing continuous testing without downtime test currents from 10 mA to 10 A, providing flexibility for delicate components through heavy-duty bonds
- Current reversal (± 1) with averaging reduces thermal EMF and stray DC offsets, improving accuracy in very low resistance measurements
- Simple Repetitive and Manual test modes allow fast single measurements or controlled testing depending on application needs
- Large, multi-parameter backlit LCD displays resistance, test current, polarity, voltage, and battery status for clear visibility in all lighting conditions
- Built-in data storage for up to 99 measurements, with automatic recording capability for repetitive testing
- Direct USB communication with DataView® software enables instrument configuration, data retrieval, analysis, and professional report generation
- Safety-rated CAT III 50 V with input fuse protection and automatic discharge of residual energy on the device under test

MODEL	6240
ELECTRICAL	
Maximum Test Current	10 A
Test Current Selection	(10,100) mA, (1,10) A
Minimum Resistance Measurement	5 $\mu\Omega$
Typical Accuracy	$\pm (0.25 \% + 2 \text{ cts})$
Resolution	1 $\mu\Omega$ to 100 m Ω
Test Modes	Repetitive, Manual
COMPENSATION & ALARMS	
Temperature Compensation ⁽¹⁾	Yes
Alarms	No
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	Yes
Onboard Measurement Storage	99
Data Connection	Optical USB
Automatic Measurement Storage	Yes
OTHER FEATURES	
Polarity Reversal and Averaging	Yes
GENERAL	
Display	Multi-parameter backlit LCD
Power Source	NiMH battery pack
Power Supply	(100 to 240) Vac - Integrated battery charger
Battery Life	850 5 s Tests @ 10 A
SAFETY & ENVIRONMENT	
CAT Rating	CAT III 50 V
IP Rating (Closed Lid)	IP64

Consult factory for NIST Calibration prices.

⁽¹⁾Through DataView® Software

PRODUCT INCLUDES

CAT. #2129.80 MICRO-OHMMETER MODEL 6240

Extra large tool bag, set of (2) 10 ft Kelvin clips (10 A - Hippo), set of (2) 10 ft Kelvin probes (1 A - spring loaded), optical USB cable, power cord, (2) spare fuses, rechargeable battery pack*, and USB drive with DataView® software and user manual. *Can be charged during operation



Includes FREE DataView® software for configuring, data retrieval, real-time display, analysis and report generation

See pages 163 to 165 for Accessories/Replacements

CAT. # DESCRIPTION

2129.80	Micro-Ohmmeter Model 6240 (10 A, Instantaneous, Continuous, Multiple Test, includes 10 ft Kelvin Clips (10 A - Hippo-CAT. #1017.84), 10 ft Kelvin Probes (1 A Spring Loaded, CAT. #2118.73) and DataView® Software)
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MICRO-OHMMETERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6240	6255	6292
	1017.84	Kelvin Clips 10 ft (10 A – Hippo)	•	•	
	2118.70	Kelvin Clips 20 ft (10 A – Hippo)	•	•	
	2118.73	Set of (2) 10 ft Kelvin Probes (1 A, Spring Loaded)	•	•	
	2118.74	Kelvin Probes 20 ft (1 A, Spring Loaded)	•	•	
	2118.77	Kelvin Probes 10 ft (10 A, Spring Loaded)	•	•	
	2118.78	Kelvin Probes 20 ft (10 A, Spring Loaded)	•	•	
	2118.79	Kelvin Clips 10 ft (1 to 10) A	•	•	
	2118.80	Kelvin Clips 20 ft (1 to 10) A	•	•	
	2118.82	Kelvin Clips 10 ft (1A)	•	•	
	2118.84	Kelvin Probes Pistol Grip 10 ft (25 A, Spring Loaded)	•	•	
	2118.85	Kelvin Probes Pistol Grip 20 ft (25 A) Spring Loaded	•	•	
	2119.45	Cable – Replacement PC RS-232, DB9 F/F 6 ft Null Modem Cable		•	
	2129.72	Lead - Replacement, Set of (2) 25 ft Kelvin Lead w/ Hippo Clamp			•
	2129.73	Lead - Set of (2), 50 ft Kelvin Lead w/ Hippo Clamp			•
	2129.86	AC/DC Current Probe Model MR6292			•

MICRO-OHMMETERS

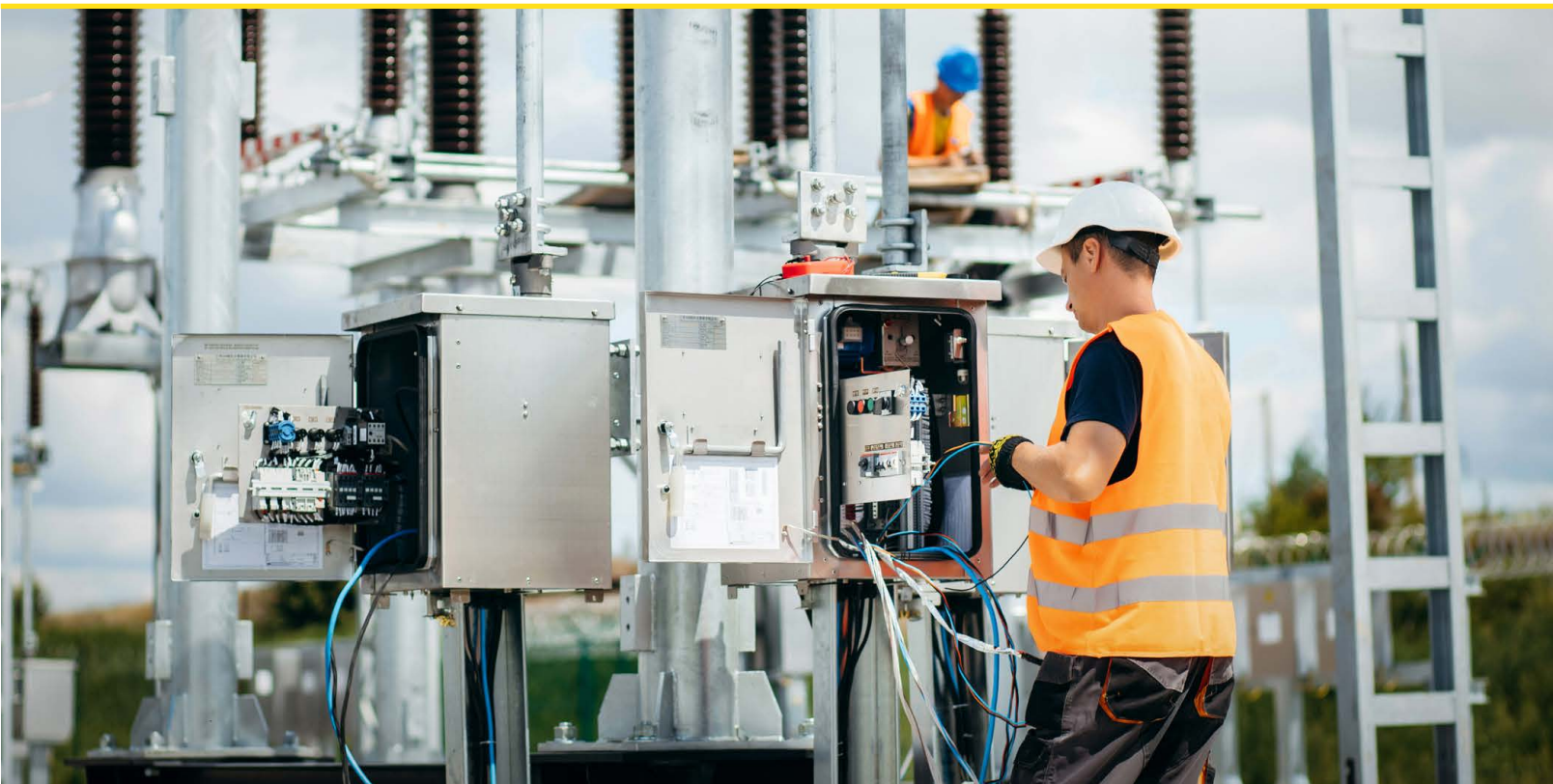
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6240	6255	6292
	2129.87	Lead – Set of (2), 50 ft. Color-coded Kelvin Leads with 3 in C-Clamp			•
	2129.88	Lead – Replacement, 10 ft Earth/Ground (Green) with attached Clamp			•
	2129.89	Lead – Replacement, Set of (2), 20 ft. Color-coded Kelvin Leads with 3 in C-Clamp			•
	2129.91	Battery – Replacement NiMH 6 V 9000 mAh	•	•	
	2129.92	Fuse – Set of (5), 12.5 A, 500 V (Fast Blow), (6.3 x 32) mm	•		
	2129.95	RTD Temperature Probe		•	
	2129.96	RTD Temperature Probe w/ 7 ft Extension Cable		•	
	2129.98	Fuse – Set of (3), 16 A, 250 V (Fast Blow), (6.3 x 32) mm		•	
	2129.99	Fuse – Set of (10), 2 A, 250 V (Fast Blow), (5 x 20) mm		•	
	2130.00	Fuse – Set of (5), 15 A, 250 V (Slow Blow), (5 x 20) mm			•
	2133.72	Small Classic Tool Bag for field use. 12 Exterior and 14 Interior pockets. Dimensions: (13.0 x 9.8 x 9.5) in.	•	•	
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 x 9 x 12) in	•	•	•
	2133.76	Bag - Extra Large Carrying Bag w/ Rubber Bottom	•	•	
	2135.41	Optical USB Cable	•		
	2135.43	Inverter – 12 Vdc to 120 Vac 200 Watt for Vehicle Use	•	•	

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6240	6255	6292
	5000.10	Set of (5) Replacement Screw-On Spaded Lugs	•	•	
	5000.14	Power Cord 115 V	•	•	
	5000.32	Power Cord 220 V	•	•	
	5000.40	Power Cord –Replacement 110 V US			•
	5000.60	Adapter – RS-232 to USB 2.0 Replacement		•	
	5000.62	Pin-Set of (10), Replacement Tips for 1 A Kelvin Probes	•	•	
	5100.02	Latches – Replacement Set of (2) for use with AEMC® Yellow Cases	•	•	



Configure all functions:

- Configure instrument from your PC
- Customize views and templates to your exact needs
- Easily configure all functions and parameters specific to each instrument from your PC
- Create and store a complete library of configurations that can be uploaded to a device as needed
- Create custom views, templates, and reports to your exact needs
- Print all test result reports using our standard report templates or your custom templates
- Free updates available on our website: www.aemc.com



DataView® software, user manual and quick start guide are included in the USB Drive

Index	Name	Value	Units
1	Battery Strap	1.9987	m Ohm
2	Test 2	1.9525	m Ohm
3	Test 3	2.1079	m Ohm

Channel Name	Battery Strap
Measurement Date	10/5/2007
Measurement Time	8:57:47.000 AM
Instrument Model	6240
Test Number	1
Measurement Type	Resistive
Metal Type	---
Measurement Range	40 milli-Ohm
Metal Coefficient	3.93
Volts +I	2.02 mV
Current +I	1.015 A
Tamb	---
Tref	---
Resistance @ (Tamb)	1.99 milli-Ohm
Resistance @ (Tref)	---

Statistical presentation of measurements

Micro-Ohmmeter Model 6240 Configuration Panel

Date Format:
☒ European/JDD/MM/YYYY
☐ USA (MM/DD/YYYY)

Auto Power OFF:
☒ OFF **P**
☐ ON

Power down delay: [0] (1 - 15 minutes)

Buttons: Set Clock, Delete Tests, Write to Instrument, Read from Instrument, Cancel

All set up functions available from one screen

Object 1	User	Company: AEMC Instruments	Site	Company: ABC Company
Test 1	Address 1:	200 Foxborough Blvd	Address 1:	1234 Any Street
Test 2	Address 2:	---	Address 2:	---
Test 3	City:	Foxborough	City:	Your City
Test 4	State:	MA	State:	MA
Test 5	ZIP:	02035	ZIP:	12345
Test 6	County:	---	County:	---
Object 2	Phone:	508-688-2115	Phone:	---
Test 1	email:	---	email:	---
Test 2	Operator:	Jim	Contact:	---
Test 3	Micro-Ohmmeter Model:	6240		
	Serial #	7		
	Measurement Date:	10/5/2007		
	Next Test Date:	---		
	Object:	2		
	Test:	Battery Strap		
	Test Description:			
	Test Range:	40 milli-Ohm		
	Measurement Type:	Resistive		
	Metal Type:	---		
	Metal Coefficient:	---		
	Measurement Temperature:	---		
	Reference Temperature:	2.02 mV		
	Measurement voltage:	1.015 A		
	Resistance Value @ (Tamb):	1.99 milli-Ohm		
	Resistance Value @ (Tref):	---		
	Comments:			

Clean, easy-to-read report of test results

Session Summary Properties

Test: Object | User | Site

Test name: Battery Strap

Measurement date: 10/5/2007

Next measurement date: ---

Description: ---

Comments: ---

Temperature Correction:
☒ °C
☐ °F

Metal Type:
☐ Copper Alpha = 3.93
☐ Aluminum Alpha = 4.03
☐ Other Alpha = [] e-3

Measurement temperature (Tamb): []

Reference Temperature (Tref): []

Buttons: OK, Cancel, Help

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