TEST & MEASUREMENT INSTRUMENTS

VOLUME 26



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YEARS
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MEASUREMENT
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CHAUVIN ARNOUX GROUP

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AVIATION & AEROSPACE INDUSTRY

CLAMP-ON GROUND RESISTANCE TESTERS

Fast, non-intrusive testing without disconnecting ground conductors. Ideal for installed systems.

Model 6416 119
Model 6417 119
Model 6418 119

DIGITAL MULTIMETERS

Meters with non-contact voltage detection for flight-line and hangar diagnostics.

Model 5231 93
Model 5233 93

ELECTRICAL TEST TOOLS

Two-handed live-dead-live tester with multi-meter functions for validating electrical safety.

Model CA 773 103

HANDHELD MEGOHMMETER

Compact, battery-powered insulation testers for wiring harnesses and avionics support equipment.

Model 6536 144

MICRO-OHMMETERS

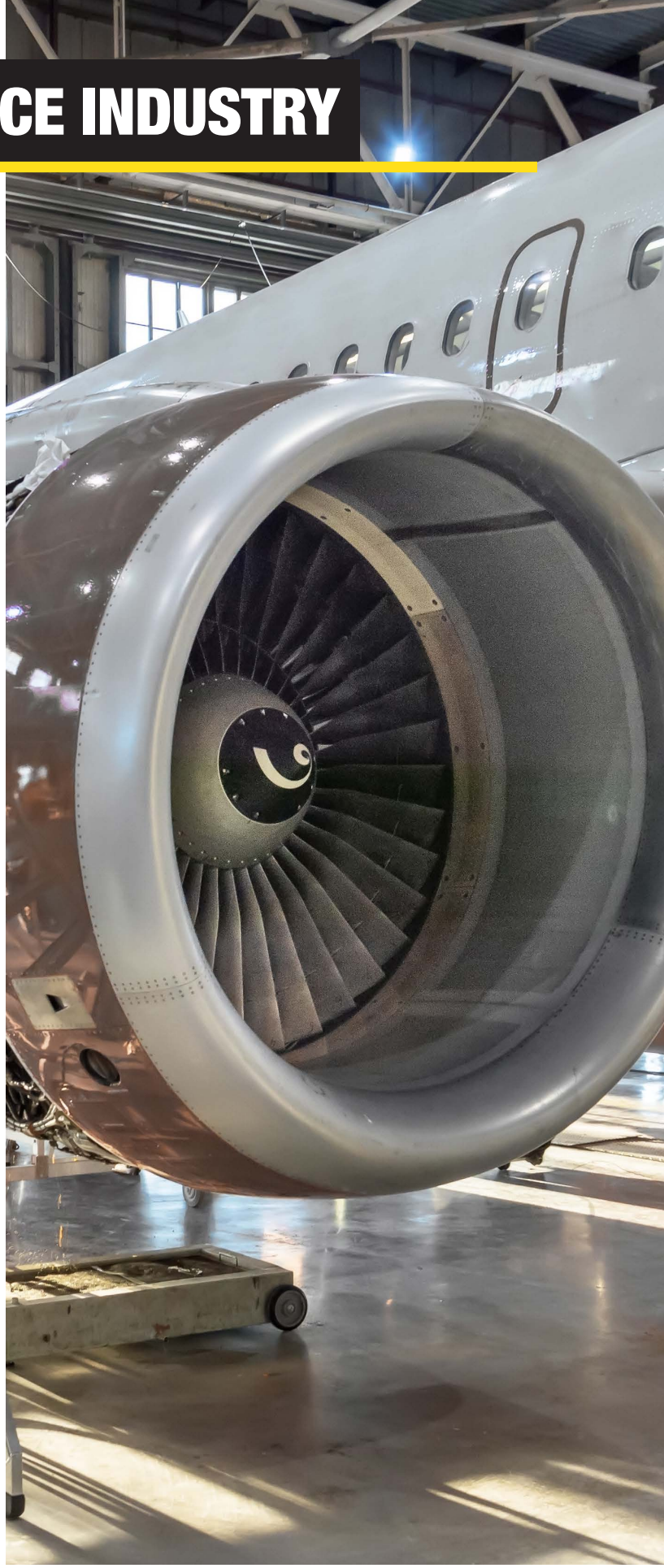
Verify airframe bonds, lightning protection paths, and static grounding points with test currents up to 10 A.

Model 6240 160
Model 6255 161

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129



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CONTRACTOR INDUSTRY

3-POINT GROUND RESISTANCE TESTERS

Designed for Fall-of-Potential testing for commercial, residential, and industrial sites.

Models 6422 & 6424 116

CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors and metal pipes.

Model 6683 42

CLAMP-ON METERS

One-hand operation for measuring AAC, ADC, VAC, resistance, continuity, frequency, TRMS, and other parameters.

Models 407 & 607 46
Model 606 47

DIGITAL MULTIMETERS

Measure a variety of electrical and physical quantities including voltage (AC and DC), resistance, capacitance, frequency and temperature.

Model 5217 92

ENVIRONMENTAL TESTERS

Easy-to-use testing instruments for light, temperature, humidity, and CO_2 tests.

Model 1510 108
Model 1110 109
Model 1246 111

ELECTRICAL TEST TOOLS

Economically priced phase/motor rotation meters, line splitters, voltage and outlet testers employing both contact and non-contact measurement.

Model 275HVD 100
Models 6610, 6611 & 6612 101
Models CA 1725 & CA 1727 102
Model CA 773 103

MULTIFUNCTION INSTALLATION TESTERS

All-in-one testers that verify installation safety, including continuity, insulation resistance, RCD, and loop impedance measurements.

Models CA 6116N & CA 6117 197

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129

POWER ENERGY LOGGERS

Diagnose electrical issues, document power quality, and monitor energy consumption.

Model PEL 112 184
Model PEL 113 185

THERMAL IMAGING IR CAMERA

A real-time, non-contact inspection method that requires no power shutdown, machine shutdown, or production interruption.

Model 1954 202



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DATA CENTER INDUSTRY

CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors and metal pipes.

Model 6683 42

CLAMP-ON METERS

One-hand operation for measuring Aac, Adc, Vac, resistance, continuity, frequency, TRMS, and other parameters.

Models 407 & 607 46
Models 404 & 606 48

DATA LOGGERS

Log, analyze, and report current or voltage data with long-term measurement storage to identify trends, monitor performance, and troubleshoot issues over time.

Model L411 84
Model L461 85

ENVIRONMENTAL TESTERS

Easy-to-use testing instruments for light, temperature, humidity, and CO_2 tests.

Model 1510 108
Model 1110 109
Model 1822 110
Model 1246 111

GROUND RESISTANCE TESTERS

Multifunction ground testers for soil resistivity and Fall-of-Potential testing on large grounding systems.

Model 6471 122
Model 6472 123

MEGOHMMETERS

Verify insulation integrity and ensure electrical circuits operate safely and reliably.

Model 6536 (ESD) Floor Test Kit 146
Model 5050 149
Model 5060 149
Model 5070 150

MICRO-OHMMETERS

Rugged micro-ohmmeters suitable for lab and field use.

Model 6240 160
Model 6255 161
Model 6292 162

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Record and analyze voltage, current, power, energy, and power quality data for load studies, energy audits, and long-term logging.

Model 8345 178
Models 8333 & 8336 180
Model PEL 112 184



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ELEVATOR & ESCALATOR INDUSTRY

CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors and metal pipes.

Model 6683 42

CLAMP-ON METERS

One-hand operation for measuring AAC, ADC, VAC, resistance, continuity, frequency, TRMS, and other parameters.

Model 407 46
Model 607 46
Model 404 48
Model 606 48

DIGITAL MULTIMETERS

Compact and accurate hand-held meters feature non-contact voltage detection for safer, easier troubleshooting.

Model 5212 92
Model 5217 92
Model 5231 93
Model 5233 93

OSCILLOSCOPES

Automatic probe recognition and configuration saves time and ensures proper operation.

Model OX 5042B. 168
Model OX 9304. 170

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011. 129

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Diagnose electrical issues, document power quality, and monitor energy consumption. Pair these power instruments with the special-order J93 AC/DC current probe to measure DC current up to 5000 A.

Model 8345 178
Model 8333 180
Model 8336 180
Model 8436 182
Model PEL 112 184
Model PEL 113 185
Model PEL 115 186

THERMAL IMAGING IR CAMERA

A real-time, non-contact inspection method that requires no power shutdown, machine shutdown, or production interruption.

Model 1954 202



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ENVIRONMENTAL TECHNOLOGY INDUSTRY

2-INPUT SINGLE-CHANNEL DATA LOGGER

TRMS AC/DC voltage quality logger built specifically for distribution monitoring and solar PV applications.

Model L461 85

AC CURRENT DATA LOGGERS

Easy-to-use, rugged data loggers that can be used outdoors.

Model DL913 82
Model DL914 82

CLAMP-ON METERS

Clamp-On meters with a wide range of functions, including solar/PV testing capabilities.

Model 404 48
Model 606 48

ENVIRONMENTAL TESTERS

Easy-to-use testing instruments for light, temperature, humidity, and CO_2 tests.

Model 1510 108
Model 1110 109
Model 1822 110
Model 1246 111

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129

POWER ENERGY LOGGERS

Monitor wind, and hydroelectric energy systems for performance optimization.

Model 8345 178
Model 8436 182
Model PEL 112 184
Model PEL 113 185
Model PEL 115 186

TRANSFORMER RATIOMETER

Verify transformer performance in solar power systems by confirming transformer ratios and identifying winding issues.

Model 8511 208



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HVAC INDUSTRY

CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors and metal pipes.

Model 6683 42

CLAMP-ON METERS

One-hand operation for measuring AAC, ADC, VAC, resistance, continuity, frequency, TRMS, and other parameters.

Model 205 47
Model 505 49

DATA LOGGERS

Accurate, long-term recording of electrical and process measurements.

Model DL913 82
Model L461 85

DIGITAL MULTIMETERS

Measure a variety of electrical and physical quantities including voltage (AC and DC), resistance, capacitance, frequency and temperature.

Model 5217 92

ELECTRICAL TEST TOOLS

Verify and document rotating equipment is operating at the correct speed.

Models 6610 & 6612 101
Model CA 1727 102

ENVIRONMENTAL TESTERS

Easy-to-use testing instruments for light, temperature, humidity, and CO_2 tests.

Model 1510 108
Model 1110 109
Model 1822 110
Model 1246 111

MEGOHMMETERS

Test insulation resistance and perform diagnostic measurements for troubleshooting control wiring.

Model 6529 142
Model 6526 143

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

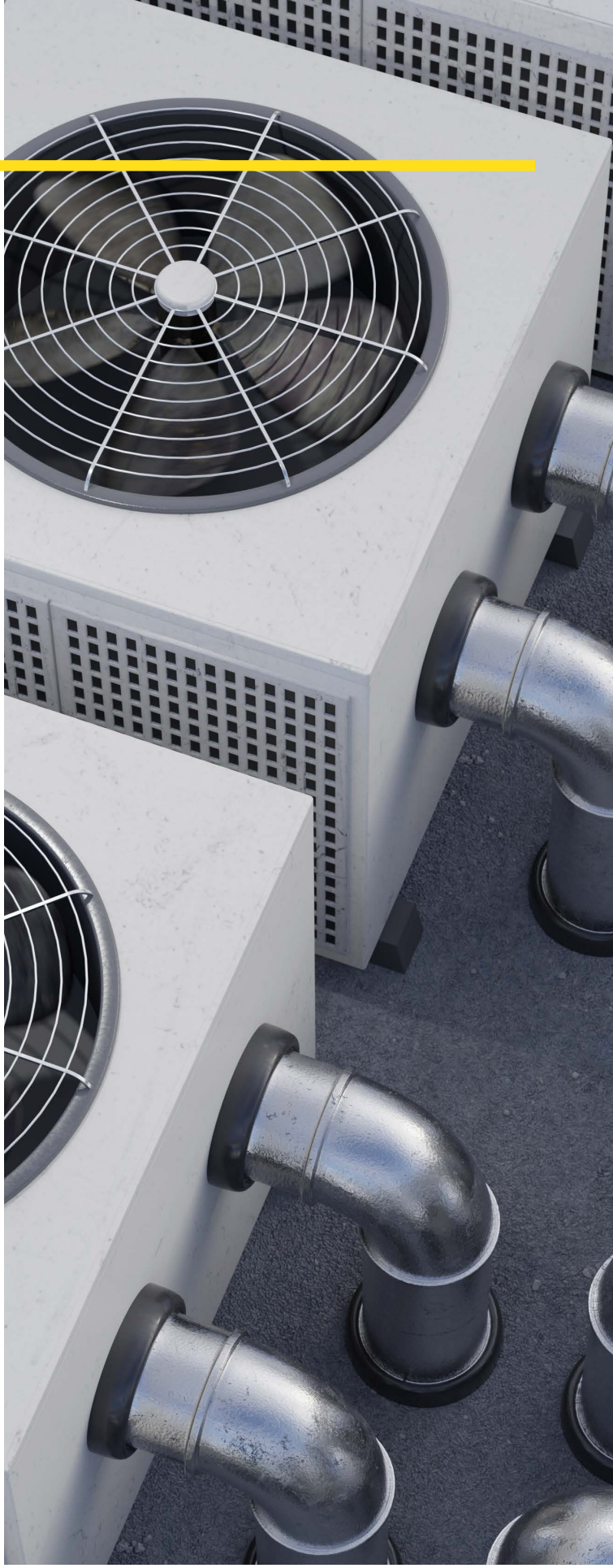
Record and analyze voltage, current, power, energy, and power quality data for load studies, energy audits, and long-term logging.

Model 8345 178
Model PEL 112 184
Model PEL 113 185
Model PEL 115 186

THERMAL IMAGING IR CAMERA

A real-time, non-contact inspection method that requires no power shutdown, machine shutdown, or production interruption.

Model 1954 202



LIGHTNING PROTECTION INDUSTRY

3-POINT GROUND RESISTANCE TESTERS

Designed for Fall-of-Potential testing for commercial, residential, and light industrial sites.

Model 6422 116
Model 6424 116

CLAMP-ON GROUND RESISTANCE TESTERS

Fast, non-intrusive testing without disconnecting ground conductors. Ideal for installed systems.

Model 6416. 119
Model 6417. 119
Model 6418. 119

MICRO-OHMMETER

Precision bonding verification for lightning conductors, ground grids, and mechanical joints.

Model 6240 160

MULTIFUNCTION GROUND & SOIL TESTERS

Advanced instruments for environments with high interference and multiple grounding paths.

Model 6471 122
Model 6472 123

POINT-TO-POINT TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011. 129

RUGGED 4-POINT TESTERS

Durable solutions for soil studies and grounding verification.

Model 4620 118
Model 4630 118



MAINTENANCE INDUSTRY



CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors and metal pipes.

Model 6683 42

CLAMP-ON METERS

One-hand operation for measuring AAC, ADC, VAC, resistance, continuity, frequency, TRMS, and other parameters.

Models 407 & 607 46
Models 404 & 606 48
Models 505 & 514 49

DIGITAL MULTIMETERS

Versatile digital multimeters with True RMS and field-rated safety, covering a full range of electrical troubleshooting.

Models MTX 3290 & 3291 94
Model MTX 3293B 95

ELECTRICAL TEST TOOLS

Economically priced phase/motor rotation meters, voltage and outlet testers employing both contact and non-contact measurement.

Model 275HVD 100
Models 6611 & 6612 101
Model CA 773 103

MEGOHMMETERS

Rugged, weather resistant meters are accurate, reliable and built to perform. Battery, AC powered, and hand-cranked models are available.

Model 6503 140
Model 6529 142
Models 6522 & 6526 143
Models 5050 & 5060 149
Model 5070 150
Models 6550 & 6555 151

OSCILLOSCOPES

Ergonomic, hand-held oscilloscopes with multiple modes: oscilloscope, multimeter, and analyzer.

Model OX 5042B 169
Models OX 9062, OX 9102, OX 9104 & OX 9304 170

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Record and analyze voltage, current, power, energy, and power quality data for load studies, energy audits, and long-term logging.

Model 8345 178
Model PEL 112 184
Model PEL 113 185
Model PEL 115 186

THERMAL IMAGING IR CAMERA

A real-time, non-contact inspection method that requires no power shutdown, machine shutdown, or production interruption.

Model 1954 202

MARITIME INDUSTRY

CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors and metal pipes.

Model 6683 42

CLAMP-ON METERS

One-hand operation for measuring Aac, Adc, Vac, resistance, continuity, frequency, TRMS, and other parameters.

Model 607 46
Model 400D 52
Model 4000D 52

DIGITAL MULTIMETERS

Versatile digital multimeters covering a full range of electrical troubleshooting.

Models 5217 92
Models MTX 3291. 94

MEGOHMMETERS

Rugged, weather resistant meters are accurate, reliable and built to perform.

Model 6503 140
Model 5050 149
Model 6529 142
Model 6526 143

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Record and analyze voltage, current, power, energy, and power quality data for load studies, and long-term logging.

Model 8345 178
Model PEL 113 185

THERMAL IMAGING IR CAMERA

A real-time, non-contact inspection method that requires no power shutdown, machine shutdown, or production interruption.

Model 1954 202



MEDICAL & PHARMA INDUSTRY



CLAMP-ON GROUND RESISTANCE TESTERS

Confirm ground integrity on installed systems without de-energizing critical circuits.

Model 6416 119
Model 6417 119

DATA LOGGERS

Accurate, long-term data logging of electrical and process measurements with fast, easy setup.

Model DL913 82
Model DL914 82
Model L412 84

ENVIRONMENTAL TESTERS

Verify air quality and lighting levels in patient and procedure areas.

Model 1510 108
Model 1110 109
Model 1822 110

LEAKAGE CURRENT METERS & PROBES

Measure the low AC leakage currents critical to patient-care area electrical safety.

Model 566 137

MEGOHMMETERS

Battery-powered insulation checks on receptacle circuits and facility wiring.

Model 6522 143
Model 6526 143

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Continuous logging of the power feeding imaging suites, labs, and life-safety branches.

Model PEL 112 184
Model PEL 113 185
Model PEL 115 186

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MINING INDUSTRY

CLAMP-ON METERS

Large-jaw TRMS measurement on feeder cables, drag lines, and portable power distribution.

Model 607 46

MEGOHMMETERS

Insulation testing suited to remote sites and harsh duty.

Model 6503 140
Model 5050 149
Model 5060 149
Model 5070 150

LEAKAGE CURRENT METERS & PROBES

Detect low-level AC leakage in ground conductors before it becomes a protection trip or a hazard.

Model 566 137

MULTIFUNCTION GROUND & SOIL TESTERS

Ground electrode, soil resistivity, and bonding measurements in a single field instrument.

Model 6471 122

POINT-TO-POINT CONTINUITY TESTER

Wearable continuity tester for confirming low-resistance paths across large conductive structures.

Model CA 6011 129



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RAIL INDUSTRY

CLAMP-ON METERS

TRMS measurement on feeder cables, drag lines, and portable power distribution.

Model 607 46
Model 4000D 52

GROUND RESISTANCE TESTERS

Soil resistivity and Fall-of-Potential measurements built to withstand right-of-way field conditions.

Model 4620 118
Model 4630 118
Model 6416 119
Model 6471 122

MEGOHMMETERS

Test insulation resistance and perform diagnostic measurements for troubleshooting control wiring.

Model 5070 150
Model 6555 151

MICRO-OHMMETERS

Confirm the integrity of rail bonds, track joints, and traction power connections.

Model 6240 160
Model 6255 161
Model 6292 162

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

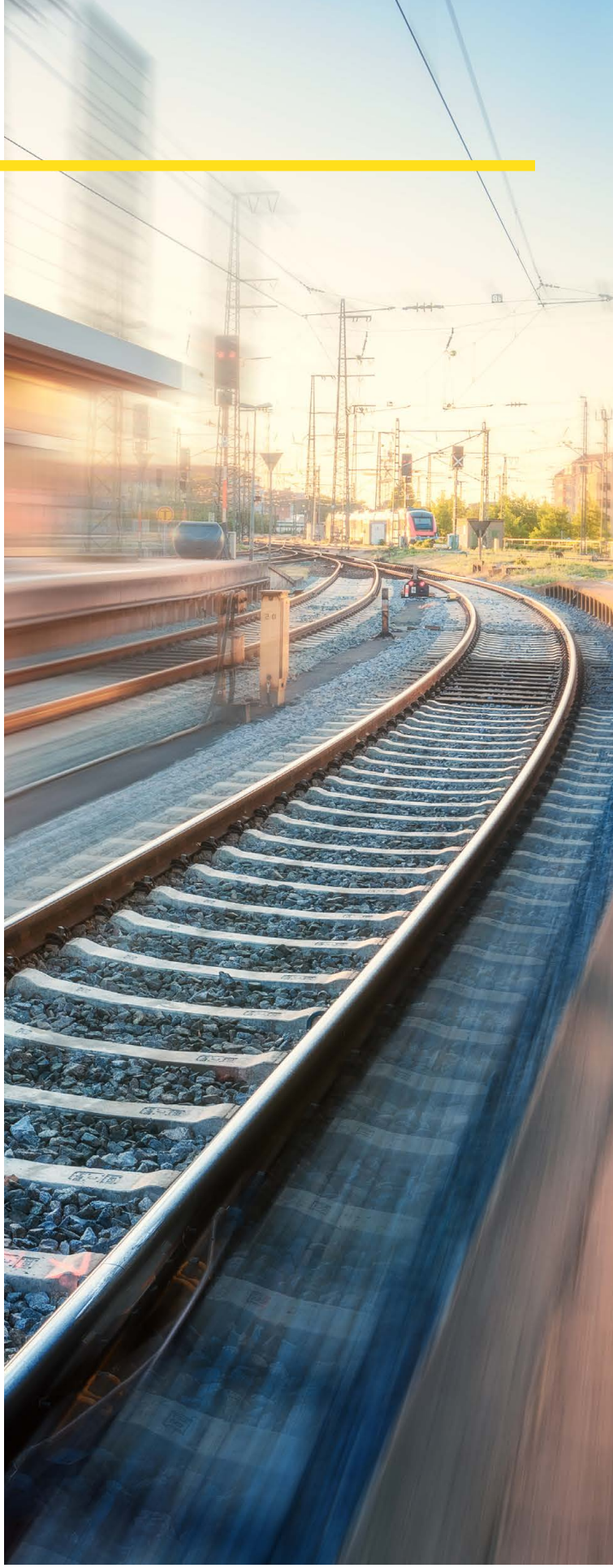
Log voltage, current, power, and energy on traction and wayside power systems over extended periods.

Model 8345 178
Model PEL 112 184
Model PEL 113 185

THERMAL IMAGING IR CAMERA

Non-contact inspection of switchgear, catenary connections, and rolling stock components.

Model 1954 202



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SEMICONDUCTOR INDUSTRY

ENVIRONMENTAL TESTERS

Monitor light, temperature, and humidity in clean room and metrology spaces.

Model 1510 108
Model 1110 109
Model 1246 111

MEGOHMMETERS

Perform 1 kV insulation testing to ensure electrical circuits are safe and reliable.

Model 6503 140
Model 6527 141
Model 6529 142
Model 6522 143
Model 6526 145
Model 1060 147

MULTIFUNCTION GROUND & SOIL TESTERS

Designed for interference-rich facilities with multiple parallel grounding paths.

Model 6472 123

OSCILLOSCOPES

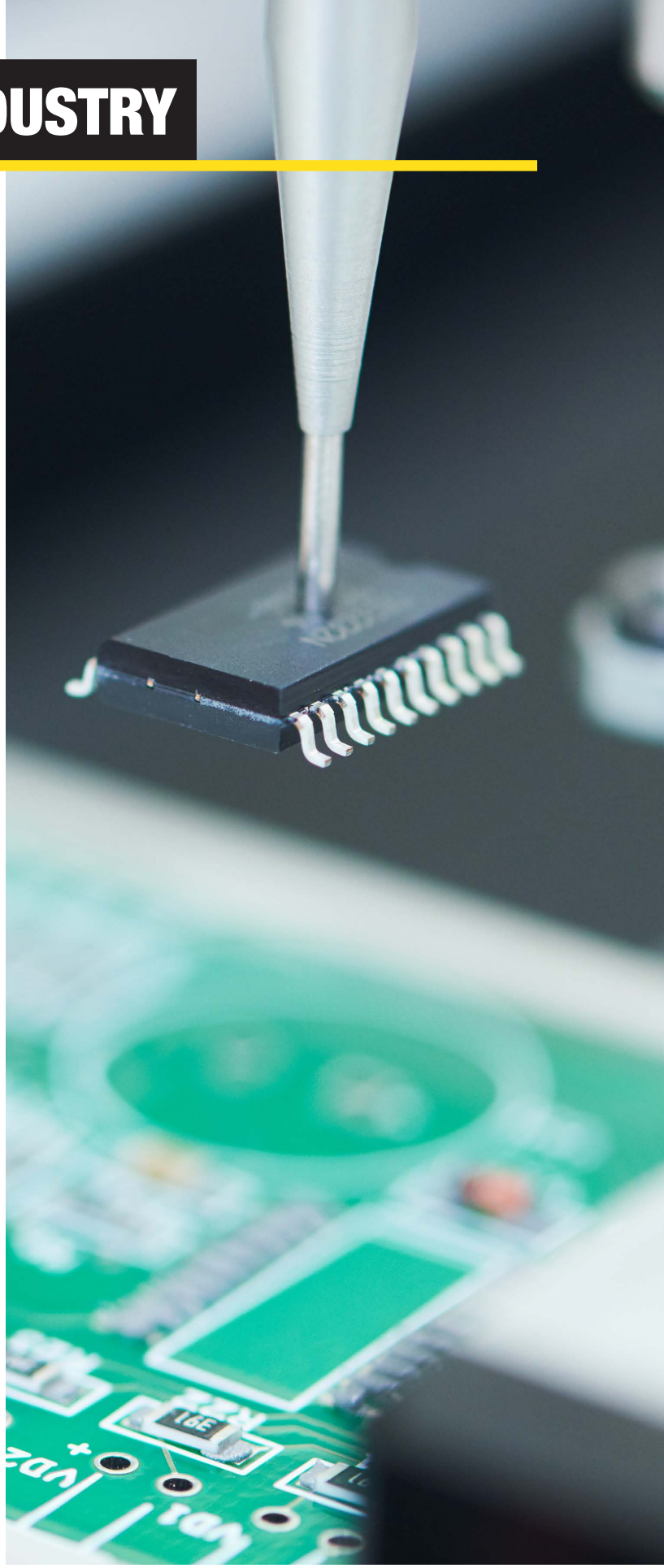
Portable, isolated-channel scopes with automatic probe recognition and configuration for on-tool troubleshooting.

Model 0X 5042B. 168

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Capture sags, swells, transients, and harmonics that threaten sensitive process equipment.

Model 8333 180
Model 8336 180



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TELECOM INDUSTRY

3- AND 4-POINT GROUND RESISTANCE TESTERS

Fall-of-Potential instruments for verifying tower and shelter grounds to the industry's most rigorous grounding standards.

Model 6422 116
Model 6424 116
Model 6471 122
Model 6472 123

AC CURRENT DATA LOGGERS

Rugged, weatherproof data loggers for monitoring site power draw indoors and outdoors.

Model DL913 82
Model DL914 82

CABLE VERIFICATION & TRACING ANALYZER

Locate, trace, and verify cables, conductors, and metal pipes before excavation or expansion.

Model 6683 42

THERMAL IMAGING IR CAMERA

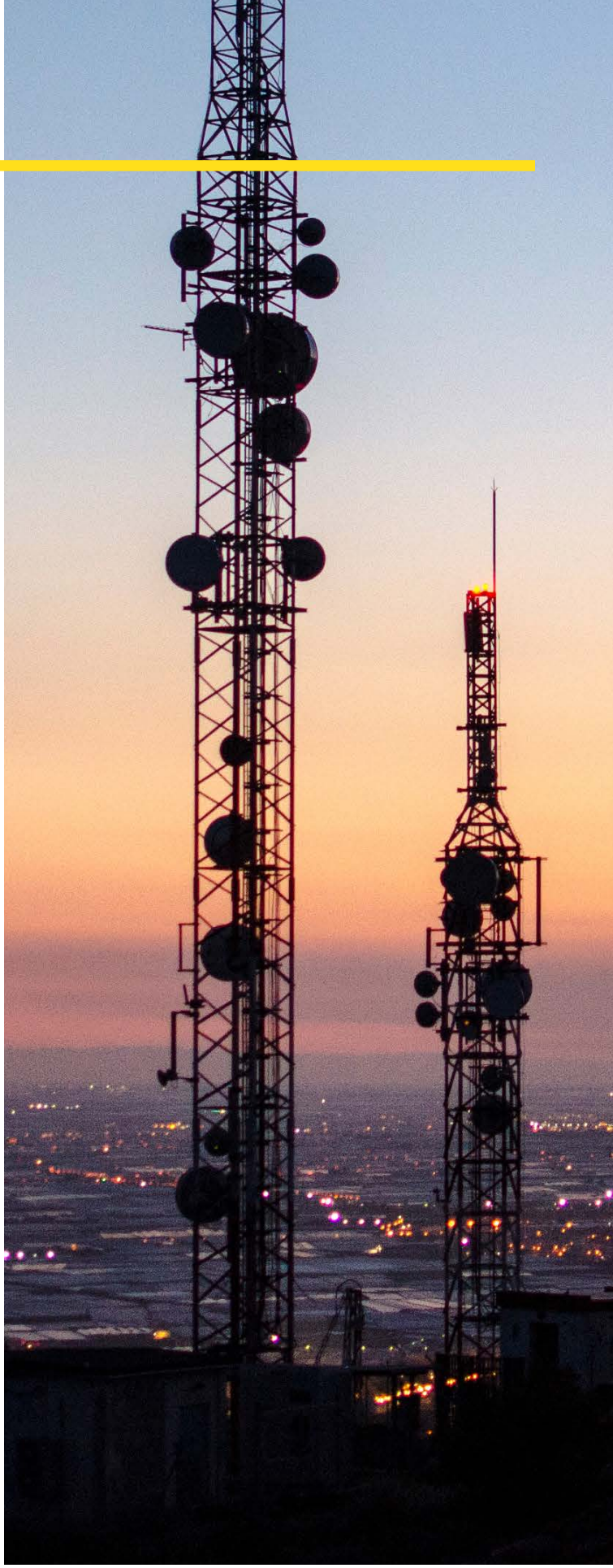
Rapid scanning of rectifiers, battery plants, and RF equipment for thermal anomalies.

Model 1954 202

TOWER TESTER

Revolutionize tower grounding assessment with our innovative kit.

GroundFlex® Field Kit 126



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TRAFFIC CONTROL INDUSTRY

3-POINT GROUND RESISTANCE TESTERS

Designed for Fall-of-Potential testing for commercial, residential, and light industrial sites.

Model 6422 116
Model 6424 116

4-POINT GROUND RESISTANCE TESTERS

Ideal for both soil resistivity and Fall-of-Potential testing.

Model 4620 118
Model 4630 118
Model 6471 122

BOND AND CONTACT RESISTANCE

Both models also use a four-wire Kelvin Bridge method, which eliminates test lead resistance for best measurement accuracy.

Model 6240 160
Model 6255 161

CLAMP-ON GROUND RESISTANCE TESTERS

Fast, non-intrusive testing without disconnecting ground conductors. Ideal for installed systems.

Model 6416. 119
Model 6417. 119

DIGITAL & MULTI-FUNCTION MEGOHMMETER

Quickly verify insulation quality to ensure safety and reduce downtime.

Model 6529 142

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Record and analyze voltage, current, power, energy, and power quality data for load studies, energy audits, and long-term logging.

Model 8345 178
Model PEL 112 184
Model PEL 113 185



UTILITY INDUSTRY

CLAMP-ON METERS

One-hand operation for measuring AAC, ADC, VAC, resistance, continuity, frequency, TRMS, and other parameters.

Model 607 46
Models 404 & 606 48

ELECTRICAL TEST TOOLS

Economically priced meters, voltage and outlet testers employing both contact and non-contact measurement.

Model 275HVD 100
Model CA 773 103

GROUND RESISTANCE TESTERS

Fast, non-intrusive testing without disconnecting ground conductors.

Models 6416, 6417 & 6418 119
Model 6471 122
Model 6472 123
GroundFlex® Field Kit 126

MEGOHMMETERS

Rugged, weather resistant meters are accurate, reliable and built to perform.

Model 6529 142
Model 6526 143
Models 5050 & 5060 149
Model 5070 150
Models 6550 & 6555 151

MICRO-OHMMETERS

Precisely measure very low electrical resistance values to correctly diagnose problems in electrical bonds, contacts and other connections.

Model 6240 160
Model 6255 161
Model 6292 162

OSCILLOSCOPES

Automatic probe recognition and configuration saves time and ensures proper operation.

Model OX 5042B 168
Model OX 9304 170

POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS

Record and analyze voltage, current, power, energy, and power quality data for load studies, energy audits, and long-term logging.

Model 8345 178
Model 8333 180
Model 8436 182
Model PEL 113 185
Model PEL 115 186

THERMAL IMAGING IR CAMERA

A real-time, non-contact inspection method that requires no power shutdown, machine shutdown, or production interruption.

Model 1954 202

TRANSFORMER TURNS RATIOMETER

Engineered to make transformer testing faster, safer, and more reliable.

Model DTR® 8511 208





COMPANY PROFILE

WHO WE ARE

AEMC® Instruments stands as a beacon of excellence in the field of test and measurement instruments. With a rich history dating back to 1976 when we began operations in downtown Boston, Massachusetts, and strong affiliations with Chauvin Arnoux® S.A.S. in France, founded in 1893, our legacy is built upon over 130 years of expertise in test and measurement instruments.

Our corporate headquarters in Dover, NH, is a hub of sales, marketing, engineering, production, technical support, and NIST calibration. AEMC® Instruments 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.

WHY WE MATTER

AEMC® Instruments manufactures professional electrical test and measurement instruments for the industrial, commercial and utility marketplace.

We are the worldwide leading manufacturer of current measurement probes and an industry leader in ground resistance testers, insulation resistance testers, and power/energy quality analyzers, meters and loggers.

Our Megohmmeter line, tracing its origins to the early 1900s, has evolved into a digital marvel, boasting intelligent features like timers, alarms, variable test voltages, and advanced data management capabilities.

Our ground resistance testing instruments date back to the 1930s. We revolutionized the market with clamp-on testers, eliminating system disconnections and auxiliary rods. Today, we lead the industry with Fall-of-Potential ground testing solutions that automate and simplify testing processes, saving time, money, and enhance operator safety.

Our tower test system is another testament to our innovation, allowing testing without de-energizing or removing overhead ground conductors, offering significant cost savings and safety improvements.

Our Static Ground and Bond Test System Kit is a comprehensive set that encompasses all the essential components required at a HAZMAT transfer site ensuring the safety of first responders and hazmat teams.

We also offer a wide range of Power and Power Quality measuring instruments, including clamp-on meters, power quality analyzers, digital power meters, and Power & Energy Loggers (PEL) that can monitor usage and costs from anywhere in the world.

Our proprietary DataView® software, streamlines configuration, testing, data storage, and report generation. Our commitment to user-friendly interfaces extends to tablet and smartphone apps, ensuring universal communication.

We are dedicated to enhancing testing education through technical training in order to improve education, help save lives in the field, and reduce operational costs. We matter because we care. We care about the quality of our products, end user safety, timely and knowledgeable customer and technical support, and the sustainability of our planet.

TIMELINE



RENÉ ARNOUX



RAPHAËL CHAUVIN



OUR FIRST MEGOHMMETER



TRANSFORMER CLAMP



CLAMP-ON GROUND TESTER MODEL 3710



CURRENT PROBE MODEL K100

1893 Founding of the company in France by René Arnoux and Raphaël Chauvin and still a leader in the test and measurement instrument industry

1900 Our Megohmmeter line finds its roots when Chauvin Arnoux® introduced its first model made from a galvanometer and a decade resistance box combined with a DC power source

1930 Our Ground Tester line finds its roots. A null balance galvanometer, a resistance box, and a DC power source were combined to create one of the earliest ground testers available

1934 Invention of the Transformer Clamp — the first current clamp

1976 AEMC® Instruments founded in downtown Boston, MA

1986 Inventory moved to Dover, NH and Purchasing followed

1993 Introduced revolutionary Clamp-On Ground Tester Models 3710 and 3730 *(proved to be amazing ground testers for over thirty years)*

1994 The CA 6411 and CA 6413 Earth Clamps inaugurate a new concept: a rapid control of interconnected earth loops

1996 Our US engineers designed a new AC/DC current probe Models K100 and K110 which measure extremely low-level DC Amps

1997 AEMC® Corporation and Instrumentation Corporation *(US manufacturer of current probes)* legally adopted the name Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments

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MEASUREMENT EXPERTS

130
Years of Development

Our products are backed by over 130 years of experience in test and measurement instruments, and encompass the latest international standards for quality and safety.

11%
of Revenue Invested in R&D

With nearly 11% of its revenues currently invested in Research and Development every year, the Chauvin Arnoux® Group has always been proud of the priority given to in-house design and development of its electrical measuring instruments. An important part of the Group's strategy, R&D at Chauvin Arnoux® is based on the two keywords: *Engineer Manufacturer.*

6
R&D Departments Worldwide

- Paris, France
- Antony, France
- Annecy, France
- Lyon, France
- Dover, USA
- Milan, Italy

8
Production Sites Worldwide

- 3 in Normandy, France
- 1 in Lyon, France
- 1 in Montpellier, France
- 1 in Milan, Italy
- 1 in Dover, USA
- 1 in Shanghai, China

10
Subsidiaries Across the World

- Austria
- China
- Germany
- Great Britain
- Italy
- Lebanon
- Spain
- Sweden
- Switzerland
- United States

1000
Worldwide Employees

The quality of our products and services, like the level of productivity, the lead times and the environmental impact, is the result of work by our efficient professionals. The keystone of employees relations is respect for the individual.

ECO-DESIGN
Quality Standards and Eco-responsible Approach

In our partner labs, rigorous quality checks and tests occur throughout the design and production process. This includes functional, metrological, mechanical, climatic, electromagnetic compatibility, electrical safety, aging tests, and more.

The ISO 9001 certification for design and ISQ 14001 certification for manufacturing and sales highlight our company's commitment to aligning business practices with environmental protection.

Intertek

WHY AEMC® INSTRUMENTS?

Our commitment to product reliability, exceptional customer support, and expert technical assistance is unwavering.

Our focus spans residential, industrial, commercial, and utility sectors, delivering solutions that meet top international quality and safety standards.

Innovation is in our DNA. We are proud to be the global industry leader in current measurement probes, setting benchmarks in ground resistance testers, insulation resistance testers, and power and energy quality analyzers, meters, and loggers.

Education is at the core of our mission. AEMC® Instruments offers technical training seminars and webinars, empowering individuals with the knowledge to conduct resistance testing and power quality analysis safely and efficiently.

With a legacy built on over a century of experience, a dedication to innovation, and a commitment to customer success, we stand as the industry's foremost choice for reliability, accuracy, and excellence.

Experience the AEMC® Instruments difference today!


POWER QUALITY LOGGER MODEL PQL 100


OSCILLOSCOPES MODEL 7104


GROUNDFLEX® FIELD KIT MODEL 6474


CLASS A IV POWERPAD® MODEL 8345


DTR® MODEL 8511


PEL 113

1998 Our US engineers introduced Ratiometer DTR® Model 8500 which today is in its third generation and still among our top sellers

1999 AEMC® DataView® software, designed to configure instruments, run tests, download and store results, and generate final reports was added to product offerings

2001 Introduced our DataView® software with our Power Quality Logger PQL series

Launch of the PowerPad® family of three-phase electrical network analyzers

2004 Launch of the Scopix family of portable Metrix® Oscilloscopes with isolated channels

2006 AEMC® pioneered Fall-of-Potential ground testing by introducing an automated tester that seamlessly identifies the optimal testing frequency and calculates all soil resistivity test results

2008 Introduced the groundbreaking GroundFlex® Field Kit Model 6474, better known as a Tower Tester, capable of measuring ground resistance of power transmission tower legs individually and determine the total resistance without disconnecting the overhead ground wire

2012 Revolutionized the field of InRush current measurement with our True InRush® technology, seamlessly integrated with the recording capabilities of the PEL 100 recorders and the smallest oscilloscope: the HandScope

2022 The unveiling of the inaugural Class A certified device, the PowerPad® IV Model 8345, with the highest safety rating in the industry of 1000 V CAT IV

2026 Building on the success of the DTR® 8500 and 8510, the DTR® 8511 brings advanced transformer testing to the next generation

The PEL 110 Series expands energy monitoring solutions with versatile power and energy loggers designed for today's electrical systems

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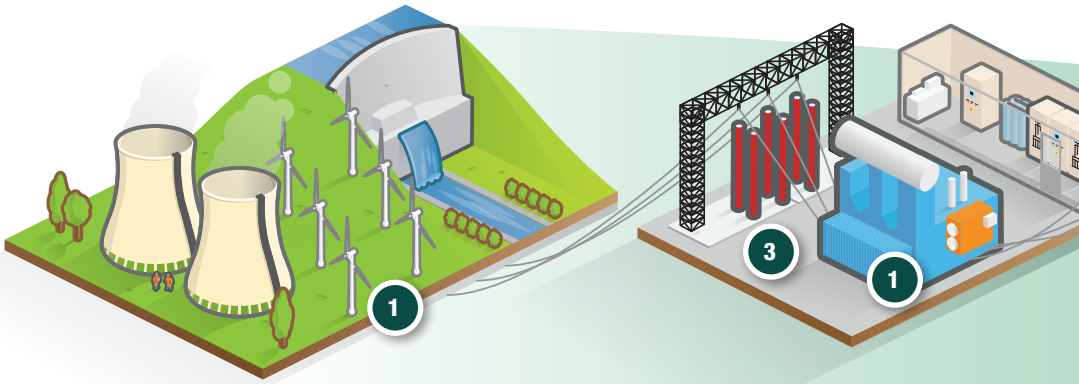
APPLICATIONS: GENERATION, TRANSMISSION & DISTRIBUTION

GROUND RESISTANCE TESTING





1 Soil resistivity and ground measurement

GROUND RESISTANCE TESTER MODEL 6471



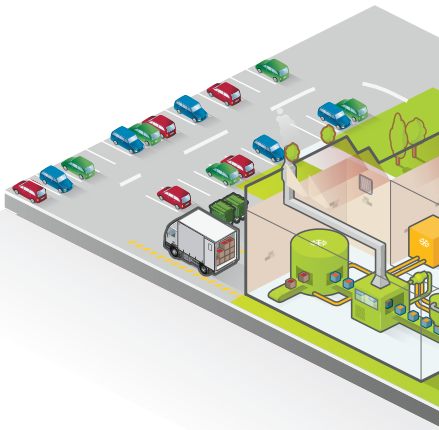
2 Footing Impedance measurements on transmission towers

GROUND RESISTANCE TESTER MODELS 6472 & 6474



3 Point-to-Point continuity test for substation ground mats

GROUND RESISTANCE TESTER MODELS 4620 & 4630



ACCEPTANCE TESTING



4 Measure continuity and bond integrity of grounds

GROUND RESISTANCE TESTERS MODELS 6416 & 6417



MICRO-OHMMETER MODEL 6240



5 Circuit-breakers

MICRO-OHMMETER MODEL 6292



6 15 kV insulation testing

MEGOHMMETER MODEL 6555



7 Current measurements

CLAMP-ON METER MODEL 607



Verify winding continuity and measure turns ratio of transformers

DIGITAL TRANSFORMER RATIOMETER DTR® MODEL 8511



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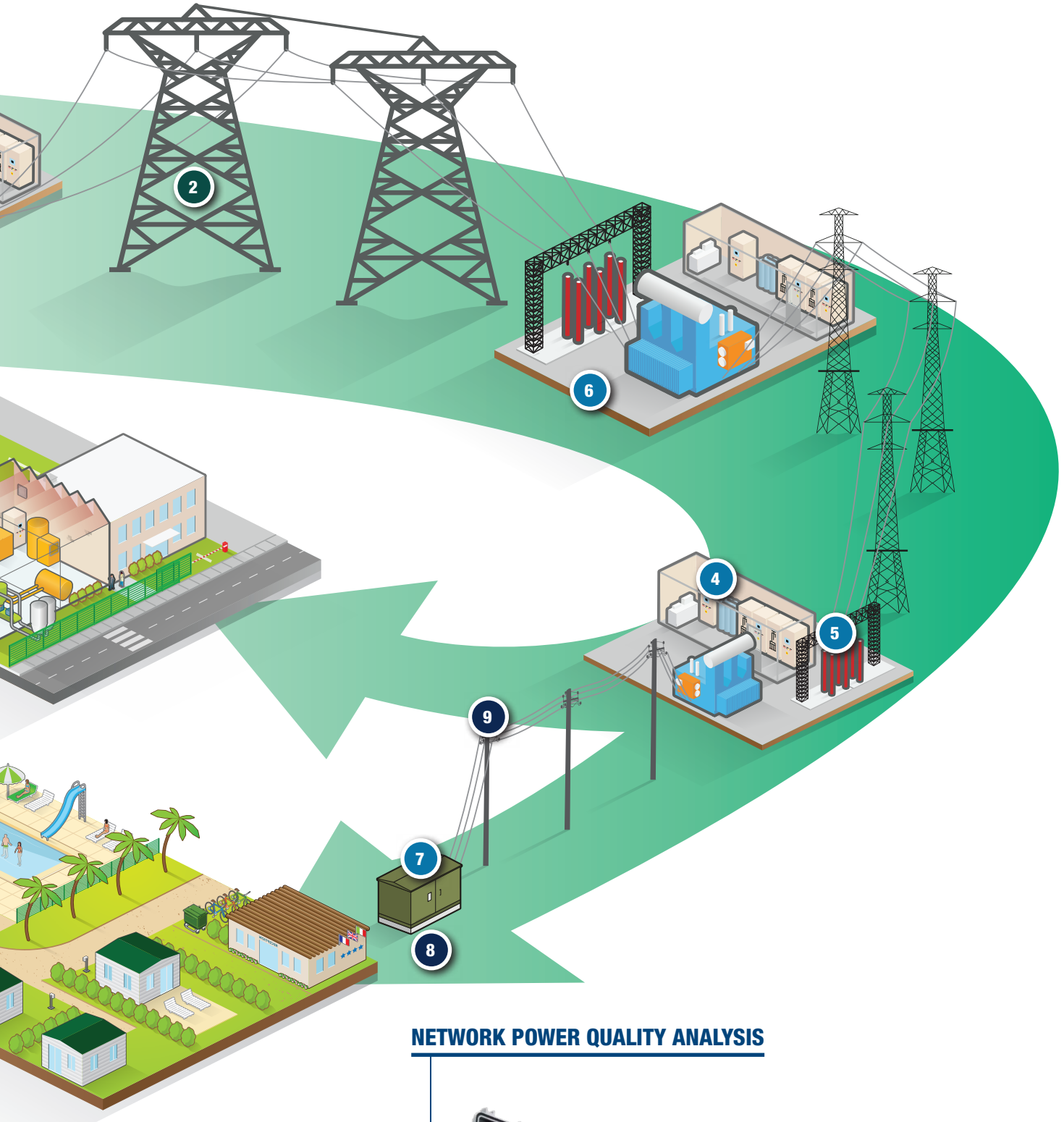

NETWORK POWER QUALITY ANALYSIS



8 Electrical consumption monitoring

POWER & ENERGY LOGGER MODEL PEL 115



9 Analysis of electrical network quality

POWER QUALITY ANALYZER POWERPAD® IV, CLASS A, MODEL 8345

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APPLICATIONS: MANUFACTURING & DATA CENTER MAINTENANCE TESTING

SWITCHGEAR AND ELECTRICAL PANEL TESTING



1 Verify low resistance of bolted connections and contacts

MICRO-OHMMETER
MODEL 6240



Measure insulation quality of cables and electrical apparatus

MEGOHMMETER
MODEL 5050



Power factor and harmonic analysis

POWERPAD® III
MODEL 8336



2 Record voltage sags and swells at utility transformers and distribution panels

DATA LOGGER
MODEL L461



3 Monitor equipment voltage disturbances

POWERPAD® III
MODEL 8333



4 Monitor power quality concerns at utility transformers

POWERPAD® III
MODEL 8436

ENVIRONMENTAL TESTING



5 Sound

SOUND LEVEL METER
MODEL CA832



6 Lighting

LIGHTMETER DATA LOGGER
MODEL 1110



7 Humidity

THERMO-HYGROMETER
DATA LOGGER
MODEL 1246



8 Air quality

AIR QUALITY LOGGER
MODEL 1510

Electrical Network

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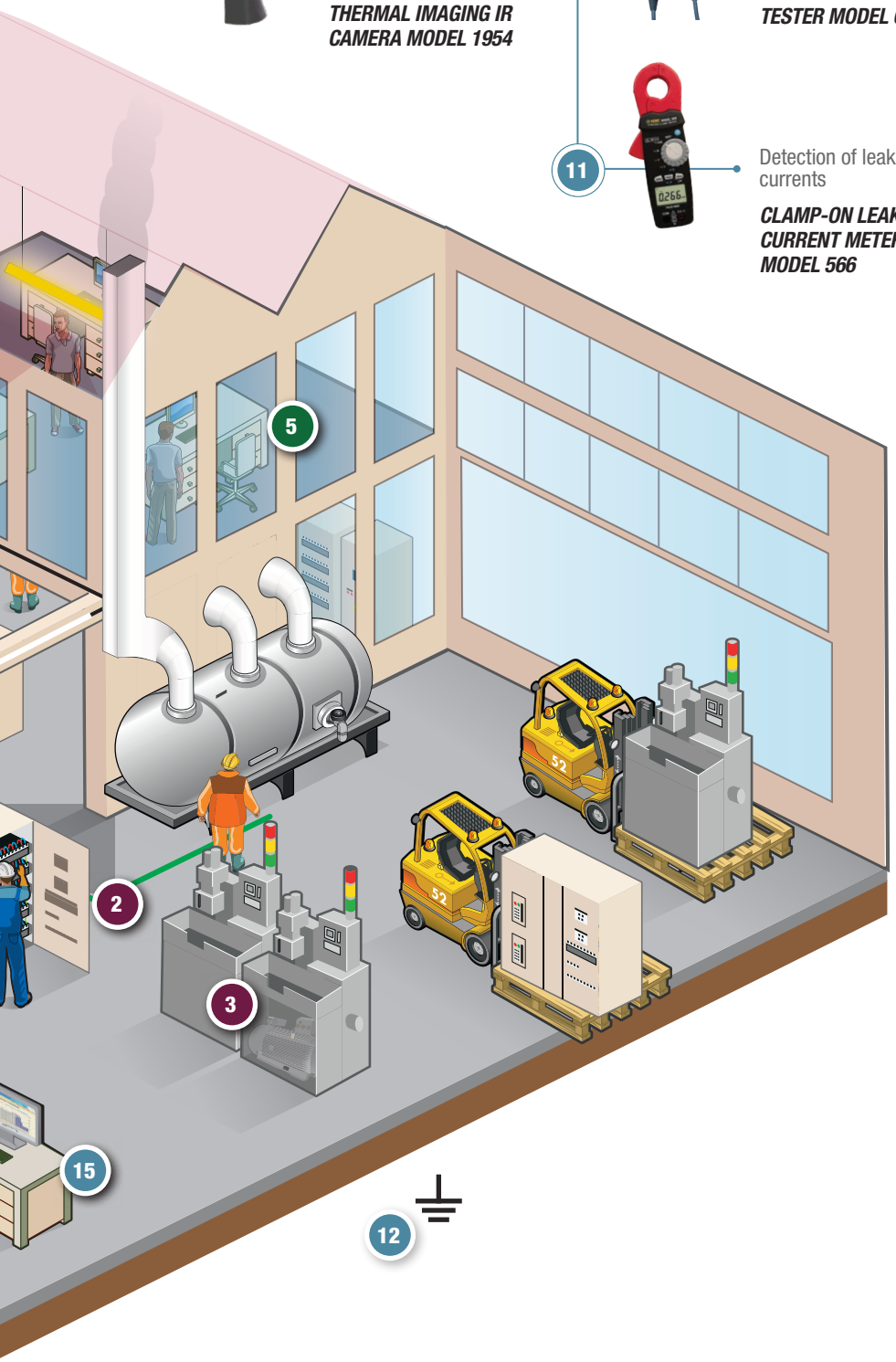
AEMC® INSTRUMENTS

INDUSTRIAL MAINTENANCE



9



Electrical or mechanical thermography

THERMAL IMAGING IR CAMERA MODEL 1954

10



Absence of voltage

VOLTAGE ABSENCE TESTER MODEL CA 773

11

Detection of leakage currents

CLAMP-ON LEAKAGE CURRENT METER MODEL 566

12



Verify resistance to earth of grounding electrodes

GROUND RESISTANCE TESTER MODELS 6416 & 6417

13



Test insulation quality of motors

MEGOHMMETER MODEL 6529



MEGOHMMETER MODELS 6522 & 6526

14



Load study measurements

POWER & ENERGY LOGGER MODEL PEL 113

15



Voltage transient and multi-cycle disturbance analysis

POWERPAD® IV, CLASS A, MODEL 8345

16



Verify continuity of equipment ground conductors and structure bonds

CONTINUITY TESTER MODEL CA 6011

17



Log AC current on motors and industrial equipment across two channels to monitor load and detect overloads

DATA LOGGER MODEL L412

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APPLICATIONS: POWER DISTRIBUTION (SWITCHGEAR)

CURRENT TRANSFORMERS



1 AC/DC voltages and current measurements

HARMONIC ANALYZER MODEL OX 5042B



2 Verify winding continuity and measure turns ratio of transformers

DTR® MODEL 8511

BREAKERS



3 5 kV insulation resistance testing

MEGOHMMETER MODEL 5060



4 Verify low resistance of bolted connections and contacts

MICRO-OHMMETER MODEL 6240



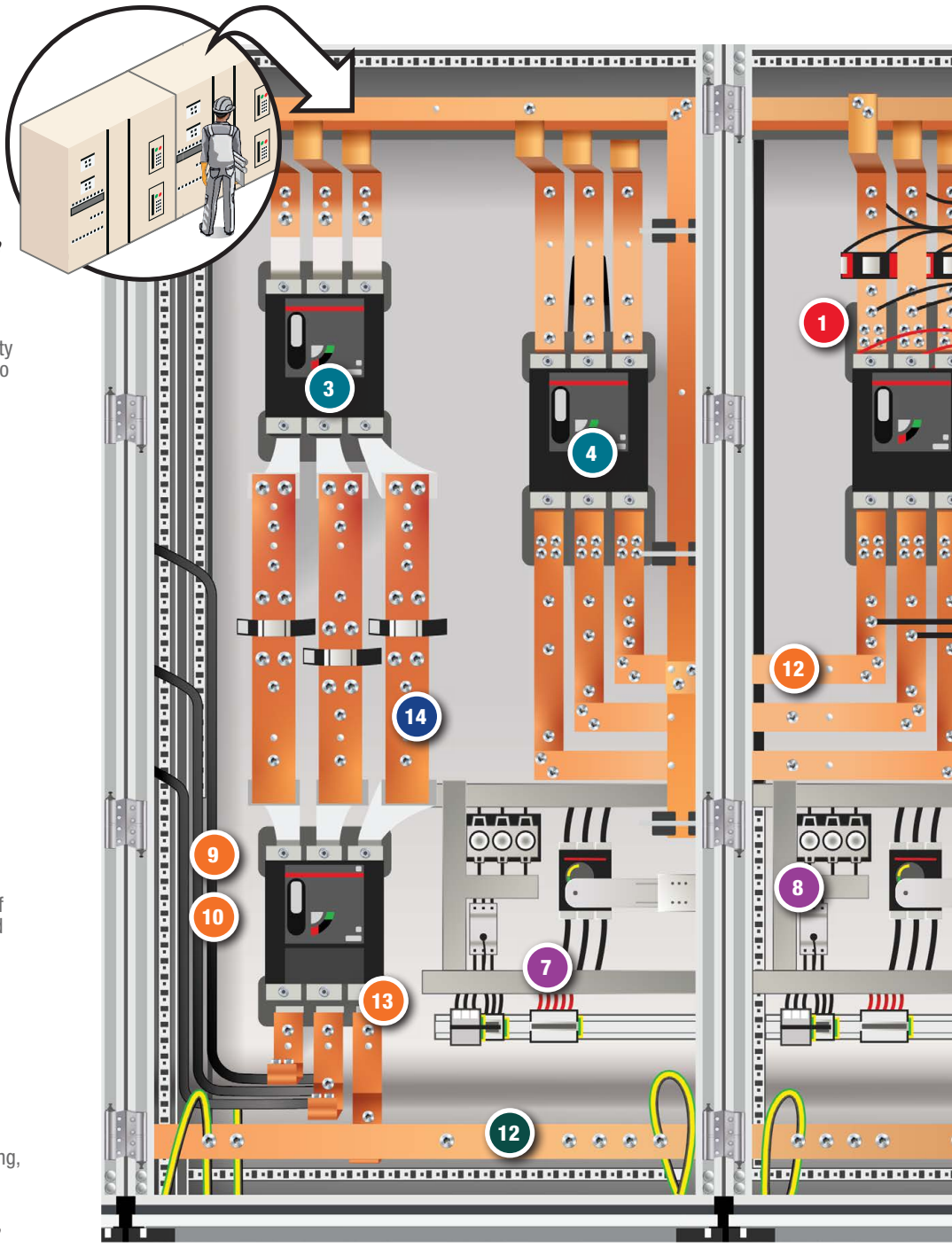
5 Infrared thermal imaging, real-time non-contact inspection method

THERMAL IMAGING IR CAMERA MODEL 1954



6 Measure voltage, current, resistance, millivolt drop test

HARMONIC ANALYZER MODEL OX 5042B & MEGOHMMETER MODEL 6529



PROTECTIVE RELAYS



7 Insulation, resistance, and continuity testing

HARMONIC ANALYZER MODEL OX 5042B & MEGOHMMETER MODEL 6529



8 Measure voltage drop, AC/DC milliAmp currents

DIGITAL MULTIMETER MODEL MTX 3290

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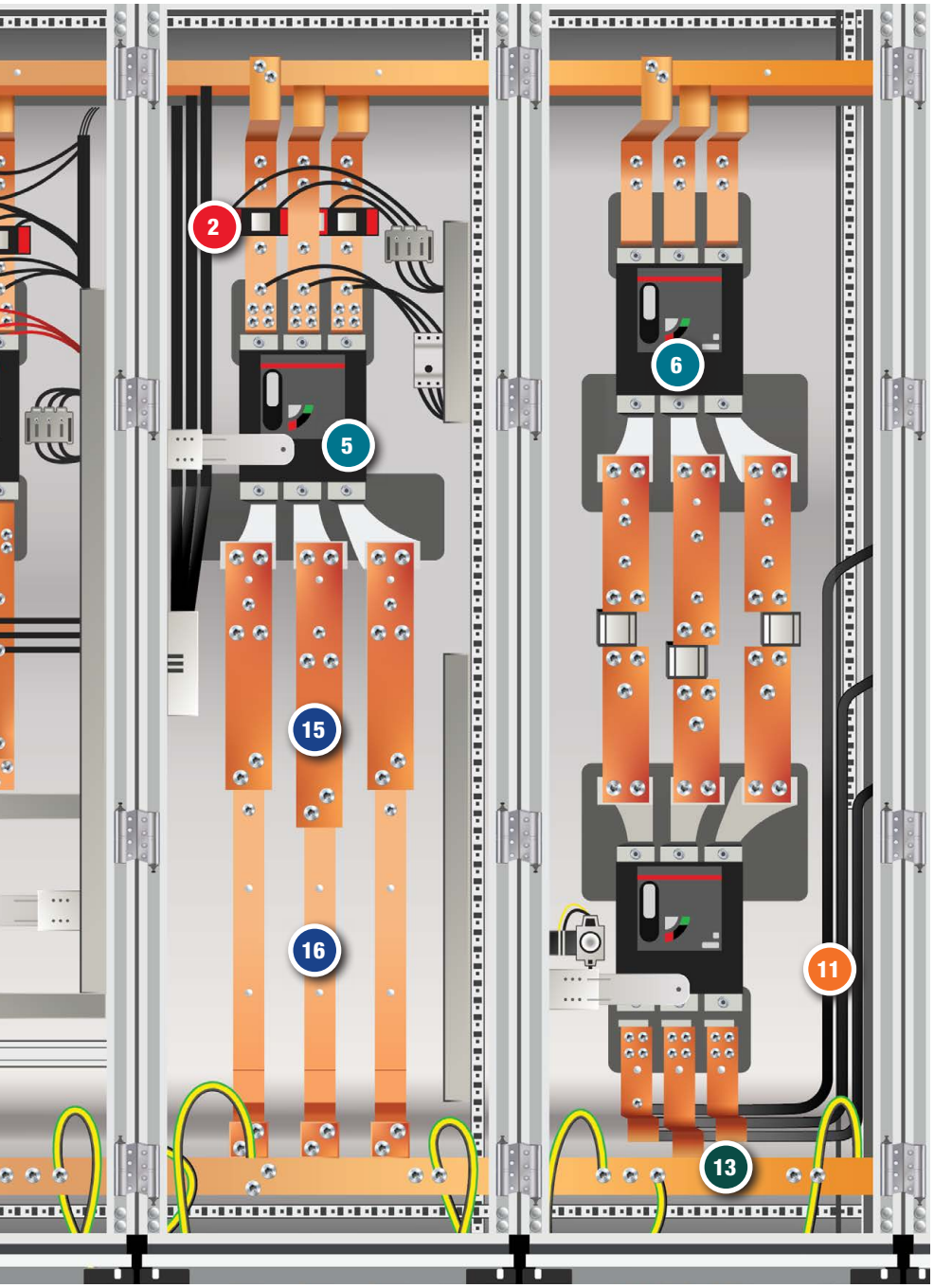
AEMC® INSTRUMENTS



FEEDER CONDUCTORS



9 Load study analysis

POWER & ENERGY LOGGER MODELS PEL 112 & 113



10 Power quality analysis

POWERPAD® SERIES



11 1 kV insulation resistance testing

MEGOHMMETER MODELS 1060 & 6526



12 Record feeder voltage and detect power quality events across switchgear buses to support long-term reliability analysis

DATA LOGGER MODEL L461



13 Log phase currents on breaker outputs or feeder conductors across two channels and detect imbalances

DATA LOGGER MODEL L412 W/ MN93-BK

GROUND BUSBARS



12 Absence of voltage

VOLTAGE ABSENCE TESTER MODEL CA 773



13 Test bond resistance on equipment ground conductors

MICRO-OHMMETER MODEL 6255

PHASE BUSBARS



14 Presence of voltage

NON-CONTACT HIGH VOLTAGE DETECTOR MODEL 275HVD



15 Measure contact resistances of bolted connections

MICRO-OHMMETER MODEL 6292



16 Measure voltage, current, power, and harmonic content

CLAMP-ON METER MODEL 607

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APPLICATIONS: POWER DISTRIBUTION (MOTOR)

POWER LOGGING AND MONITORING



1 Perform load profiling and ensure harmonic compliance

POWER & ENERGY LOGGER MODEL PEL 113



2 Record voltage quality and detect sags and swells

DATA LOGGER MODEL L461



3 Log motor feeder currents across two channels to trend load profiles and verify balanced phase currents

DATA LOGGER MODEL L412 W/ MINIFLEX® MA 193-24-BK

DRIVE INPUT



4 Verify balanced power, harmonic content, and voltage quality

POWERPAD® IV, CLASS A, MODEL 8345



5 Capture inrush currents and log amperage

CLAMP-ON METER MODEL 607

FEEDER CONDUCTORS



6 Measure currents in hard-to-reach places

DIGITAL FLEXPROBE® MINIFLEX® MODEL 4000D

MOLDED CASE CIRCUIT BREAKER



7 Measure insulation resistance to qualify performance during overvoltage

MEGOHMMETER MODEL 5050



8 Perform millivolt drop measurements across the line-to-load terminals to determine contact quality

HARMONIC ANALYZER MODEL OX 5042B

CONTACTOR



9 Test coil resistances and measure voltages

DIGITAL MULTIMETER MODEL 5217

GROUND ROD



10 Measure grounding electrode conductor continuity and electrode resistance-to-ground with Fall-of-Potential

GROUND RESISTANCE TESTER MODEL 6424

CONTROL WIRING



11 Test insulation resistance and verify continuity

MEGOHMMETER MODEL 6529

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AEMC® INSTRUMENTS

DRIVE OUTPUT



12 Visualize PWM waveform and measure pulse frequency, intensity, harmonics, and duty cycle for detecting distortion or irregularities

OSCILLOSCOPE MODEL OX 9304 IV

MOTOR CABLE



13 Identify cables breaks and individual conductors

CABLE VERIFICATION & TRACING ANALYZER MODEL 6683

ELECTRIC MOTOR



14 Measure coil insulation resistance quality and detect contamination or failures

MEGOHMMETER MODEL 6526



Measure motor coil resistances

MICRO-OHMMETER MODEL 6240



15 Non-contact measurement of shaft rotation speed

TACHOMETER MODEL C.A 1727



16 Measure drive pulse width and duty cycle

DIGITAL MULTIMETER MODEL MTX 3291



17 Non-contact diagnostics of bearing and winding conditions, cooling system performance and detecting splice issues

THERMAL IMAGING IR CAMERA MODEL 1954

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APPLICATIONS: TRANSFORMER ACCEPTANCE & MAINTENANCE TESTING

NAMEPLATE VERIFICATION



Verify transformer turns ratio, nameplate deviation, and winding continuity

DTR® MODEL 8511

WINDING BALANCE



Measure winding and bolted connection resistance

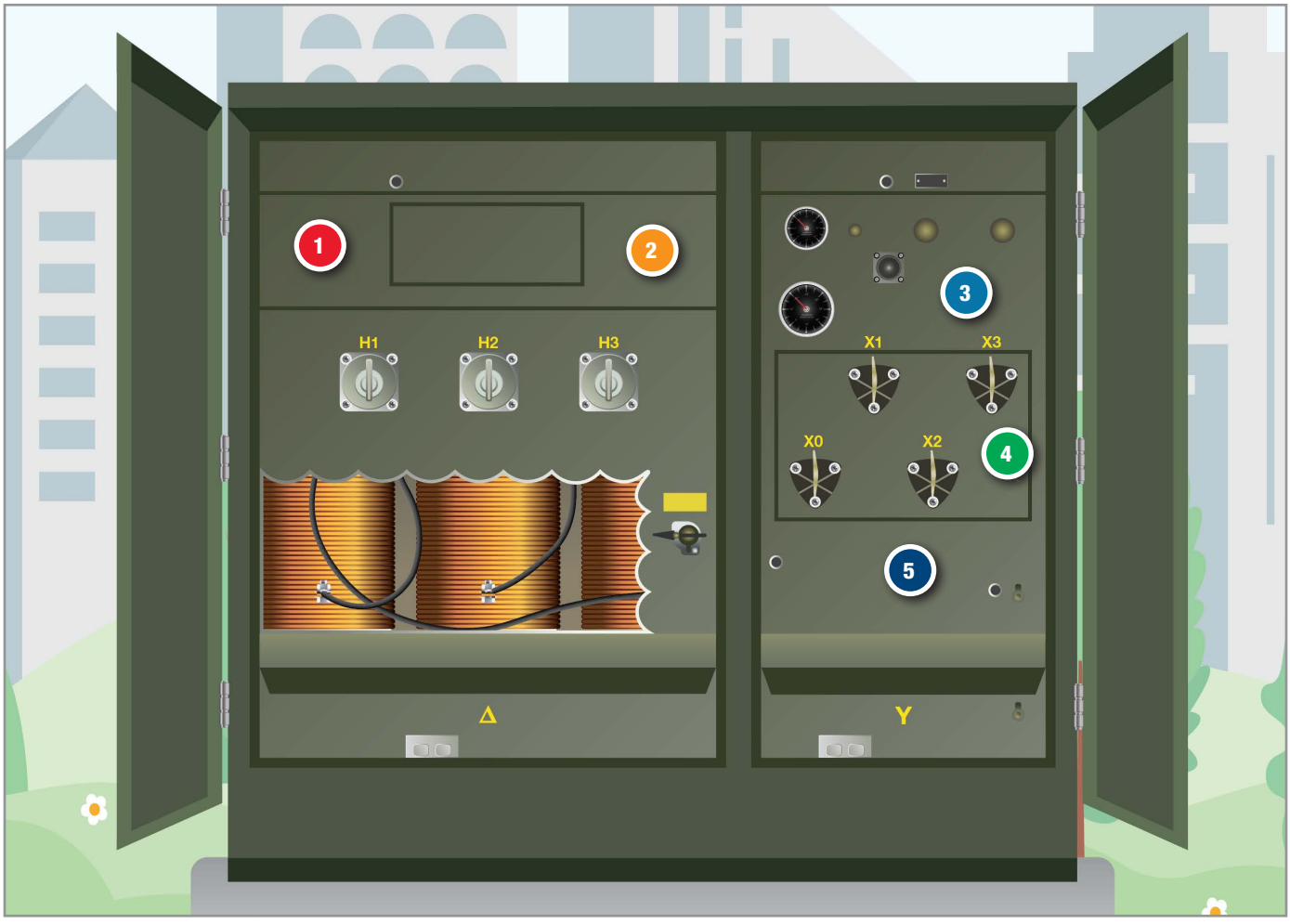
MICRO-OHMMETER MODEL 6240

INSULATION SYSTEM



Test transformer insulation resistance

MEGOHMMETER MODEL 6550



OPERATION SAFETY



Verify absence of voltage to ensure safety

VOLTAGE ABSENCE TESTER MODEL CA 773

ENERGY EFFICIENCY



Measure and record harmonics and unbalance at the Point of Common Coupling (PCC)

POWERPAD® IV, CLASS A, MODEL 8345



Monitor and log facility power consumption, harmonics and unbalance

POWER & ENERGY LOGGER MODEL PEL 115

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AEMC® INSTRUMENTS

NAMEPLATE VERIFICATION



Verify transformer turns ratio, nameplate deviation, and winding continuity

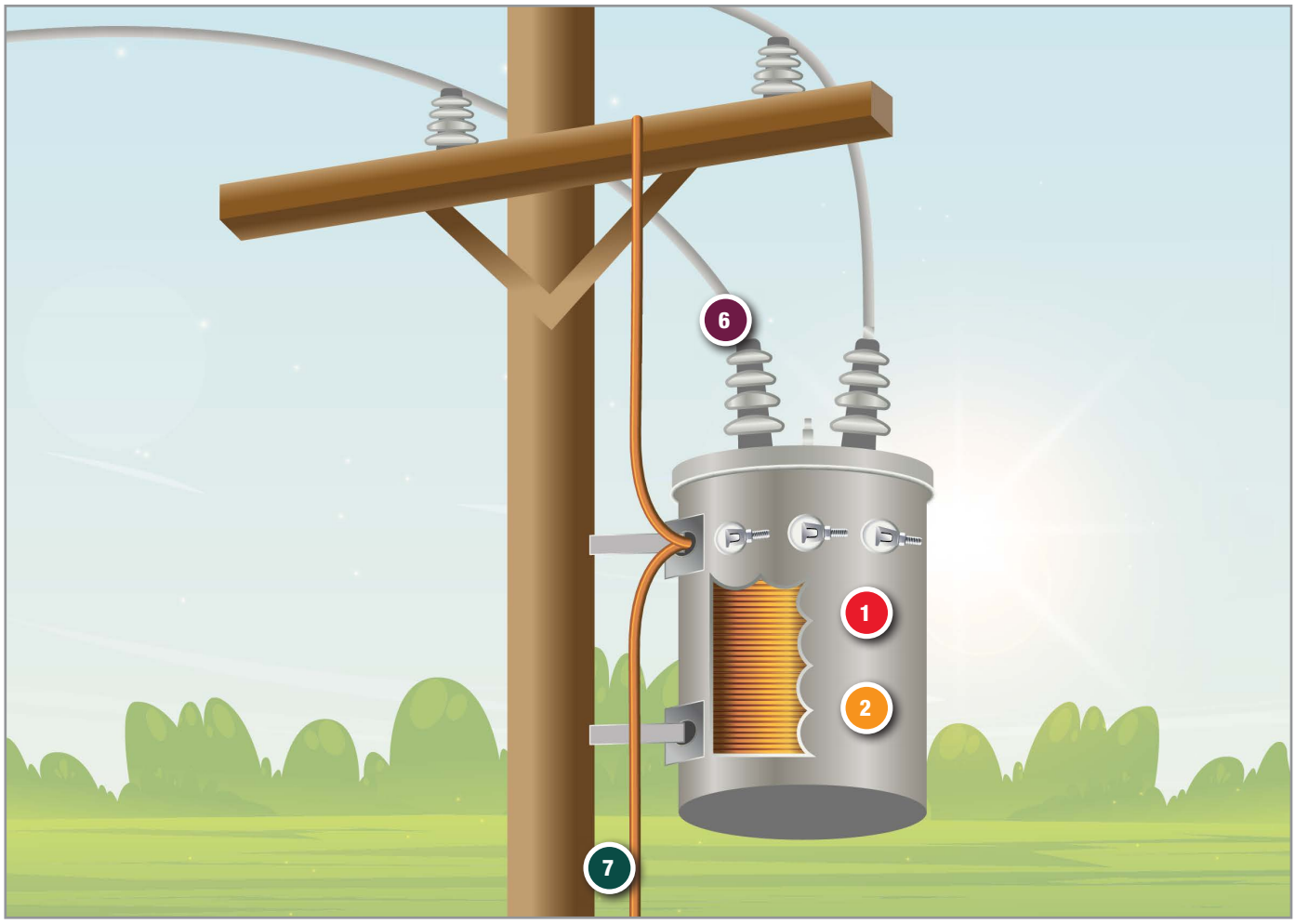
DTR® MODEL 8511

WINDING BALANCE



Measure winding and bolted connection resistance

MICRO-OHMMETER MODEL 6240



LOAD MONITORING



Measure and log current outdoors with watertight protection

DATA LOGGER MODEL DL913

GROUNDING SYSTEM



Measure individual ground resistance on a utility multi-point grounding system

GROUND RESISTANCE TESTER MODEL 6416

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POWER QUALITY AND ENERGY



1 Verify ATS operation and timing, and measure DC offset on inverters

POWERPAD® IV, CLASS A, MODEL 8345



2 Monitor VFDs for harmonic content

POWER & ENERGY LOGGER MODEL PEL 112



3 Verify load balance with current measurements

CLAMP-ON METER MODEL 606



4 Log unbalance, voltage sags, and swells

POWERPAD® III MODEL 8336



5 Monitor and record UPS output voltage and battery bus voltage to ensure power reliability and detect anomalies

DATA LOGGER MODEL L461



6 Log AC feeder and branch circuit currents across two channels identify capacity constraints

DATA LOGGER MODEL L412 W/ MN93-BK



GROUNDING AND BONDING



7 Test resistance-to-ground of ground electrodes

GROUND RESISTANCE TESTER MODEL 6472



9 Test grounding grid integrity

MICRO-OHMMETER MODEL 6292



8 Test continuity of grounding components

CONTINUITY TESTER MODEL CA 6011



10 Commission ESD Flooring with resistance measurements

MODEL 6536 ELECTROSTATIC DISCHARGE (ESD) FLOOR TEST KIT

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AEMC® INSTRUMENTS

POWER DISTRIBUTION AND SAFETY



11 Test battery intercell connections for low resistance

MICRO-OHMMETER MODEL 6255



12 Perform insulation resistance tests on LV breakers

MEGOHMMETER MODEL 5050



13 Perform infrared scans of electrical components

THERMAL IMAGING IR CAMERA MODEL 1954



14 Check phase rotation

PHASE ROTATION METER MODEL 6610



15 Verify bus plug contact resistance

MICRO-OHMMETER MODEL 6240



Trace data and power cables to find their source or locate breaks

CABLE VERIFICATION & TRACING ANALYZER MODEL 6683



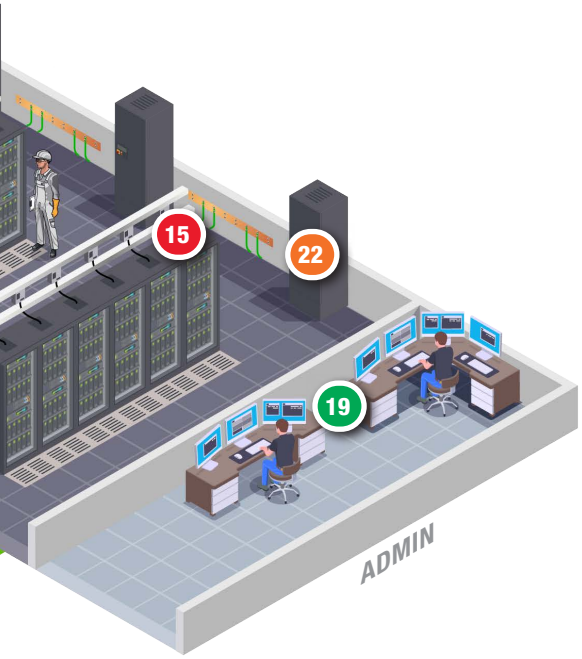
16 Check transformer turns

DTR® MODEL 8511



Check winding resistance

MICRO-OHMMETER MODEL 6240





ENVIRONMENTAL MONITORING AND LOGGING



17 Log temperature and humidity in remote locations

THERMO-HYGROMETER DATA LOGGER MODEL 1246



18 Verify proper HAC airflow

COMING SOON!

THERMO-ANEMOMETER DATA LOGGER MODEL 1228



19 Measure and log lighting intensity for compliance

LIGHTMETER DATA LOGGER MODEL 1110



20 Log thermocouple measurements

THERMOCOUPLE THERMOMETER DATA LOGGER MODEL 1822



Identify hot and cold airflow patterns

THERMAL IMAGING IR CAMERA MODEL 1954



21 Measure CO_2, temperature and humidity to verify air quality

AIR QUALITY LOGGER MODEL 1510

PERFORMANCE DC MEASUREMENTS



22 Clamp each 48 VDC feed at the fuse panel to verify per-position rack loading and balance A/B feeds where AC power monitoring can't see

MICROPROBE MODEL K100



23 Check battery-monitoring sense lines, UPS control and alarm loops for unexpected milliampere draw that points to a leakage path or wiring fault

MICROPROBE MODEL K110

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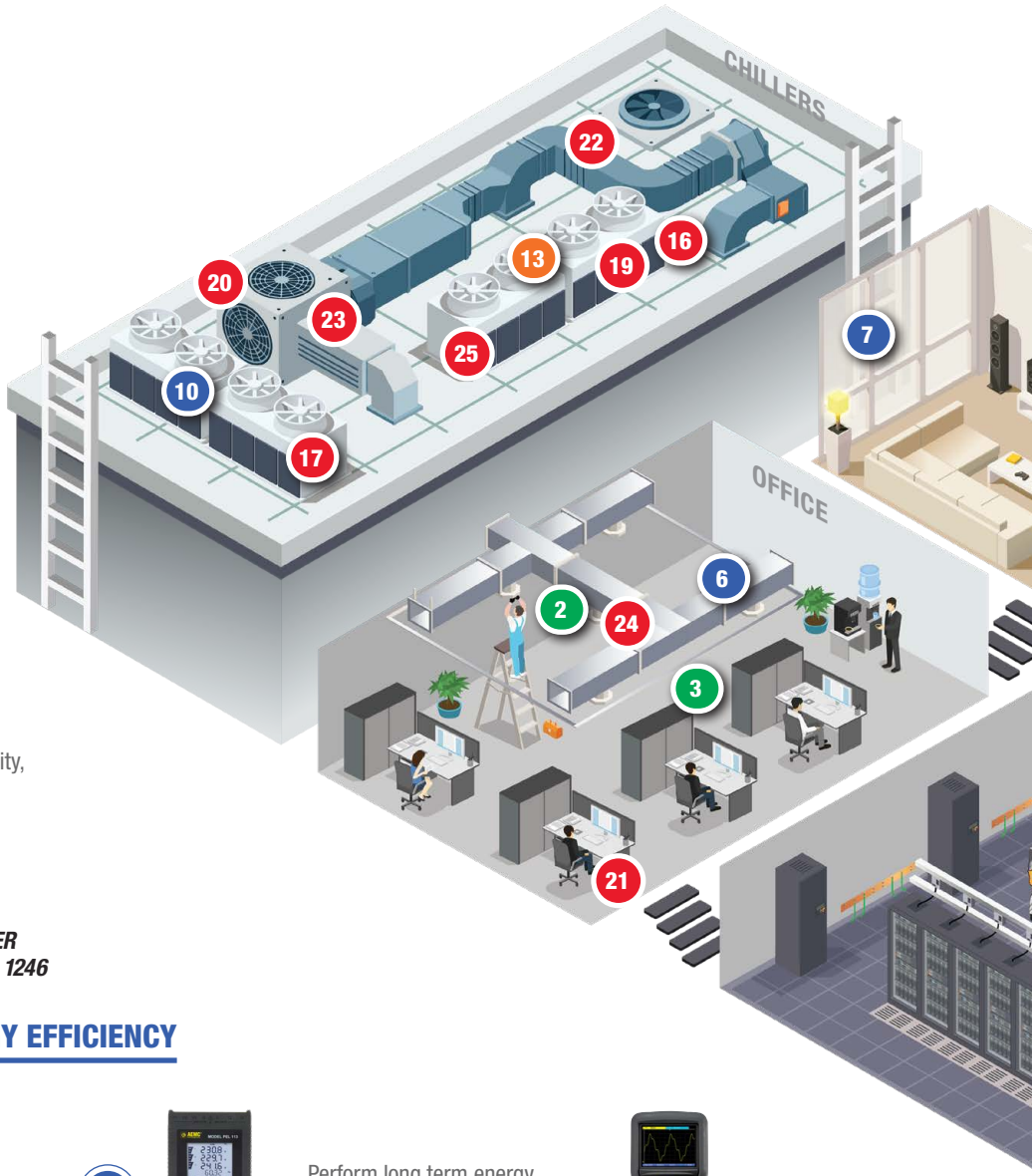
INDOOR ENVIRONMENTAL QUALITY





1 Measure and create lighting intensity maps for compliance studies
LIGHTMETER DATA LOGGER MODEL 1110



2 Log and map vent airflow for building commissioning
THERMO-ANEMOMETER DATA LOGGER MODEL 1228
COMING SOON!



3 Log CO_2 over a week to verify proper air exchange and ventilation performance
AIR QUALITY LOGGER MODEL 1510

4 Verify indoor air quality with temperature, humidity, and CO_2 reporting



5 Verify performance of temperature monitoring sensors
THERMO-HYGROMETER DATA LOGGER MODEL 1246

THERMAL PERFORMANCE AND ENERGY EFFICIENCY



6 Inspect thermal insulation performance on building envelope components
THERMAL IMAGING IR CAMERA MODEL 1954

7 Locate leaking air and thermal losses with infrared scans

8 Create visual images of plenum airflow and temperature on cooling systems



9 Perform long term energy audits after equipment upgrades
POWER & ENERGY LOGGER MODEL PEL 113



10 Correlate electrical loading and environmental performance for efficiency studies
POWER & ENERGY LOGGER MODEL PEL 115



11 Capture and report temperature and humidity in coolers
THERMO-HYGROMETER DATA LOGGER MODEL 1246



Diagnose harmonics in motor circuits
HARMONIC ANALYZER MODEL OX 5042B

25



Performs controlled voltage insulation testing and diagnostic measurements for troubleshooting control wiring
MEGOHMMETER MODEL 6529

24

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CONTROLS, SENSORS, AND SIGNAL VALIDATION

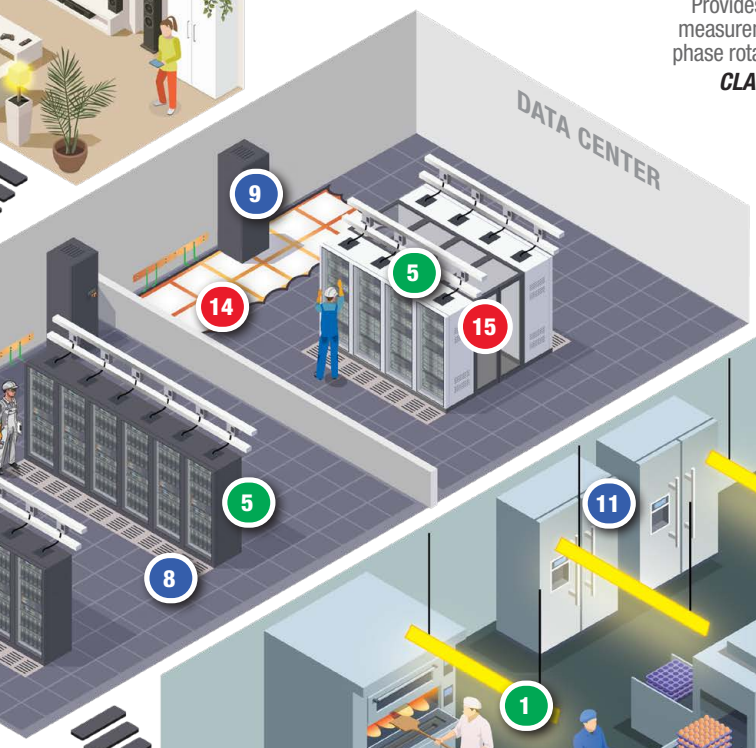


12 Display and capture thermocouple data from industrial processes
THERMOCOUPLE THERMOMETER DATA LOGGER MODEL 1822



13 Verify and document the rotating equipment is operating at the correct speed (RPM)
TACHOMETER MODEL CA1727







Tests insulation resistance to assess the condition and reliability of blower motors and wiring
MEGOHMMETER MODEL 6526

23



Monitors voltage stability in HVAC circuits and identifies supply issues
VOLTAGE DATA LOGGER MODEL L461

22

ELECTRICAL PERFORMANCE FOR ENVIRONMENTAL SYSTEMS



14 Verify low resistance continuity on static control systems in sensitive environments
CONTINUITY TESTER MODEL CA6011



15 Measures AC current, voltage, and basic electrical parameters
CLAMP-ON METER MODEL 505



Provides AC/DC current measurement along with phase rotation and power
CLAMP-ON METER MODEL 205

16



17 Measure three-phase current balance on chillers, fans, and other HVAC equipment
DATA LOGGER MODEL DL913



18 Log current harmonic on the line side of drives
POWERPAD® IV, CLASS A, MODEL 8345



19 Delivers precise measurement of voltage, current, and resistance for motors and control wiring
DIGITAL MULTIMETER MODEL 5217

20 Identifies phase rotation and motor direction without direct contact to live conductors
PHASE ROTATION METER MODELS 6610 / 6612



21 Locates and traces energized or de-energized cables to simplify circuit identification and troubleshooting
CABLE TRACER MODEL 6683

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GROUND RESISTANCE AND INSTALLATION TESTING



Ground resistance testing

GROUND RESISTANCE TESTER MODEL 6424



Comprehensive electrical safety testing on installations

MULTI-FUNCTION INSTALLATION TESTER MODEL CA 6116N

ENERGY EFFICIENCY



Measurement of insulation, leakproofing and thermal bridges

THERMAL IMAGING IR CAMERA MODEL 1954



CO_2 temperature and humidity testing

AIR QUALITY LOGGER MODEL 1510



Recording and analysis of electrical consumption

POWER & ENERGY LOGGER MODEL PEL 113



POWER & ENERGY LOGGER MODEL PEL 52



Record and analyze residential service voltage and solar PV output to verify power quality and system performance

DATA LOGGER MODEL L461



Log AC current at the service entrance or distribution panel to monitor load demand and identify imbalances

DATA LOGGER MODEL L411

Technical Assistance (800) 343-1391

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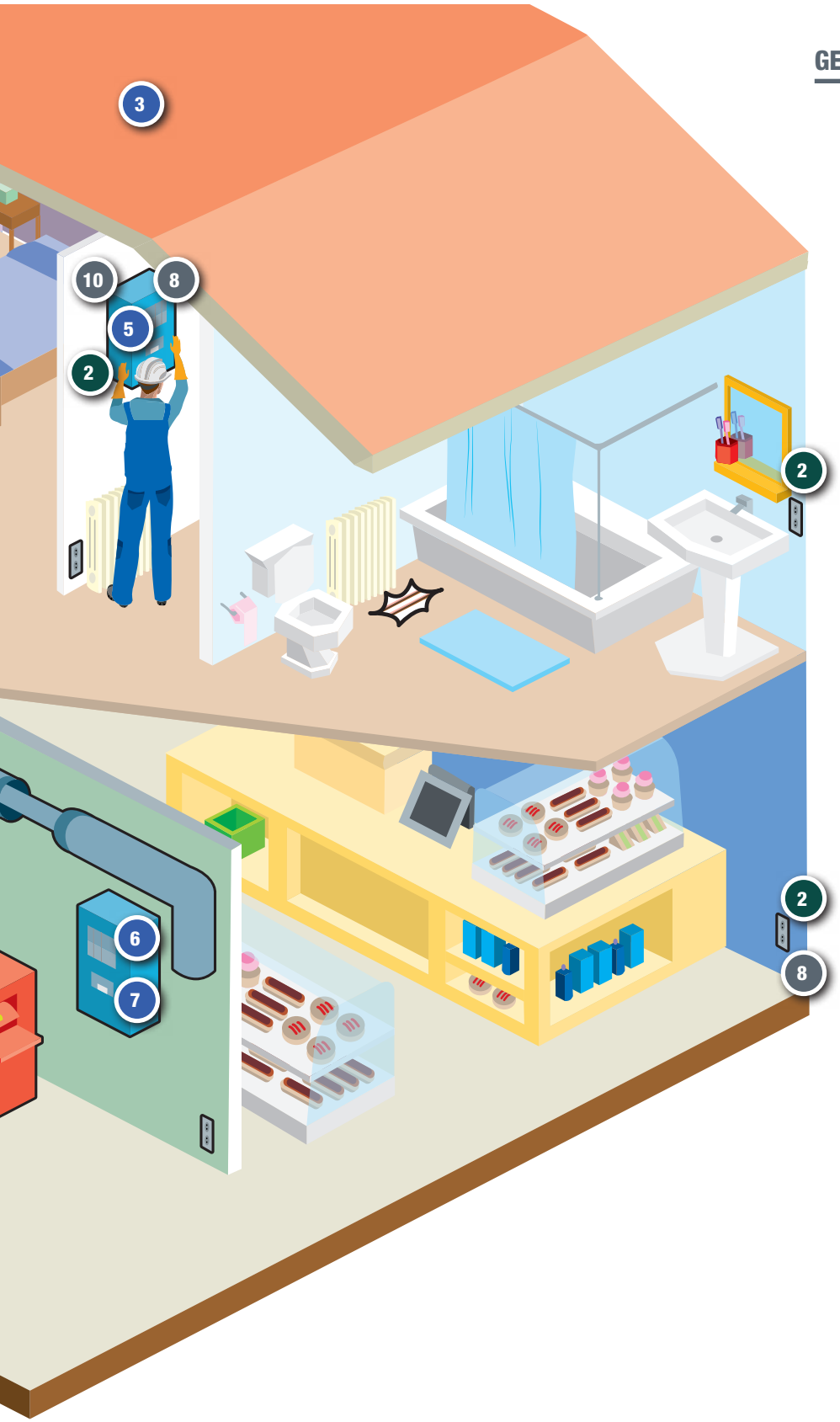
AEMC® INSTRUMENTS



GENERAL ELECTRICAL RENOVATION WORK



8 Measure voltages and verify function of GFCI's

VOLTAGE ABSENCE TESTER MODEL CA 773



9 Identify cables and locate open circuits or faults

CABLE VERIFICATION & TRACING ANALYZER MODEL 6683



10 Verification of voltages, currents and electrical continuity

CLAMP-ON METER MODEL 205



11 General measurements of voltage, current and resistance

DIGITAL MULTIMETER MODEL 5217

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FROM SUBSTATION TO STATION: AEMC® INSTRUMENTS FOR RAIL

PORTABLE MEASURING INSTRUMENTS



1

GROUND RESISTIVITY MEASUREMENTS

- **Programmable ground clamp:** ground loop testing and leakage current measurement.
  MODEL 6416



2

- **Earth and resistivity tester:** comprehensive grounding surveys.
  MODEL 6471



3

INSULATION MEASUREMENTS

- **Digital megohmmeters:** insulation testing on electrical installations and equipment.
  MEGOHMMETER
  MODEL 5070



4

- Expert insulation tester up to 15 kV.
  MEGOHMMETER
  MODEL 6555



5

CURRENT MEASUREMENT

- Digital TRMS ammeter with flexible sensor.
  DIGITAL FLEXPROBE® MINIFLEX®
  MODEL 4000D



6

POWER & ENERGY QUALITY

- **Industrial electrical network analyzer:** For electrical maintenance of power supply installations and buildings.
  POWERPAD® IV - CLASS A
  MODEL 8435



7

CONTINUITY

- **10 A micro-ohmmeter:** detection of deterioration between 2 contacts.
  MICRO-OHMMETER
  MODEL 6255



8

ELECTRICAL MEASUREMENTS

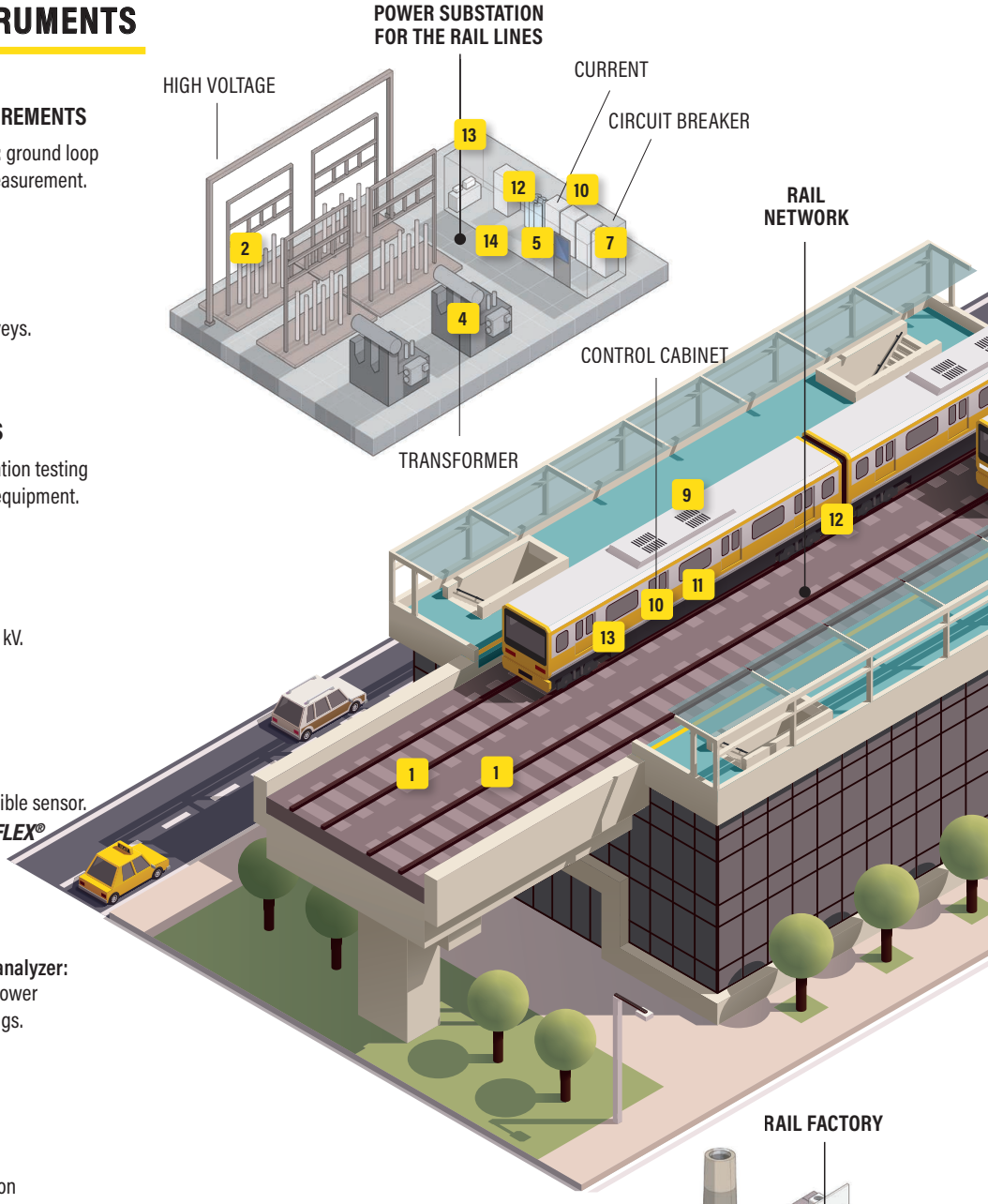
- **TRMS digital multimeter:** portable instrument for maintenance applications.
  DIGITAL MULTIMETER
  MODEL MTX 3292B

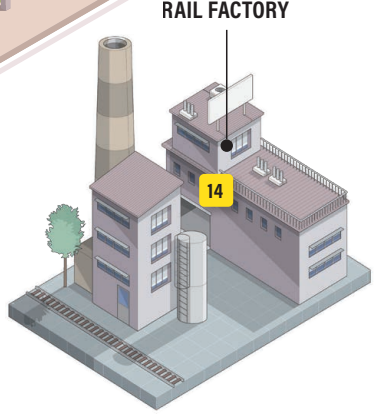


9

ENVIRONMENTAL MEASUREMENTS

- Air quality measurement in a confined environment (CO2, humidity, temperature) with parameterized compliance thresholds
  LIGHTMETER DATA LOGGER
  MODEL 1110





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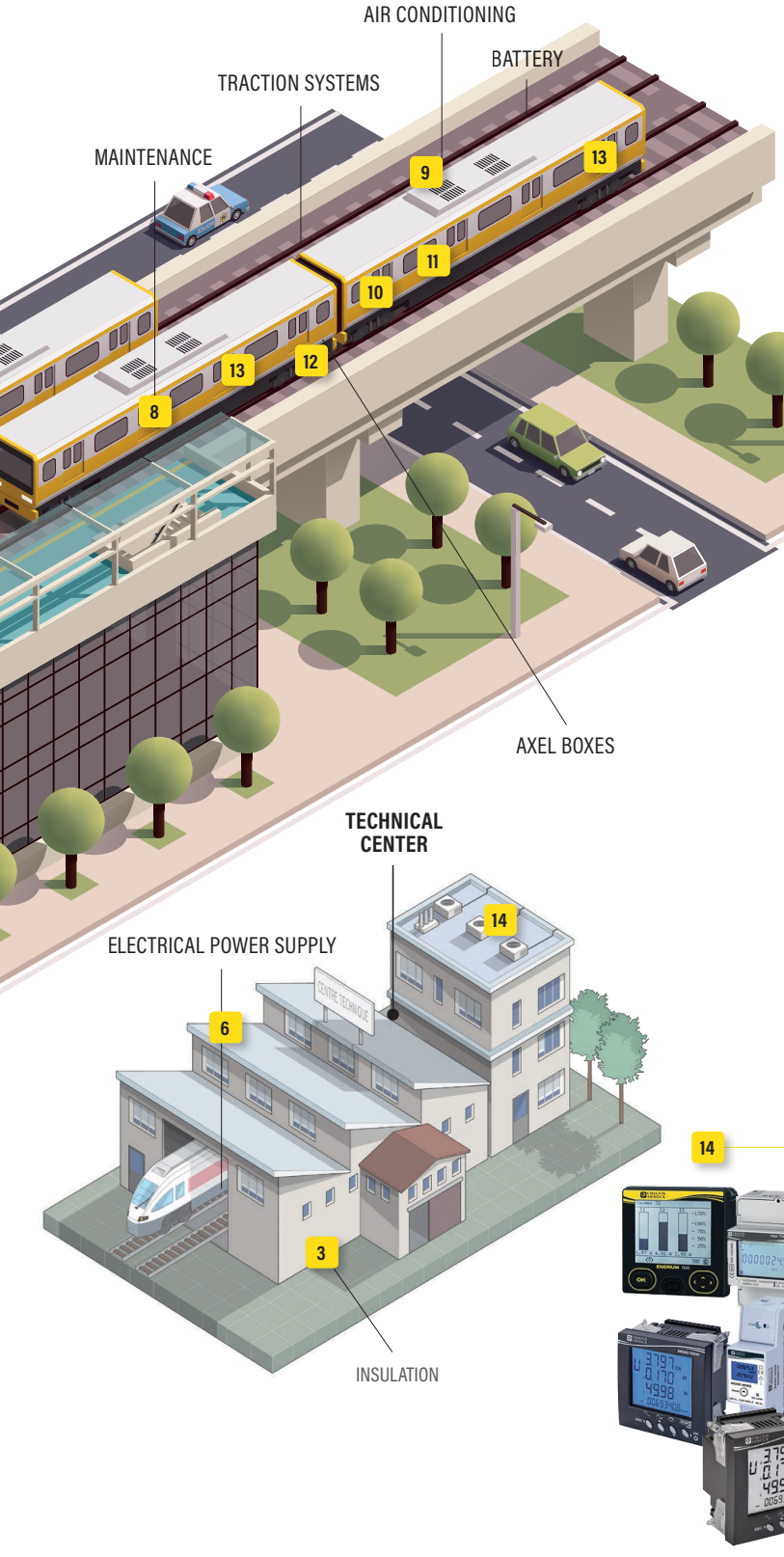
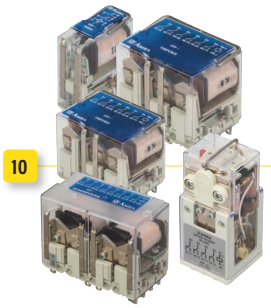
AEMC® INSTRUMENTS

Rail has been part of the Chauvin Arnoux Group's DNA from the beginning — and AEMC Instruments brings that expertise directly to North American rail operators, engineers, and specifiers. Our portfolio spans rolling stock, infrastructure, substations, and power supply installations, with solutions engineered to meet the evolving demands of modern rail networks and the international standards they operate under.













FIXED MEASUREMENT EQUIPMENT

AUTOMATION RELAYS

- **Monostable safety relays and timers:** control of the electrical command systems on board railway rolling stock.
  COMPACT PLUG-IN MODELS: POK, BIPOK, TRIPOK, QUADRIPOK & ESAPOK
  (2-4-6-8 and 12 CHANGE OVER CONTACTS)
  PLUG-IN MODELS: OK, OKS, OKFC, OKSFC, OKSCd, OKSGcCd, OKUIC, OKB184
  (4, 8 and 12 change over contacts)
- **Double-break monostable relay:** command-control of electrical systems.
  MODELS: F-OK B
  (4 double-break changeover contacts)
- **Monostable relays with forcibly guided contacts** *(Mechanically linked)***:** control safety circuits where mechanically guaranteed contact states ensure fail-safe operation.
  MODELS: RCG, RDG *(2-4 forcibly guided contacts);* ***RGG*** *(4 forcibly guided contacts),* ***RMGX*** *(6 CO + 2 NO forcibly guided contacts)*

TIME DELAY RELAYS

- **Multifunction multiscale timer delay relays:** delay or sequence the switching of electrical circuits by a preset time interval
  MODELS: TMM *(multifunction, 10 programmable delay functions, 4 contacts)*
  TM *(Time delay on pick-up or drop-out, 4 contacts),* ***TOK*** *(Time delay on pick-up or drop-out, high breaking capacity, 4 contacts)*

ENERGY MANAGEMENT

- **Meter and power monitor:** monitoring and remote retrieval of electrical energy consumption data.
  MODELS: ENERIUM SERIES *(power monitors),* ***MEMO P200*** *(simpler power monitor),* ***ULYS SERIES*** *(advanced lv energy meters),* ***ULYS MCM MULTI-CHANNEL METER*** *(MCM9, MCM18 centralizes measurement up to 18 feeders),* ***GRIDWATCH*** *(c50 and c200 – remote monitoring for multi-site data retrieval)*

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AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

As a global frontrunner, we specialize in Power Quality and Energy Analyzers Meters & Loggers, Ground Resistance Testers, and Insulation Testers, ensuring superior performance and reliability in every product.

Engineered for Excellence
RELIABILITY WHEN IT MATTERS™

CABLE VERIFICATION & TRACING ANALYZERS



Why choose AEMC® Instruments Cable Verification & Tracing Analyzer?

Our innovative hand-held Cable Verification & Tracing Analyzers offer the very best quality and are simple-to-use. All models feature push-button operation and easy-to-read data display. Our Cable Verification & Tracing Analyzers reliably identify faults, locate metal conductors, troubleshoot problems, measure cable length, and more on telecommunications, electric, power and other cables — eliminating the need for multiple instruments to get the job done.

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

CABLE VERIFICATION & TRACING ANALYZERS

300 V CAT III

MODEL 6683

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



TRANSMITTER RECEIVER

MODEL	6683E *(TRANSMITTER)*
Display	Backlit LCD display
Information Display	Measured voltage level, type *(AC or DC)*, transmitted signal power, battery status, identification code, voltage presence
Output Signal Frequency	125 kHz
External Voltage Identification Range	(12 to 400) V (50/60) Hz or DC ± 2.5 %
Signal Power	Adjustable *(3 levels)*
Transmitter Identification	Digital signal coding allowing the use of 7 transmitters simultaneously
Power Supply	(6) AAA batteries
Safety	IEC/EN 61010-2-030 300 V CAT III
Operating / Storage Temperature	Operating Temperature: (32 to 104) °F (0 to 40) °C Storage Temperature: (-4 to 140) °F (-20 to 60) °C
Dimensions / Weight	Dimensions: (6.3 × 3.30 × 1.57) in (160 × 84 × 40) mm Weight: 12.34 oz (350 g)

MODEL	6683R *(RECEIVER)*
Display	Backlit LCD display
Information Displayed	Signal amplitude, detection sensitivity, transmitter identification code and transmitted signal strength, battery status, voltage presence
Detection Depth With Transmitter	Unipolar application: (0 to 6) ft (0 to 2) m Bipolar application: (0 to 1.6) ft (0 to 0.5) m Single loopback line: Up to 8.2 ft (2.5 m)
Detection Sensitivity	Automatic or manual adjustment *(7 levels)*
Non-Contact Voltage (NCV) Function	(12 to 1000) VAC (50/60) Hz
Other Functions	Flashlight; audible signal deactivation
Power Supply	(6) AAA batteries
Safety	Type F sensor compliant with IEC/EN 61010-031 300 V CAT III
Operating / Storage Temperature	Operating Temperature: (32 to 104) °F (0 to 40) °C Storage Temperature: (-4 to 140) °F (-20 to 60) °C
Dimensions / Weight	Dimensions: (7.8 × 2.63 × 1.42) in (198 × 67 × 36) mm / Weight: 10.93 oz (310 g)

Consult factory for NIST Calibration prices.

FEATURES

- Quickly locates and traces electrical or metallic conductors, and identifies cable fault locations such as shorts and open circuits
- **Non-contact voltage detection** (NCV) up to 1000 VAC
- Dual operation modes: **Unipolar** *(de-energized)* and **Bipolar** *(live or de-energized)*
- **Adjustable sensitivity** — automatic for quick scans or manual for fine detection
- **Clear digital, visual, and audible indicators** with adjustable pitch or optional mute for precise tracing
- **Multiple transmitter ID codes** *(up to 7)* for identifying several lines simultaneously
- Digital filtering technology ensures **reliable detection and strong immunity to interference**
- **Large backlit LCDs** on both transmitter and receiver show transmission power, digital ID, voltage presence indicator, and battery status
- **Built-in LED flashlight** for low-light spaces
- **Auto power-off** on receiver to extend battery life

PRODUCT INCLUDES

Soft carrying case, set of (2) 5 ft silicone color-coded *(red/black)* safety leads with 4 mm straight/right angle banana plugs, (2) alligator clips *(red/black)*, outlet adapter with banana plugs, mini ground rod, E14 bulb adapter, (6) AAA batteries and multilingual user manual.



CAT. #	DESCRIPTION
2127.89	Cable Verification & Tracing Analyzer Model 6683

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6683
	2118.49	Adapter – 110 V Outlet Adapter w/ 4 mm Banana Plugs	•
	5000.94	Lead – set of (2), 5 ft Silicone color-coded (red/black) with 4 mm straight/right Banana Plugs (Rated 1000V, CAT IV, UL)	•
	5000.97	Probe – Black Test Probe (Rated 1000 V CAT IV, 15 A, UL V2)	•
	5000.98	Probe – Red Test Probe (Rated 1000 V CAT IV, 15 A, UL V2)	•
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15A, UL V2)	•
	5100.22	Mini Ground Rod	•
	5100.23	Adapter – Replacement E14 Bulb Adapter	•
	5100.24	Case – Replacement Soft Carrying Case	•



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AEMC®
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CHAUVIN ARNOUX GROUP

Rest assured; we've got you covered. Our products meet the highest international standards for quality and safety, and our warranties offer the best protection for your equipment.

We are the brand you can trust!

Engineered for Excellence
RELIABILITY WHEN IT MATTERS™

CLAMP-ON METERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Clamp-On Meters?

Our rugged, dependable and safe Clamp-On Meters employ the latest technology, offer the very best quality and are simple-to-use. We offer a range of Clamp-On Meters to meet your need with economical and competitive pricing. Users can be sure of working in total safety with 1000 V CAT IV / 1500 V CAT III ratings *(model dependent).*

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

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

IP 54 | 1000 V CAT IV

POWER CLAMP-ON MODELS 407 & 607

Advanced power, energy, and harmonic measurements for single- and three-phase systems.



407 607

DataView®

True InRush®

MODELS	407	607
JAW		
Jaw Size	1.89 in (48 mm)	2.36 in (60 mm)
ELECTRICAL		
AC Voltage Range	1000 V	
DC Voltage Range	1000 V	
AC Current Peak	1000 A	2000 A
DC Current Max	1500 A	3000 A
Frequency Measurement	I: 5 Hz to 2 kHz V: 5 Hz to 20 kHz	I: 5 Hz to 1 kHz V: 5 Hz to 20 kHz
Resistance Measurement Range	0.1 Ω to 99.99 kΩ	
Resolution *(Count)*	10,000	
POWER		
Power Measurement	Yes	
Energy Measurement	Yes	
Harmonics[1]	Yes	
Recording	Yes	
Communication and Reporting	Yes	
Power Source	(4) AA batteries	
Safety Rating	1000 V CAT IV	

Consult factory for NIST Calibration prices.

[1] To the 25th order

FEATURES

- True RMS AC, DC, and AC+DC current measurement for accurate readings on circuits with both sinusoidal and distorted waveforms
- Measures voltage, current, power, energy, frequency, and harmonics in single- and three-phase systems
- True InRush® function captures motor starting and transient currents with high-speed sampling
- Harmonic analysis and Total Harmonic Distortion (THD) measurements support power quality assessments
- Integrated data recording with onboard memory for trending and load studies
- Bluetooth® communication for wireless data transfer to DataView® software
- Large backlit display with MIN/MAX, HOLD, and PEAK functions for clear visibility in industrial environments
- CAT IV safety ratings for use in demanding electrical installations

PRODUCT INCLUDES

CAT. #2139.51 POWER CLAMP-ON METER MODEL 407
CAT. #2139.61 POWER CLAMP-ON METER MODEL 607

Hard carrying case, set of (2) color-coded silicone test leads, test probes and alligator clips, Bluetooth® USB adapter, (4) AA batteries, safety information sheet, and USB drive supplied with DataView® software and user manual.



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

See page 53 for Accessories/Replacements

CAT. #	DESCRIPTION
2139.51	Power Clamp-On Meter Model 407 (TRMS, 1000 VAC/DC, 1000 AAC/1500 ADC, Ohms, Continuity, Energy, Harmonics, Power, THD, Recording)
2139.61	Power Clamp-On Meter Model 607 (TRMS, 1000 VAC/DC, 2000 AAC/3000 ADC, Ohms, Continuity, Energy, Harmonics, Power, THD, Recording)

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IP 40 | 600 V CAT IV | 1000 V CAT III | TRMS | CE

POWER CLAMP-ON MODEL 205

Pocket sized power clamp-on meter with integrated phase rotation function.









MODEL	205
JAW	
Jaw Size	1.34 in (34 mm)
ELECTRICAL	
AC Voltage Range	1000 V
DC Voltage Range	1000 V
AC Current Peak	600 A
DC Current Max	900 A
Frequency Measurement	I: 5 Hz to 3 kHz V: 5 Hz to 20 kHz
Resistance Measurement Range	0.1 Ω to 59.99 kΩ
Resolution *(Count)*	6000
POWER	
Power Measurement	Yes
Energy Measurement	N/A
Harmonics	N/A
Recording	N/A
Communication and Reporting	N/A
Power Source	(1) 9 V battery
Safety Rating	600 V CAT IV

Consult factory for NIST Calibration prices.

FEATURES

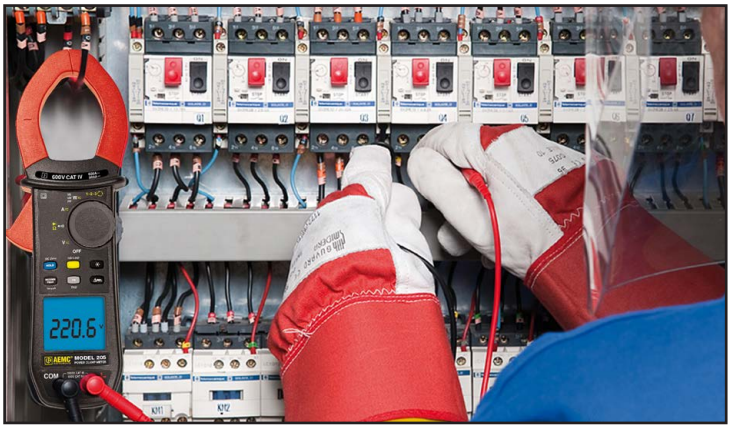
- Measures AC and DC current, voltage, resistance, continuity, frequency, and power for comprehensive electrical diagnostics
- Integrated phase rotation function simplifies verification of phase sequence on three-phase systems and rotating machinery
- True RMS measurement ensures accurate readings on non-linear and distorted waveforms
- Supports single- and balanced three-phase power measurements for commissioning and troubleshooting
- True InRush® function captures motor starting and transient currents
- MIN/MAX and HOLD functions assist with identifying intermittent or fluctuating conditions
- Designed for safe use in industrial and commercial electrical environments

PRODUCT INCLUDES

CAT. #2139.61 POWER CLAMP-ON METER MODEL 205

Includes set of (2) 5 ft (1.5 m) Needle Tip color-coded leads with 4 mm right angle plug, soft carrying case, (1) 9 V battery and user manual.





See page to 53 for Accessories/Replacements

CAT. #	DESCRIPTION
2139.40	Power Clamp-On Meter Model 205 (TRMS, 1000 VAC/DC, 600 AAC/900 ADC, Ohms, Continuity, Phase Rotation, Power, THD)

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CLAMP-ON METERS

400 & 600 SERIES GENERAL PURPOSE METERS

IP 54 | 1000 V CAT IV | 1500 V CAT III | CE | ⧈

MODELS 404 & 606

AC and DC power measurements for solar, storage, and renewable energy systems.



True *InRush*®

404 606

MODELS	404	606
JAW		
Jaw Size	1.89 in (48 mm)	2.36 in (60 mm)
ELECTRICAL		
AC Voltage Range	1200 V	
DC Voltage Range	1700 V	
AC Current Peak	1000 A	2000 A
DC Current Max	1500 A	3000 A
Frequency Measurement	I: 5 Hz to 1 kHz V: 5 Hz to 20 kHz	I: 5 Hz to 1 kHz V: 5 Hz to 20 kHz
Resistance Measurement Range	0.1 Ω to 99.99 kΩ	
Resolution *(Count)*	10,000	
POWER		
Power Measurement	N/A	Yes
Energy Measurement	N/A	
Harmonics	N/A	THDf / THDr
Recording	N/A	
Communication and Reporting	N/A	
Power Source	(4) AA batteries	
Safety Rating	1000 V CAT IV	

Consult factory for NIST Calibration prices.

FEATURES

- Measures AC, DC, and AC+DC current and voltage for modern electrical systems that include rectifiers, drives, and DC loads
- Extended DC current and voltage measurement ranges support troubleshooting of battery systems, power electronics, and DC distribution
- True RMS sensing provides accurate readings on mixed and distorted waveforms
- Measures power, frequency, resistance, continuity, and diode functions for versatile field diagnostics *(model dependent)*
- True InRush® function captures starting and inrush currents in motors and power supplies
- Backlit display with MIN/MAX, PEAK, and HOLD functions improves visibility and data capture in the field
- Designed for use in industrial, commercial, and maintenance applications

See page 53 for Accessories/Replacements

PRODUCT INCLUDES

CAT. #2139.22 CLAMP-ON METER MODEL 404

Includes set of (2) color-coded silicone insulated test leads, test probes and alligator clips, K-thermocouple with 4 mm integrated adapter, soft carrying case, (4) AA batteries, and user manual.

CAT #2139.62 CLAMP-ON METER MODEL 606

Includes set of (2) color-coded silicone insulated test leads, test probes and alligator clips, soft carrying case, (4) AA batteries, and user manual.



CAT. #	DESCRIPTION
2139.22	Clamp-On Meter Model 404 (TRMS, 1200 VAC/1700 VDC, 1000 AAC/1500 ADC, Ohms, Continuity, Temperature)
2139.62	Clamp-On Meter Model 606 (TRMS, 1200 VAC/1700 VDC, 2000 AAC/3000 ADC, Ohms, Continuity, Power, THD)

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CLAMP-ON METERS
500 SERIES
MODELS 505 & 514

600 V CAT III

Reliable TRMS clamp-on meters for routine electrical measurements.



505



514

MODELS	505	514
JAW		
Jaw Size	1.18 in (30 mm)	1.57 in (40 mm)
ELECTRICAL		
AC Voltage Range	600 V	750 V
DC Voltage Range	600 V	1000 V
AC Current Peak	400 A	1000 A
DC Current Max	400 A	1000 A
Frequency Measurement	(48 to 400) Hz	1 Hz to 10 kHz
Resistance Measurement Range	(0.2 to 600) Ω	0.1 Ω to 4 kΩ
Resolution *(Count)*	6000	4000
POWER		
Power Measurement	N/A	
Energy Measurement	N/A	
Harmonics	N/A	
Recording	N/A	
Communication and Reporting	N/A	
Power Source	(2) AAA batteries	(1) 9 V battery
Safety Rating	600 V CAT III	

Consult factory for NIST Calibration prices.

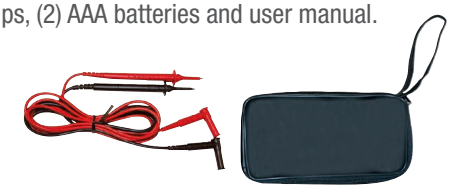
FEATURES

- True RMS current measurement ensures accurate readings on non-sinusoidal loads
- Measures AC/DC current, AC/DC voltage, resistance, continuity, and frequency
- Compact, lightweight design for everyday troubleshooting and maintenance tasks
- Data HOLD, MIN/MAX, and PEAK functions simplify capture of fluctuating signals
- Automatic power-off extends battery life during field use
- Designed for safe operation on industrial and commercial electrical systems

PRODUCT INCLUDES

CAT. #2139.82 CLAMP-ON METER MODEL 505
CAT. #2117.70 CLAMP-ON METER MODEL 514

Soft carrying case, set of (2) color-coded *(red/black)* test leads with probe tips, (2) AAA batteries and user manual.





See page 53 for Accessories/Replacements

CAT. #	DESCRIPTION
2139.82	Clamp-On Meter Model 505 (TRMS, AC/DC, 400 Aac/dc, 600 Vac/dc, Ohms, Continuity) RATED 600 V CAT III
2117.70	Clamp-on Meter Model 514 (AC/DC, TRMS, 1000 Aac/dc, 750 Vac/1000 Vdc, Hz, Ohms, Continuity)

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CLAMP-ON METERS
100 Aac/dc LOW CURRENT
MODEL CM605

600 V CAT II | 300 V CAT III | CE | ⧈

High-resolution clamp-on meter for low-level AC and DC currents.



MODEL	CM605
JAW	
Jaw Size	0.45 in (12 mm)
ELECTRICAL	
AC Voltage Range	600 V
DC Voltage Range	600 V
AC Current Peak	100 A
DC Current Max	100 A
Frequency Measurement	(50 to 500) Hz *(current & voltage)*
Resistance Measurement Range	1 Ω to 10 kΩ
Resolution *(Count)*	1 mA
POWER	
Power Measurement	N/A
Energy Measurement	N/A
Harmonics	N/A
Recording	N/A
Communication and Reporting	N/A
Power Source	(2) AAA batteries
Safety Rating	600 V CAT II / 300 V CAT III

Consult factory for NIST Calibration prices.

FEATURES

- Designed for high-resolution measurement of very low AC and DC currents, down to the milliamp range
- Suitable for low current applications, allowing non-intrusive verification of sensors, transmitters, and control signals without breaking the circuit
- Meter jacks export an analog voltage proportional to the measured AC/DC current for data logging and waveform analysis
- Slim jaw design provides access to tightly packed control wiring and conductors
- Ideal for instrumentation troubleshooting, control panels, automation systems, and industrial process environments

PRODUCT INCLUDES

CAT #2139.62 CLAMP-ON METER MODEL CM605

Soft carrying case, set of (2) color-coded *(red/black)*, test leads with probe tips, (2) AAA batteries and user manual.







See page 53 for Accessories/Replacements

CAT. #	DESCRIPTION
7000.02	Clamp-on Meter Model CM605 (100 Aac/dc, Low Current)

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

CLAMP-ON METERS
LEAKAGE CURRENT METER
MODEL 566

600 V CAT III

Dedicated leakage current clamp-on meter for safety and preventive maintenance.



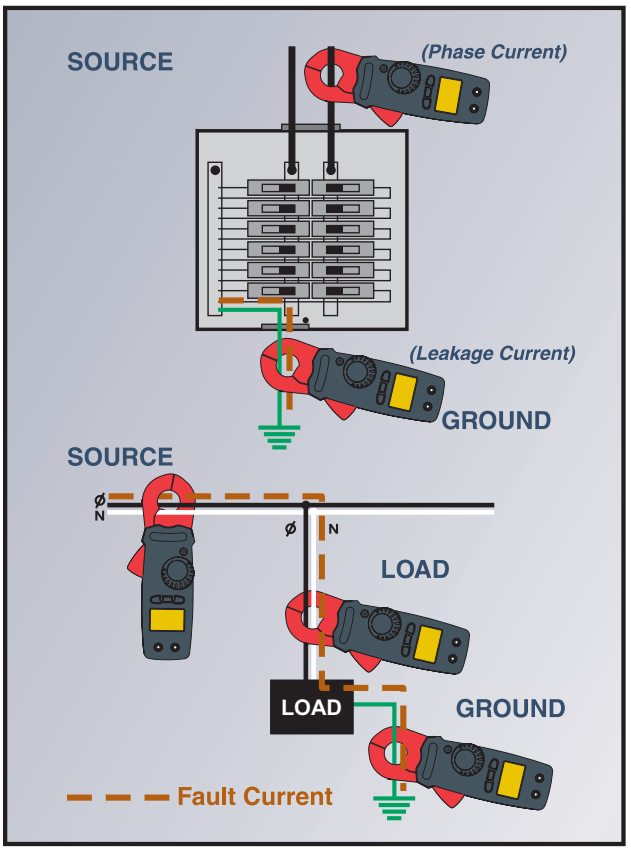


MODEL	566
JAW	
Jaw Size	0.91 in (23 mm)
ELECTRICAL	
AC Voltage Range	600 V
DC Voltage Range	600 V
AC Current Peak	60 A
DC Current Max	N/A
Frequency Measurement	N/A
Resistance Measurement Range	0.1 Ω to 600 kΩ
Resolution *(Count)*	.001 mA
POWER	
Power Measurement	N/A
Energy Measurement	N/A
Harmonics	N/A
Recording	N/A
Communication and Reporting	N/A
Power Source	(2) AAA batteries
Safety Rating	600 V CAT III

Consult factory for NIST Calibration prices.

FEATURES

- Specifically designed for leakage current measurement to identify insulation degradation and unintended current paths
- High sensitivity enables detection of small leakage currents without disconnecting conductors
- True RMS measurement ensures reliable readings on distorted waveforms and variable loads
- Low-pass filter function stabilizes readings in electrically noisy environments
- Zero *(relative)* function allows compensation for background or residual currents
- Ideal for preventive maintenance, safety inspections, and troubleshooting ground faults and insulation issues



PRODUCT INCLUDES

CAT #2139.62 LEAKAGE CURRENT METER MODEL 566

Soft carrying case, (2) color-coded *(red/black)* 5 ft test leads, (2) AAA batteries and user manual.



See page 53 for Accessories/Replacements

CAT. #	DESCRIPTION
2139.83	TRMS Clamp-on Leakage Current Meter Model 566 (6/60/600 mA, 6/60 A, 600 VAC/DC, Ohms, Continuity)

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CLAMP-ON METERS
DIGITAL FLEXPROBE®
MODELS 400D & 4000D

600 V CAT IV

Flexible clamp-on meters for measuring current on large or hard-to-reach conductors.



MINIFLEX®:
400D-10 (10 in probe)



MINIFLEX®:
4000D-14 (14 in probe)



MINIFLEX®:
400D-24 (24 in probe)
4000D-24 (24 in probe) *(shown)*

FEATURES

- Flexible current sensors with an integrated digital ammeter for measuring current on large or hard-to-reach conductors
- Non-rigid Rogowski-style sensor design allows installation around bus bars, cable bundles, and oversized conductors
- Measures AC current without breaking the circuit, improving safety and efficiency
- Lightweight, compact design simplifies use in crowded panels and industrial installations
- Large digital display with HOLD and MAX functions for easy reading and capture of measurements
- Ideal for applications where traditional rigid clamp-on meters cannot be used

PRODUCT INCLUDES

CAT. #2153.31 DIGITAL FLEXPROBE® MODEL 400D-10
CAT. #2153.36 DIGITAL FLEXPROBE® MODEL 400D-24
CAT. #2153.32 DIGITAL FLEXPROBE® MODEL 4000D-14
CAT. #2153.35 DIGITAL FLEXPROBE® MODEL 4000D-24
(2) AAA batteries and user manual.

MODELS	400D	4000D
JAW		
Jaw Size[1]	(2.75 to 8) in	(3.94 to 8) in
Sensor Length	400D-10: Ø 10 in (254 mm) 400D-24: Ø 24 in (610 mm)	4000D-14: Ø 14 in (355 mm) 4000D-24: Ø 24 in (610 mm)
ELECTRICAL		
AC Voltage Range	N/A	
DC Voltage Range	N/A	
AC Current Peak	400 A	4000 A
DC Current Max	N/A	
Frequency Measurement	N/A	
Resistance Measurement Range	N/A	
Resolution	4000	
POWER		
Power Measurement	N/A	
Energy Measurement	N/A	
Harmonics	N/A	
Recording	N/A	
Communication and Reporting	N/A	
Power Source	(2) AAA batteries	
Safety Rating	600 V CAT IV	

Consult factory for NIST Calibration prices.
[1] Model Dependent

CAT. #	DESCRIPTION
2153.31	Digital FlexProbe® Model 400D-10 with 6 ft Lead (TRMS, 4 Aac, 40 Aac, 400 Aac)
2153.36	Digital FlexProbe® Model 400D-24 with 6 ft Lead (TRMS, 4 Aac, 40 Aac, 400 Aac)
2153.32	Digital FlexProbe® Model 4000D-14 with 6 ft Lead (TRMS, 40 Aac, 400 Aac, 4000 Aac)
2153.35	Digital FlexProbe® Model 4000D-24 with 6 ft Lead (TRMS, 40 Aac, 400 Aac, 4000 Aac)

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CLAMP-ON METERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	407	607	205	404	606	505	514	CM605	566	400D	4000D
	2117.73	Pouch – Replacement Dimensions: (7 × 8.5 × 2) in						•			•		
	2118.09	Case – General Carrying Case Dimensions: (13 × 9.5 × 3) in	•	•	•	•	•	•	•	•			
	2118.65	Case – Soft Carrying Case for Clamp-On Meters and Multimeters Dimensions: (10.5 × 5 × 2) in	•	•	•	•	•	•	•	•	•	•	•
	2119.48	Multi-Purpose Canvas Pouch Dimensions: (11 × 5 × 2.25) in	•	•	•	•	•						
	2121.05	AC Line Splitter Model ALS-1	•	•	•	•	•		•	•	•		
	2139.71	Thermocouple - K-thermocouple w/ 4 mm Integrated Adapter				•							
	2139.72	Replacement Pouch for Clamp-On Meter; Dimensions: (13.54 × 4.75 × 2.75) in			•	•	•		•	•			
	2139.73	Replacement Case	•	•									
	2139.74	Lead – Set of (2), 6.5 ft color-coded (red/black) Fused Leads (.63 A) w/ 4 mm Plug	•	•	•	•	•	•	•	•			
	2152.15	Set of (2), 5 ft color-coded (red/black) Silicone Insulated Safety Leads (4 mm right-angle Banana Plug and 4 mm straight screw-on Banana Plug) rated 1000 V CAT IV				•	•						
	2152.28	Lead – Set of (2), 6.5 ft color-coded (red/black) Fused Leads (0.63 A); (2) screw-on Alligator Clips, (2) screw-on Test Probes, Set of (5), 0.63 A fuses (UL)	•	•	•	•	•	•	•	•			
	2154.74	Lead – Replacement Set of (2), Needle Tip color-coded (red/black) w/ 4 mm right-angle plug {600 V CAT IV w/ shield on Needle Tip, 1000 V CAT II w/o shield}	•	•	•	•	•	•	•	•	•		
	5000.44	MultiFix *(universal mounting system)*										•	•
	5000.94	Lead – Set of (2), 5 ft Silicone color-coded (red/black) with 4 mm straight/right Banana Plugs (Rated 1000 V, CAT IV, UL)	•	•	•	•	•						
	5000.97	Probe – Black Test Probe (Rated 1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•						
	5000.98	Probe – Red Test Probe (Rated 1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•						
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•						
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•						

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CLAMP-ON METERS

SELECTION CHART

Models	CAT. #	Type	AC Current	AC Voltage	DC Current	DC Voltage	Resistance (Ω)	Continuity	Frequency (Hz)		Jaw Size	Dimensions
									Current	Voltage		
205	2139.40	AC / DC TRMS	600 A	1000 V	900 A	1000 V	60 kΩ	< 40 Ω	3 kHz	20 kHz	1.34 in (34 mm)	(8.7 × 3.1 × 1.65) in
404	2139.22	AC / DC TRMS	1000 A	1200 V	1500 A	1700 V	100 kΩ	< 40 Ω	1 kHz	20 kHz	1.89 in (48 mm)	(10.7 × 3.6 × 1.6) in
407	2139.51	AC / DC TRMS	1000 A	1000 V	1500 A	1000 V	100 kΩ	< 40 Ω	2 kHz	20 kHz	1.89 in (48 mm)	(10.7 × 3.6 × 1.6) in
606	2139.62	AC / DC TRMS	2000 A	1200 V	3000 A	1700 V	100 kΩ	< 40 Ω	1 kHz	20 kHz	2.36 in (60 mm)	(11.65 × 4.37 × 1.61) in
607	2139.61	AC / DC TRMS	2000 A	1000 V	3000 A	1000 V	100 kΩ	< 40 Ω	1 kHz	20 kHz	2.36 in (60 mm)	(11.65 × 4.37 × 1.61) in
505	2139.82	AC / DC TRMS	400 A	600 V	400 A	600 V	600 Ω	< 35 Ω	400 Hz		1.18 in (30 mm)	(7.83 × 2.95 × 1.42) in
514	2117.70	AC / DC TRMS	1000 A	750 V	1000 A	1000 V	4000 Ω	< 40 Ω	10 kHz		1.58 in (40 mm)	(9.53 × 2.60 × 1.42) in
566	2139.83	AC TRMS	100 A	600 V	–	600 V	600 kΩ	< 45 Ω	500 Hz		0.91 in (23 mm)	(8.27 × 3.0 × 1.32) in
CM605	7000.02	AC / DC	100 A	600 V	100 A	600 V	9999 Ω	< 100 Ω	500 Hz		0.60 in (15 mm)	(7.95 × 2.76 × 1.33) in
400D	2153.31	AC TRMS	400 A	–	–	–	–	–	10 Hz to 3 kHz		(2.75 to 8) in	(3.94 × 2.36 × 0.79) in
4000D	2153.32	AC TRMS	4000 A	–	–	–	–	–	10 Hz to 3 kHz		(3.94 to 8) in	(3.94 × 2.36 × 0.79) in



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DataView®

DATA ANALYSIS AND REPORTING SOFTWARE





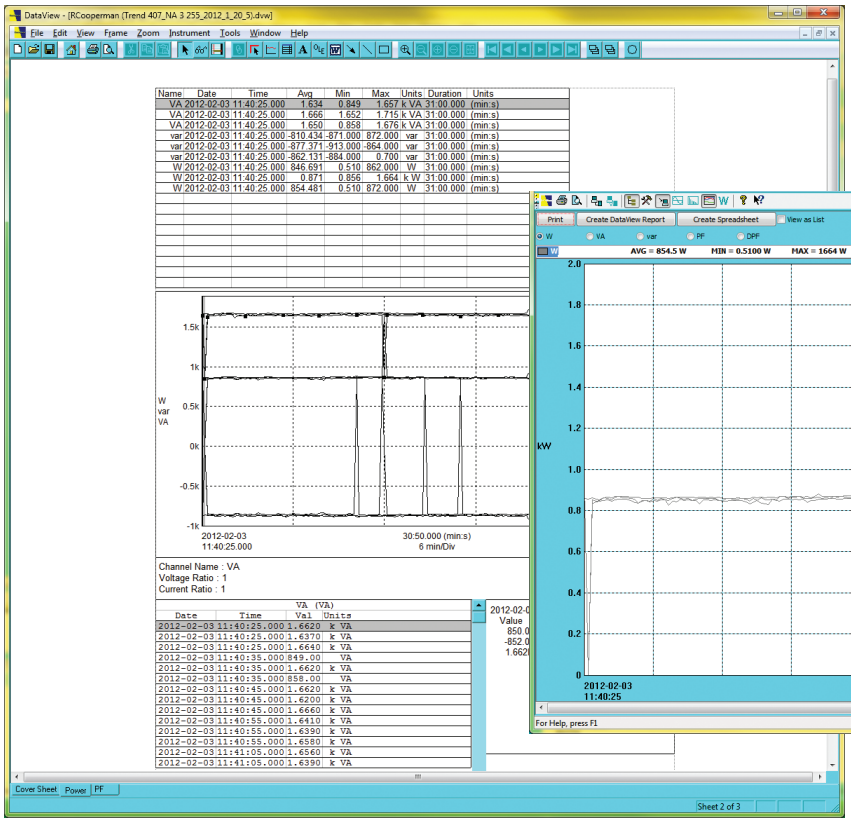
DataView® software, user manual and quick start guide are included in the USB Drive

AUTOMATIC REPORT GENERATION

Bluetooth®

Configure all functions:

- Download and store recorded data
- Wireless Bluetooth® communication
- Print reports using the included default templates or custom templates that you design
- Free updates are available on our website ***www.aemc.com***



DataView® software report

Clean, easy-to-read report of test results

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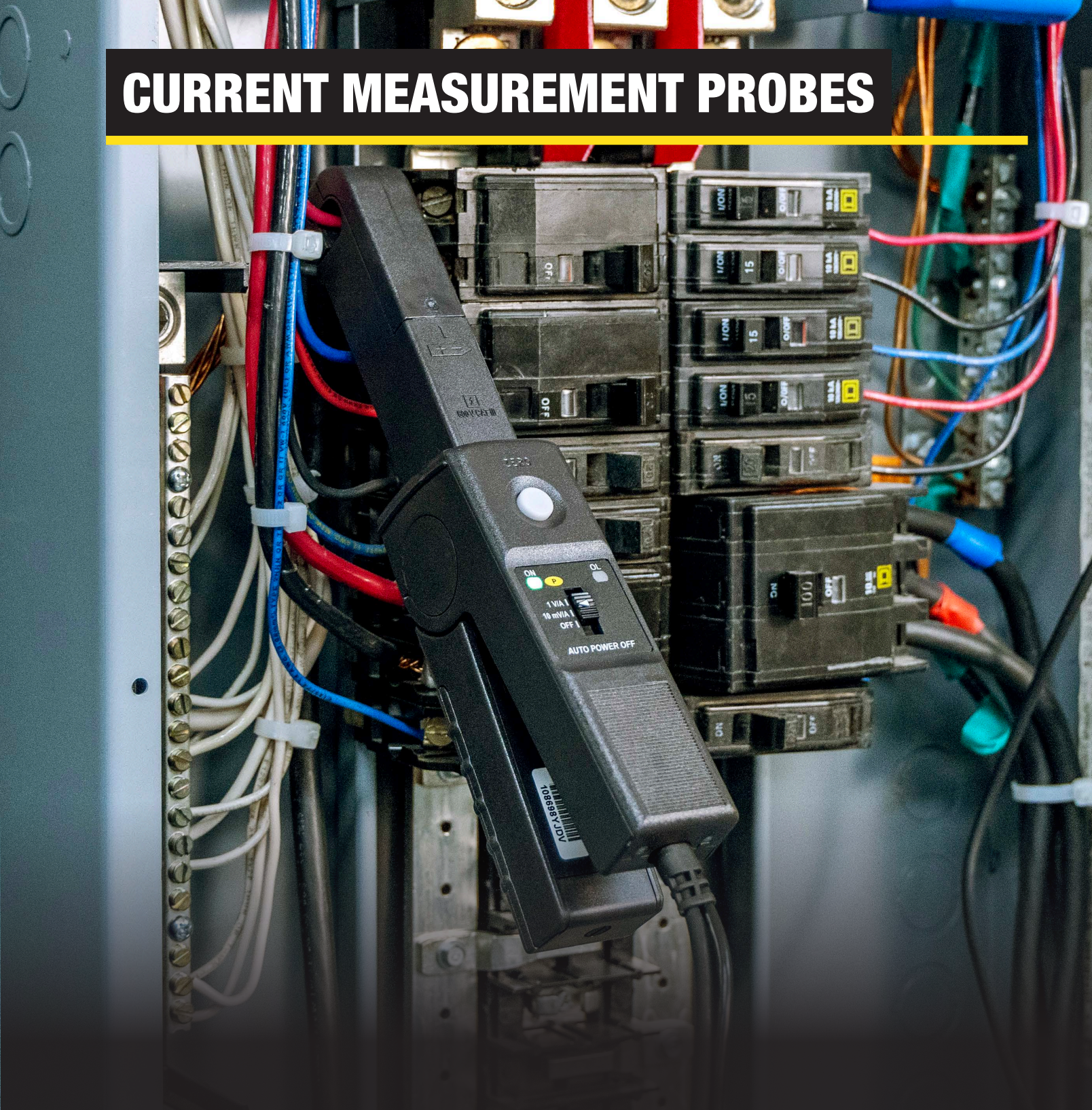
AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

Built on Experience. Driven by Innovation.

Our history spans more than 130 years of electrical measurement expertise. That experience is at the foundation of every AEMC® instrument, helping us develop dependable, innovative solutions that meet the evolving needs of electrical professionals.

Engineered for Excellence
RELIABILITY WHEN IT MATTERS™

CURRENT MEASUREMENT PROBES



Why choose AEMC® Instruments Current Measurement Probes?

Our range of current probes are compact, simple-to-use, accurate and are designed and tested by electrical engineers offering superior knowledge in safety and time-saving features to help you confidently troubleshoot and solve problems. Standard and customized output options provide easy interface to data loggers, meters, oscilloscopes, control systems, and more.

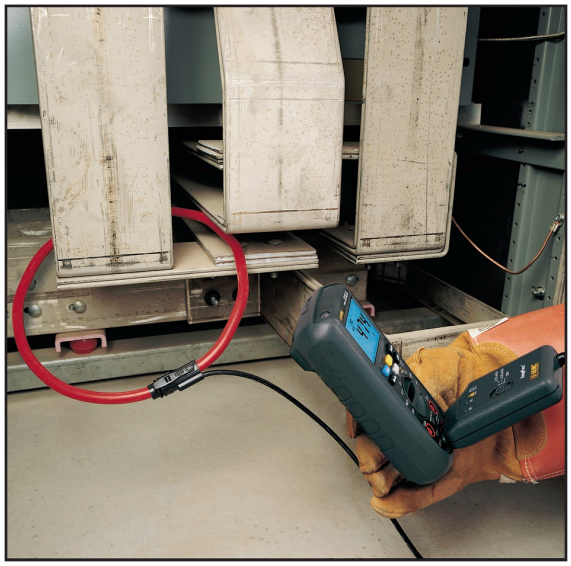
SEE WEBSITE FOR PRICING AND AVAILABILITY: **WWW.AEMC.COM**

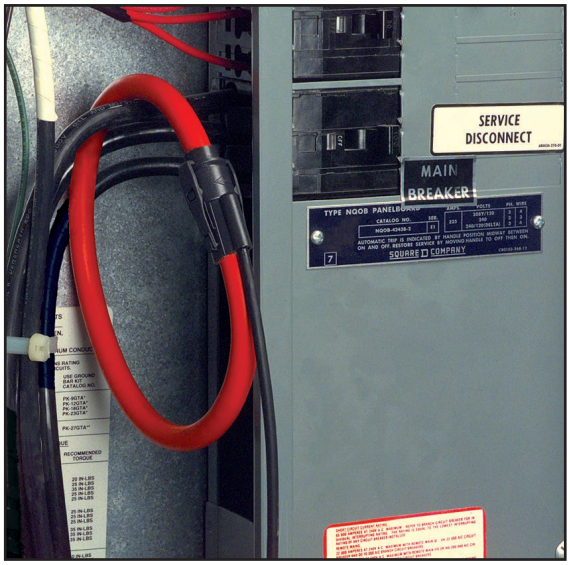
1000 V CAT III | 600 V CAT IV | CE

AMPFLEX® FLEXIBLE CURRENT PROBES

Flexible AC current probes that reach where rigid clamps can't — ideal for oversized conductors, cable bundles, and confined spaces.







FEATURES

- Models available from (5 to 30,000) Arms with sensor lengths from (24 to 120) in to accommodate virtually any conductor configuration
- Accuracy of ± 1 % of reading with very high frequency response and low phase shift of 1.5° or less for reliable power measurements
- Waterproof sensor with shape memory allows custom pre-shaping before use, eliminating drooping in awkward installations
- No core saturation — safe to use on overloaded conductors without risk of damage to the probe
- 9 V alkaline battery provides up to 150 hours of continuous operation; output via 4 mm safety banana jacks for broad instrument compatibility

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2112.88	AmpFlex® (30/300) A, 24 in, 100 mV/10 mV/A
2113.39	AmpFlex® (30/300) A, 120 in, 100 mV/10 mV/A
2112.39	AmpFlex® 1000 A, 24 in, 1 mV/A
2112.98	AmpFlex® (100/1000) A, 24 in, 10 mV/1 mV/A
2113.00	AmpFlex® (100/1000) A, 36 in, 10 mV/1 mV/A
2112.46	AmpFlex® 3000 A, 24 in, 1 mV/A
2113.05	AmpFlex® (300/3000) A, 24 in, 10 mV/1 mV/A
2112.48	AmpFlex® 3000 A, 36 in, 1 mV/A
2112.00	AmpFlex® (300/3000) A, 36 in, 10 mV/1 mV/A
2112.01	AmpFlex® (300/3000) A, 48 in, 10 mV/1 mV/A
2113.21	AmpFlex® (600/6000) A, 36 in, 1 mV/ 0.1 mV/A
2113.33	AmpFlex® (3000/30000) A, 24 in, 1 mV/0.1 mV/A

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AMPFLEX® FLEXIBLE CURRENT PROBES

MODELS	300-24-2-10	300-120-2-10	1000-24-2-1	1000-36-2-1	3000-24-1-1	3000-36-1-1	3000-24-2-1	3000-36-2-1	3000-48-2-1	6000-36-2-0.1	30000-24-2-0.1
ELECTRICAL											
AC Range	(5 to 300) A		(5 to 1000) A		(5 to 3000) A					(5 to 6000) A	(5 to 30,000) A
Output Signal	100 mV/A, 10 mV/A		10 mV/A, 1 mV/A		1 mV/A		10 mV/A, 1 mV/A			1 mV/A, 100 µV/A	
Typical Accuracy	± 1 % + 0.2 A									± 1 % + 0.5 A	± 1 % + 1 A
Frequency Range	10 Hz to 20 kHz										
Phase Shift	≤ 1.3° (300 A models) / ≤ 0.7° (1000 & 3000 A) / ≤ 0.5° (6000 & 30,000 A)										
Overload	No damage if overloaded										
MECHANICAL											
Max Conductor Size	8 in (190 mm)	38 in (965 mm)	8 in (190 mm)	11 in (290 mm)	8 in (190 mm)	11 in (290 mm)	8 in (190 mm)	11 in (290 mm)	15 in (390 mm)	11 in (290 mm)	8 in (190 mm)
Output Termination	4 mm safety banana jacks										
POWER											
Power Supply	9 V alkaline battery										
Battery Life	150 h										
SAFETY											
Safety Rating	1000 V CAT III / 600 V CAT IV										
Ingress Protection	IP65 *(sensor)* / IP40 *(module)*										
COMPATIBILITY											
Compatible Instruments	DMMs, Data Loggers, Power Analyzers										

Consult factory for NIST Calibration prices.

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1000 V CAT III | 600 V CAT IV | CE | ⧈

FLEXPROBE® FLEXIBLE CURRENT PROBE 24-3001

A plug-and-play flexible AC current probe designed for direct connection to DMMs, oscilloscopes, and power recorders — no adapters required.



MODEL	24-3001
ELECTRICAL	
AC Range	10 mV/A: (5 to 300) A 1 mV/A: (50 to 3000) A
Output Signal	10 mV/A, 1 mV/A
Typical Accuracy	± 1 % + 0.5 A
Frequency Range	40 Hz to 5 kHz
Phase Shift	< 0.7° *(typical)*
Overload	No damage if overloaded
MECHANICAL	
Max Conductor Size	Ø 7.6 in (193 mm)
Output Termination	4 mm safety banana plugs
POWER	
Power Supply	9 V alkaline battery
Battery Life	150 h
SAFETY	
Safety Rating	1000 V CAT III / 600 V CAT IV
Ingress Protection	IP40 *(module)* / IP65 *(sensor)*
COMPATIBILITY	
Compatible Instruments	DMMs, Data Loggers, Power Analyzers

Consult factory for NIST Calibration prices.

FEATURES

- Dual measurement ranges of 300 A and 3000 A with mV output directly proportional to current, allowing amperage to be read straight from the DMM display
- 24 inch flexible sensor accommodates conductors up to 7.6 inches in diameter for use on large cables and bus work
- Output of 10 mV/A on the 300 A range and 1 mV/A on the 3000 A range with accuracy of ± 1 % of reading ± 500 mA
- Flashing LED low-battery indicator and 9 V alkaline battery rated for up to 150 hours of typical use *(battery included)*
- Dual banana plug termination provides universal compatibility with digital multimeters and other voltage-input instruments

PRODUCT INCLUDES

CAT. #2120.81 FLEXPROBE® 24-3001
A flexible probe with electronic module, 9 V battery and a user manual.

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2120.81	FlexProbe® Model 24-3001 (Lead)

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CURRENT MEASUREMENT PROBES
MINIFLEX® SERIES

IP50 | IP54 | IP67 | 1000 V CAT III | 600 V CAT IV | CE | ⧈

Model MA114 *(Unit)* Model MA114 *(Sensor)*

HIGH FREQUENCY MINIFLEX® PROBES

Compact, battery-powered flexible current probes for accessing tight spaces and clamping onto cable bundles where conventional clamps won't fit.



MODEL MF 300-10-2-10-HF
(10 in probe)



MODEL MF 3000-14-1-1-HF
(14 in probe)



MODEL MF 3000-24-1-1
(24 in probe)

FEATURES

- Models cover measurement ranges from (0.5 to 3000) A with user-selectable ranges *(Model MA114)* or dual-range HF models optimized for oscilloscope use
- Model MA114 features a waterproof IP67 flexible sensor with positive-click locking to prevent accidental disconnection during measurement
- High-frequency models *(MF Series)* deliver 1 MHz frequency response with low phase shift — ideal for power measurements with any BNC oscilloscope
- Sensor is not affected by magnetic saturation, providing excellent linearity across the full measurement range
- Powered by AA batteries or USB *(Model MA114)* with up to 300 hours of battery life; banana plug or BNC output for broad instrument compatibility



MODEL MA114



PRODUCT INCLUDES

CAT. #2126.84 MINIFLEX® 30/300 A, 10 IN
CAT. #2126.86 MINIFLEX® 3000 A, 14 IN
CAT. #2132.63 MINIFLEX® 3000 A
9 V battery and a user manual.

CAT. #2153.41 MINIFLEX® 14 IN, MODEL MA114
(2) 1.5 V batteries (AA or LR6), multilingual safety data sheet, user manual, and verification certificate.

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2126.84	MiniFlex® 30/300 A, 10 in, 100 mV/10 mV/A High Frequency (for any BNC Oscilloscope)
2126.86	MiniFlex® 3000 A, 14 in, 1 mV/A High Frequency (for any BNC Oscilloscope)
2132.63	MiniFlex® 3000 A, 24 in, 1 mv/A ,10 ft BNC Output
2153.41	MiniFlex® 14 in, Model MA114 (3 A/1 mV/mA, 30 A/100 mV/A, 300 A/10 mV/A, 3000 A/1 mV/A)

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CURRENT MEASUREMENT PROBES
MINIFLEX® SERIES

HIGH FREQUENCY MINIFLEX® PROBES

MODELS	MA114	MF 3000-24-1-1	MF 300-10-2-10-HF	MF 3000-14-1-1-HF
ELECTRICAL				
AC Range	500 mA to 3000 A		500 mA to 300 A	500 mA to 3000 A
Output Signal	1 mV/mA, 100 mV/A, 10 mV/A, 1 mV/A	1 mV/A	100 mV/A, 10 mV/A	1 mV/A
Typical Accuracy	(1 to 1.5) % *(range dependent)*	± 1 % + 0.25 A	± 1 % + 0.3 A	± 1 % + 0.3 A
Frequency Range	10 Hz to 20 kHz (10 kHz on 3 A range)	10 Hz to 20 kHz	5 Hz to 1 MHz	
Phase Shift	≤ 1°	≤ 1.5° *(typical)*	≤ 1.5°	
Overload	No damage if overloaded			
Load Impedance	≥ 1 MΩ			
MECHANICAL				
Max Conductor Size	Ø 3.93 in (100 mm)	Ø 7.5 in (190 mm)	Ø 2.75 in (70 mm)	Ø 3.93 in (100 mm)
Output Termination	4 mm safety banana plugs	BNC		
POWER				
Power Supply	(2) AA batteries or 5 V micro-USB	9 V alkaline battery		
Battery Life	300 h	140 h		
SAFETY				
Safety Rating	1000 V CAT III / 600 V CAT IV	1000 V CAT III / 600 V CAT IV *(sensor)* 600 V CAT III / 300 V CAT IV *(unit)*		
Ingress Protection	IP54 *(unit)*, IP67 *(sensor)*	IP50		
COMPATIBILITY				
Compatible Instruments	DMMs, Data Loggers, Power Analyzers	Oscilloscopes (BNC)		

Consult factory for NIST Calibration prices.



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CURRENT MEASUREMENT PROBES

MN SERIES AC CURRENT PROBES

MODELS MN01, MN02, MN05, MN09 & MN134

IP 40 | 600 V CAT III | 300 V CAT IV | CE

Models MN01, MN02 & MN05

Small clothespin-style probes for measuring low AC currents in tight spaces such as breaker panels, control panels, and secondary transformer circuits.



MODEL MN01



MODEL MN02



MODEL MN05



MODEL MN09



MODEL MN134

FEATURES

- Jaw opening accommodates conductors up to 0.39 inches in diameter — ideal for closely spaced wiring in panels and outlet boxes
- Measurement ranges from 1 mA to 150 A_{AC} *(model dependent)*, enabling very low current measurements not possible with standard clamp meters
- Voltage output signals (1 mV/mA, 100 mV/A, or 1 mA/A) are compatible with virtually any voltmeter, multimeter, or data logger; Model MN09 provides a DC voltage output for instruments with limited AC sensitivity
- Model MN134 measures from 1 mA to 10 A with 100 mV/A output — ideal for very low-level circuit diagnostics including control wiring and leakage detection
- Clothespin spring-grip design provides secure, hands-free clamping for sustained measurements in hard-to-reach locations



See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2129.17	AC Current Probe Model MN01 (150 A, 1 mA/A, Lead)
2129.19	AC Current Probe Model MN05 (100 A, 1 mV/A & 10 A, 1 V/A, Lead)
2129.20	AC Current Probe Model MN02 (100 A, 1 mA/A, Lead, 1 % Accuracy)
2129.21	AC Current Probe Model MN09 (150 A, 100 mV_{DC}/A_{AC}, Lead)
2129.22	AC Current Probe Model MN134 (10 A, 100 mV/A, Lead)

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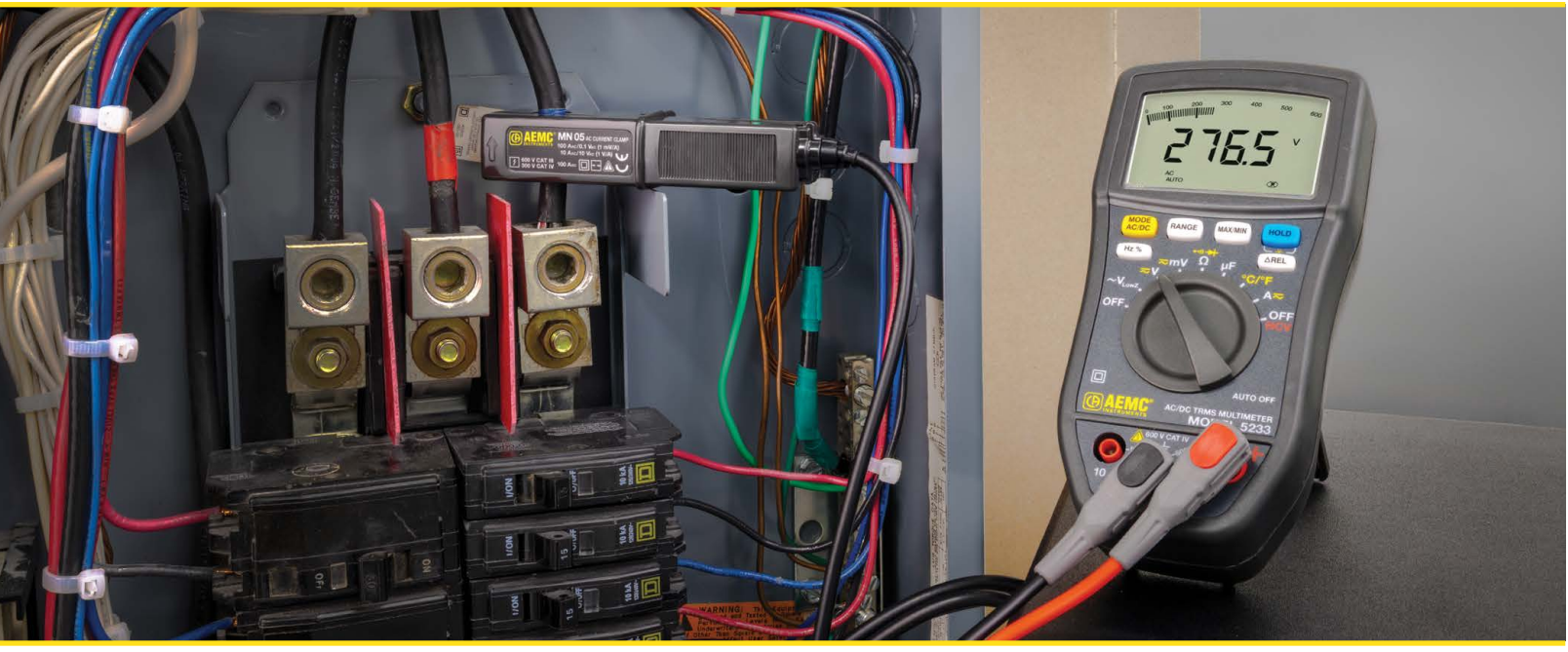
CURRENT MEASUREMENT PROBES
MN SERIES AC CURRENT PROBES
MODELS MN01, MN02, MN05, MN09 & MN134

Patent #1385787 - Mini-Clamp Design

MODELS	MN01	MN02	MN05	MN09	MN134
ELECTRICAL					
AC Range	(2 to 150) A	50 mA to 100 A	10 A range: 5 mA to 10 A 100 A range: (1 to 100) A	(1 to 150) A	1 mA to 10 A
Output Signal	1 mA/A		1 mV/mA, 1 mV/A	100 mV/A *(DC output)*	100 mV/A
Typical Accuracy	(2.5 to 3) % *(load dependent)*	(1 to 1.5) % *(load dependent)*	(2 to 3) % *(range dependent)*	(3 to 10) % *(range dependent)*	2 % + 2 mA
Frequency Range	(48 to 500) Hz	48 Hz to 10 kHz	(48 to 500) Hz		
Phase Shift	Not specified	< 3° (1 Ω load)	Not specified		< 10°
Overload	170 A		10 A range: 15 A continuous 100 A range: 150 A continuous	170 A	20 A continuous
Load Impedance	≤ 10 Ω[1]		≥ 1 MΩ	≥ 50 kΩ	≥ 1 MΩ
MECHANICAL					
Max Conductor Size	Ø 0.39 in (10 mm)				
Output Termination	4 mm safety banana plugs				
SAFETY					
Safety Rating	600 V CAT III / 300 V CAT IV			600 V CAT III	
Ingress Protection	IP40				
COMPATIBILITY					
Compatible Instruments	DMMs, Data Loggers		DMMs, Data Loggers, Voltmeters (≥ 1 MΩ input)	DMMs, Data Loggers	

Consult factory for NIST Calibration prices.

[1] Maximum load impedance — probe has current output; exceeding this value will degrade accuracy



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CURRENT MEASUREMENT PROBES
MN SERIES AC CURRENT PROBES
MN200 SERIES

IP 40 | 600 V CAT III | c UL us | CE

General-purpose AC current probes with voltage output for use with DMMs and any instrument with a voltage input — including instruments without dedicated current ranges.



MODEL MN261



MODEL MN291

MODELS	MN251T	MN255	MN261	MN291
ELECTRICAL				
AC Range	500 mA to 240 A	100 mV/A: 100 mA to 24 A 10 mV/A: 500 mA to 240 A		500 mA to 240 A
Output Signal	1 mV/A	100 mV/A, 10 mV/A		100 mVDC/A
Typical Accuracy	(1.0 to 3.0) % + 0.5 mV *(range dependent)*	(1.0 to 3.0) % + 5 mV (range dependent)	(1.5 to 3.5) % + 5 mV *(range dependent)*	(2.0 to 3.0) % + 50 mV *(range dependent)*
Frequency Range	40 Hz to 10 kHz			
Phase Shift	N/S (0.5 to 10) A; ≤ 5° (10 to 40) A; ≤ 3° (40 to 100) A; ≤ 2.5° (100 to 240) A	N/S (0.5 to 10) A; ≤ 5° (10 to 40) A; ≤ 3° (40 to 100) A; ≤ 2.5° (100 to 240) A	N/A (0.5 to 10) A; ≤ 6° (10 to 40) A; ≤ 4° (40 to 100) A; ≤ 3° (100 to 240) A	–
Overload	240 A			
Load Impedance	> 1 MΩ			
MECHANICAL				
Max Conductor Size	Ø 0.78 in (20 mm)			
Output Termination	10 ft lead with BNC	4 mm safety banana plugs	6 ft lead with BNC	4 mm safety banana plugs
SAFETY				
Safety Rating	600 V CAT III			
Ingress Protection	IP40			
COMPATIBILITY				
Compatible Instruments	Oscilloscopes, DMMs	DMMs	Oscilloscopes, DMMs	DMMs, Data Loggers

Consult factory for NIST Calibration prices.

FEATURES

- Measurement ranges from 100 mA to 240 A with frequency response to 10 kHz across all models
- Output signal directly proportional to current measured (1 mV/A, 10 mV/A, or 100 mV/A) allows current readings on any voltmeter or data logger
- Model MN291 provides a DC voltage output proportional to AC current for use with instruments with limited or no AC measurement capability
- Jaw opening of 0.83 inches accommodates conductors up to 250 kcmil for use in commercial and industrial distribution panels
- UL Approved; rated 600 V CAT III with double insulated construction

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2132.59	AC Current Probe Model MN251T (200 A, 1 mV/A, Lead)
2115.81	AC Current Probe Model MN255 (20 A, 100 mV/A & 200 A, 10 mV/A, Lead)
2115.82	AC Current Probe Model MN261 (20 A, 100 mV/A & 200 A, 10 mV/A, BNC)
2115.84	AC Current Probe Model MN291 (200 A, 100 mVDC/A, Lead)

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CURRENT MEASUREMENT PROBES
MN SERIES AC CURRENT PROBES
MN300 SERIES

Compact probes optimized for low current and leakage current measurement — compatible with multimeters, data loggers, and oscilloscopes.


MN307


MN379T

MODELS	MN307	MN352	MN375	MN379	MN379T
ELECTRICAL					
AC Range	100 mA to 12 A	100 mA to 200 A	100 mA to 10 A	5 A range: 5 mA to 6 A 100 A range: 100 mA to 120 A	
Output Signal	100 mV/A	10 mV/A	100 mV/A	200 mV/A, 10 mV/A	
Typical Accuracy	(1 to 2.5) %	(1 to 7) %	1 % + 2 mV or 1.5 mV *(based on range)*	(1 to 1.5) %	
Frequency Range	40 Hz to 10 kHz		40 Hz to 3 kHz	40 Hz to 10 kHz	
Phase Shift	≤ 5° (0.1 to 1) A ≤ 3° (1 to 5) A ≤ 2.5° (5 to 12) A	N/S (< 1 A) ≤ 3° (1 to 20) A ≤ 2° (20 to 80) A ≤ 3° (80 to 150) A ≤ 4° (150 to 200) A	≤ 1 ° (1 to 5) A @ 60 Hz ≤ 1.5 ° (5 to 10) A @ 60 Hz	5 A: ≤ 6.5°; 100 A: ≤ 3.2°	
Overload	20 A continuous	240 A / 10 min	20 A continuous	200 A max to 1 kHz	
Load Impedance	> 1 MΩ				
MECHANICAL					
Max Conductor Size	Ø 0.78 in (20 mm)				
Output Termination	4 mm safety banana plugs				10 ft Lead with BNC
SAFETY					
Safety Rating	600 V CAT III				
Ingress Protection	IP40				
COMPATIBILITY					
Compatible Instruments	DMMs, Data Loggers				DMMs, Oscilloscopes, Data Loggers

Consult factory for NIST Calibration prices.

FEATURES

- Measurement ranges from 5 mA to 200 A_{AC} *(model dependent)* with crest factor support for accurate readings on distorted waveforms
- High-sensitivity models *(Models MN307 and MN375)* measure currents as low as 10 mA, well-suited for leakage current and low-load circuit diagnostics
- Dual-range models *(Models MN379 and MN379T)* cover both low-current (5 A) and high-current (100 A) in a single probe — Model MN379T adds a 10 ft BNC output lead for direct oscilloscope connection
- UL Approved *(all models except MN379 and MN379T)* ; rated 600 V CAT III with IP40 ingress protection and frequency response to 10 kHz *(model dependent)*

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2116.23	AC Current Probe Model MN307 (12 A, 100 mV/A, Lead)
2116.26	AC Current Probe Model MN352 (150 A, 10 mV/A, Jack)
2115.41	AC Current Probe Model MN375 (10 A, 100 mV/A, Lead)
2153.01	AC Current Probe Model MN379 (5 A, 200 mV/A & 100 A, 10 mV/A, Lead)
2153.02	AC current probe Model MN379T (5 A, 200 mV/A & 100 A, 10 mV/A, 10 ft. BNC Lead)

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CURRENT MEASUREMENT PROBES
LM SERIES

IP20 | 600 V CAT III | 300 V CAT IV | CE | ⧈

MODELS LM102 & LM103

Mini-clamp probes with high-performance magnetic cores for accurate AC current measurement in tight spaces — ideal for multimeters, data loggers, and power analyzers.



MODEL LM102

MODEL LM103

Patent #1385787 - Mini-Clamp Design

MODELS	LM102	LM103
ELECTRICAL		
AC Range	50 mA to 200 A	100 mA to 200 A
Output Signal	1 mA/A	1 mV/A
Typical Accuracy	(1 to 4) % *(load dependent)*	± 1.5 % + 0.02 A
Frequency Range	48 Hz to 10 kHz	
Phase Shift	≤ 3 ° (1 Ω load) ≤ 6 ° (10 Ω load)	≤ 3 °
Overload	350 A continuous	
Load Impedance	≤ 100 Ω[1]	≥ 10 kΩ
MECHANICAL		
Max Conductor Size	Ø 0.63 in (16 mm)	
Output Termination	4 mm safety banana plugs	
SAFETY		
Safety Rating	600 V CAT III / 300 V CAT IV	
Ingress Protection	IP20	
COMPATIBILITY		
Compatible Instruments	DMMs, Data Loggers, Power Analyzers	

Consult factory for NIST Calibration prices.

[1] Maximum load impedance — probe has current output; exceeding this value will degrade accuracy

FEATURES

- Clothespin-style jaw with 0.63-inch clamping diameter allows access to closely spaced conductors in control panels and junction boxes
- Measurement range from 50 mA to 200 A with over range capability up to 350 A continuous — handles real-world fault conditions without damage
- Available with 1 mA/A current output *(Model LM102)* or 1 mV/A voltage output *(Model LM103)* to match the input requirements of connected instruments
- High-performance magnetic material provides excellent linearity and phase shift of ≤3° for accurate power and power quality measurements
- Arrow marker on the jaw ensures correct conductor orientation for directional power measurement applications; rated 600 V CAT III, 300 V CAT IV

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2153.04	AC Current Probe Model LM102 (200 A / 1 mA/A)
2153.05	AC Current Probe Model LM103 (200 A / 1 mV/A)

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600 V CAT III | 300 V CAT IV | CE | ⧈

MD SERIES

Rugged hook-jaw AC current probes designed for cables and bus bars — including large conductors in industrial switchgear and distribution equipment.



MODEL MD361

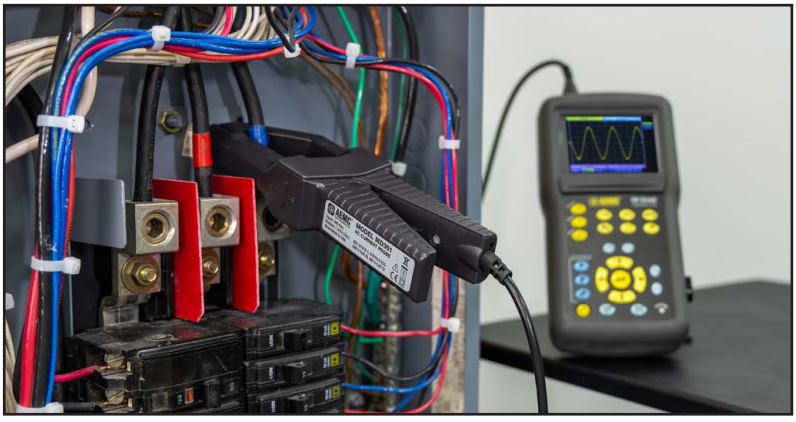
FEATURES

- Unique hook-shaped jaw enables the probe to pry into tight spaces or hook onto cables without requiring full conductor encirclement
- Accommodates conductors up to two 500 kcmil and bus bars up to (2.48 by 0.20) inches — handles large conductors found in commercial and industrial installations
- Available with 1 mVDC/AAC voltage output *(Model MD301)*, 1 mA/A current output *(Model MD305)*, or 1 mV/A voltage output with BNC connection *(Model MD361)*
- Model MD361 extends the series with 5 Hz to 10 kHz bandwidth and 300 V CAT IV rating — ideal for power quality and harmonic analysis applications
- Rated 600 V CAT III across all models, Pollution Degree 2; polycarbonate housing built for demanding industrial environments

MODELS	MD301	MD305	MD361
ELECTRICAL			
AC Range	(2 to 500) A	(1 to 600) A	(1 to 500) A; 700 A max
Output Signal	1 mVDC/A	1 mA/A	1 mV/A
Typical Accuracy	(1 to 5) % *(range dependent)*	(1 to 3) % *(range dependent)*	(2 to 5) % + 0.3 A *(range dependent)*
Frequency Range	(48 to 1000) Hz	(40 to 1000) Hz	5 Hz to 10 kHz
Phase Shift	–	3° (1 to 25) A 1.5° (25 to 100) A 1° (100 to 600) A	1° (100 to 500) A 3° (20 to 100) A
Overload	700 A for 10 min		
Load Impedance	≥ 100 kΩ	≤ 5 Ω[1]	1 MΩ
MECHANICAL			
Max Conductor Size	Ø 1.18 in (30 mm)		
Output Termination	4 mm safety banana plugs		Lead with BNC (50 Ω)
SAFETY			
Safety Rating	600 V CAT III 300 V CAT IV	600 V CAT III	600 V CAT III 300 V CAT IV
Ingress Protection	IP20		—
COMPATIBILITY			
Compatible Instruments	DMMs, Data Loggers, Power Analyzers		Oscilloscopes, DMMs

Consult factory for NIST Calibration prices.

[1] Maximum load impedance — probe has current output; exceeding this value will degrade accuracy



See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
1201.07	AC Current Probe Model MD301 (500 A, 1 mVDC/AAC, Lead)
1201.36	AC Current Probe Model MD305 (600 A, 1 mA/A, Lead)
2153.10	AC Current Probe Model MD361 (BNC)

Technical Assistance (800) 343-1391
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AEMC® INSTRUMENTS

CURRENT MEASUREMENT PROBES
SR SERIES CURRENT PROBES
SR600 & SR700 SERIES

600 V CAT III

High-accuracy, low phase shift AC current probes for power and power quality measurements — trusted in applications where measurement uncertainty matters.



MODEL SR604



MODEL SR661



MODEL SR752

FEATURES

- **SR600 Series:** measurement range from 100 mA to 1200 A with a 2.25 in jaw opening to accommodate two 500 kcmil conductors side by side
- **SR700 Series *(High Accuracy)*:** measurement range from 1 mA to 1200 A with phase shift ≤0.7° and frequency range to 5 kHz for precision power analysis
- **SR759:** provides four voltage output ranges (1000/100/10/1) mV/A in a single probe, covering (1 to 1000) A for maximum application flexibility
- **SR661:** offers BNC output with frequency response to 100 kHz — compatible with oscilloscopes, power meters, and harmonic analyzers
- UL Approved; all models rated 600 V CAT III and designed for use with DMMs, recorders, loggers, oscilloscopes, and power meters



See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2113.43	AC Current Probe Model SR601 (1000 A, 1 mA/A, Jack) L**
2113.44	AC Current Probe Model SR604 (1000 A, 1 mA/A, Lead) L**
2113.45	AC Current Probe Model SR651 (1000 A, 1 mV/A, Jack)
2113.49	AC Current Probe Model SR661 (10 A, 100 mV/A; 100 A, 10 mV/A & 1000 A, 1 mV/A, BNC)
2116.29	AC Current Probe Model SR701 (1000 A, 1 mA/A, Jack) HA* L**
2116.30	AC Current Probe Model SR704 (1000 A, 1 mA/A, Lead) HA* L**
2116.32	AC Current Probe Model SR752 (1000 A, 1 mV/A, Lead) HA*
2116.33	AC Current Probe Model SR759 (1 A, 10 A, 100 A, 1000 A, mV/A, Lead) HA*

*HA - High Accuracy and Low Phase Shift, **L - Limited open Voltage Output

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CURRENT MEASUREMENT PROBES
SR SERIES CURRENT PROBES
SR600 & SR700 SERIES

MODELS	SR604	SR651	SR661	SR701	SR704	SR752	SR759
ELECTRICAL							
AC Range	100 mA to 1200 A			1 mA to 1200 A		100 mA to 1200 A	1 mA to 1200 A
Output Signal	1 mA/A	1 mV/A	100 mV/A, 10 mV/A, 1 mV/A	1 mA/A		1 mV/A	1000 mV/A, 100 mV/A, 10 mV/A, 1 mV/A
Typical Accuracy	(.5 to 3) %		(1 to 3) %	(0.3 to 3) %		(0.3 to 2) %	(0.2 to 3) %
Frequency Range	30 Hz to 5 kHz		1 Hz to 100 kHz	30 Hz to 5 kHz			30 Hz to 3 kHz
Phase Shift	≤ 0.5° (≥ 1000 A)		(3 to 15) ° *(range dependent)*	(0.7 to 2) ° *(range dependent)*			(1 to 10) ° *(range dependent)*
Overload	1200 A / 15 min						
Load Impedance	≤ 5 Ω[1]	≥ 100 kΩ	≥ 1 MΩ	≤ 5 Ω[1]		≥ 100 kΩ	
MECHANICAL							
Max Conductor Size	Ø 2.05 in (52 mm)						
Output Termination	5 ft lead with 4 mm banana plugs	4 mm safety banana jacks	6.5 ft lead with BNC	4 mm safety banana jacks	5 ft Lead with 4 mm safety banana plugs		4 mm safety banana plugs
SAFETY							
Safety Rating	600 V CAT III		600 V CAT III 300 V CAT IV	600 V CAT III			600 V CAT III 300 V CAT IV
Ingress Protection	IP40						
COMPATIBILITY							
Compatible Instruments	DMMs, Data Loggers, Power & Harmonic Analyzers						

Consult factory for NIST Calibration prices.

[1] Maximum load impedance — probe has current output; exceeding this value will degrade accuracy



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CURRENT MEASUREMENT PROBES
K SERIES AC/DC MICROPROBE

300 V CAT II | CE | ⧈

MODELS K100 & K110

Ultra-compact AC/DC microprobes for high-accuracy low-current measurement — designed for circuits and components where even a small clamp is too large.



MODEL K100

MODEL K110

MODELS	K100	K110
ELECTRICAL		
AC Range	(0 to 3) ARMS	(0 to 300) mARMS
DC Range	0 to ± 4 A	0 to ± 400 mA
Output Signal	1 mV/mA	10 mV/mA
Resolution	***Mfg. Before 04/01/24*** DC: 50 µA typical AC: 100 µA typical	
	Mfg. After 04/01/24 DC: 100 µA typical AC: 200 µA typical	***Mfg. After 04/01/24*** DC: 50 µA typical AC: 150 µA typical
Typical Accuracy	***Mfg. Before 04/01/24*** DC: 1 % Reading ± 200 µA AC: 2 % Reading ± 200 µA	***Mfg. Before 04/01/24*** DC: (1 to 450) mA: 0.5 % Reading ± 150 µA AC: 0.8 % Reading ± 200 µA
	Mfg. After 04/01/24 DC: 1 mA to 2 A: 1 % Reading ± 300 µA (2 to 4) A: 2 % Reading ± 500 µA AC: 2 % Reading ± 500 µA	***Mfg. After 04/01/24*** DC: (1 to 200) mA: 0.5 % Reading ± 150 µA (200 to 400) mA: 1.5 % Reading ± 200 µA AC: 1 % Reading ± 300 µA
Frequency Range / Bandwidth	DC to 2 kHz	DC to 1.2 kHz
MECHANICAL		
Max Conductor Size	Ø 0.18 in (4.5 mm)	
Output Termination	4 mm safety banana plugs	
POWER		
Power Supply	9 V alkaline battery	
Battery Life	20 h	
SAFETY		
Safety Rating	300 V CAT II	
Ingress Protection	IP40	
COMPATIBILITY		
Compatible Instruments	DMMs, Oscilloscopes	

Consult factory for NIST Calibration prices.

FEATURES

- Measures both AC and DC currents simultaneously with no mode switching required — output signal is proportional to total current (AC + DC)
- Measures from 0 up to 3 AAC / ± 4 ADC *(Model K100)* or 300 mAAC / ± 400 mADC *(Model K110)*, with typical resolution down to 100 µA *(Model K100)* and 50 µA *(Model K110)* — ideal for detecting leakage, standby, and control currents
- High output signal of 1 mV/mA *(Model K100)* or 10 mV/mA *(Model K110)* with low output noise for clean, accurate display of low-amplitude waveforms on oscilloscopes and DMMs
- Jaw opening of just 0.18 in (4.5 mm) allows measurement on fine wires and component leads not accessible by any other clamp-type probe
- Red LED overload indicator and green LED battery/power status; 9 V battery with 20-hour life; simple plug-in operation with no range or mode switching

PRODUCT INCLUDES

CAT. #1200.67 AC/DC MICROPROBE MODEL K100
CAT. #2111.73 AC/DC MICROPROBE MODEL K110
Electronic plug-in module with an attached current probe, 9 V battery, and user manual.

See aemc.com for Accessories/Replacements

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

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CURRENT MEASUREMENT PROBES
SL SERIES AC/DC CURRENT PROBES
MODELS SL306 & SL361

600 V CAT III

Precision AC/DC current probes for milliamp to 100 A measurements — compatible with AEMC® and non-AEMC® instruments alike.



MODEL SL306



MODEL SL361

MODELS	SL306	SL361
ELECTRICAL		
AC Range	5 mA to 60 A	100 mA to 100 A[1]
DC Range	5 mA to 80 A	100 mA to 100 A
Output Signal	1 mV/mA (2 A range) 10 mV/A (80 A range)	100 mV/A (10 A range) 10 mV/A (100 A range)
Typical Accuracy	(2 to 12) % *(range dependent)*	(3 to 15) % *(range dependent)*
Frequency Range / Bandwidth	DC to 100 kHz	DC to 100 kHz
Phase Shift	< 1°	≤ 1.5°
Overload	N/A	
Load Impedance	≥ 1 MΩ and ≤ 100 pF	
MECHANICAL		
Max Conductor Size	Ø 0.46 in (11.8 mm)	
Output Termination	4 mm safety banana plugs	6.5 ft lead with BNC
POWER		
Power Supply	9 V alkaline battery or 5 V micro-USB	
Battery Life	80 h	
SAFETY		
Safety Rating	600 V CAT III / 300 V CAT IV	
Ingress Protection	IP20	
COMPATIBILITY		
Compatible Instruments	DMMs, Data Loggers	Oscilloscopes, DMMs

Consult factory for NIST Calibration prices.

[1] AC range specified in peak; RMS equivalent is lower for sinusoidal signals

FEATURES

- Model SL306 *(banana plug output)* and Model SL361 *(BNC output)* cover AC and DC current measurement with automatic standby after 10 minutes of inactivity to extend battery life
- Precision measurement with ± 2 % accuracy on the 2 A range and bandwidth up to 100 kHz *(*Model *SL361)*, suitable for high-frequency signal analysis
- Wide jaw accommodates conductors up to 0.46 inches in diameter; DC zero adjustment eliminates offset error before each measurement
- Overload indicator protects the probe when current exceeds the selected range; powered by 9 V battery or 5 V via micro-USB for up to 80 hours of operation
- UL Approved; rated 600 V CAT III — compact design accesses hard-to-reach conductors in crowded panels and enclosures

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2153.08	AC/DC Current Probe Model SL306 (1.5 AAC, 2 ADC, 1 mV/mA (1 V/A) & 60 AAC, 80 ADC, 10 mV/A, Lead)
2153.09	AC/DC Current Probe Model SL361 (10 Apeak, 100 mV/A & 100 Apeak, 10 mV/A, BNC)

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300 V CAT III | 600 V CAT II | CE | ⧈

MODEL MH60

Dual Hall effect and transformer technology for AC and DC current measurement from DC to 1 MHz — the broadest frequency response in the current probe lineup.

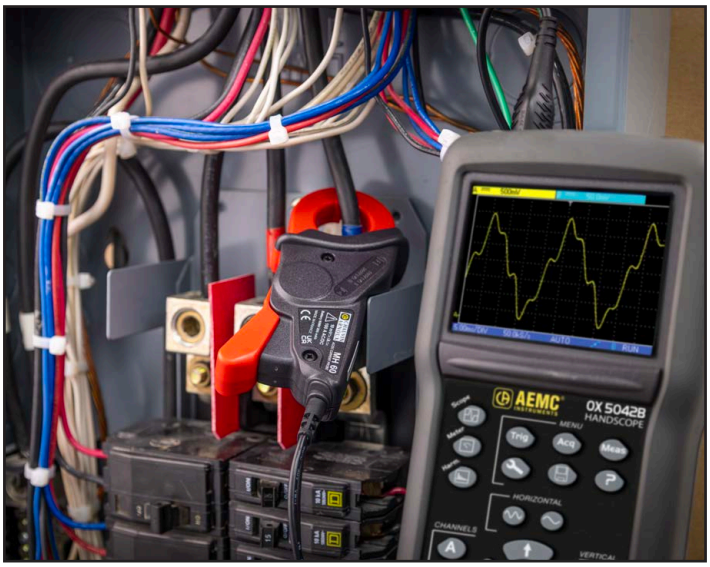


MODEL	MH60
ELECTRICAL	
AC Range	500 mA to 100 A
DC Range	500 mA to 100 A
Output Signal	10 mV/A
Typical Accuracy	(1.5 to 5) % *(range dependent)*
Frequency Range / Bandwidth	DC to 1 MHz
Phase Shift	± 1° at 50 Hz
Overload	100 A continuous; 1500 A_{DC} / 1 min
Load Impedance	≥ 1 MΩ and ≤ 100 pF
MECHANICAL	
Max Conductor Size	Ø 1.02 in (26 mm)
Output Termination	6.6 ft Lead with BNC
POWER	
Power Supply	NiMH Rechargeable Battery or 5 V Micro-USB
Battery Life	8 h
SAFETY	
Safety Rating	600 V CAT II / 300 V CAT III
Ingress Protection	IP40
COMPATIBILITY	
Compatible Instruments	Oscilloscopes, Power Analyzers

Consult factory for NIST Calibration prices.

FEATURES

- Measures AC and DC currents from 500 mA to 100 A with a single 10 mV/A output and frequency response from DC to 1 MHz for wide band signal analysis
- Dual technology *(Hall effect + transformer)* with automatic compensation for the earth's magnetic field ensures consistent accuracy across operating environments
- Selectable (3 or 30) kHz low-pass filter reduces noise for stable readings in electrically challenging environments
- Rechargeable NiMH battery provides 8 hours of untethered operation; also powered continuously via micro-USB
- Rated 600 V CAT II, 300 V CAT III with BNC output on a 6.6 ft coaxial cable for direct connection to oscilloscopes and waveform-capable instruments



See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2153.03	AC/DC Current Probe Model MH60 (100 A, 1 MHz, BNC)

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CURRENT MEASUREMENT PROBES

MR SERIES AC/DC CURRENT PROBES

IP 40 | 600 V CAT III | CE

MODELS MR415, MR416, MR417, MR526 & MR527

Hall effect AC/DC current probes for general-purpose and oscilloscope use — measuring both AC and DC without changing modes or leads.



MODEL MR415



MODEL MR416



MODEL MR417



MODEL MR526



MODEL MR527

FEATURES

- Measures AC and DC simultaneously using Hall effect technology; automatic zero DC reset on both ranges eliminates offset errors at the push of a button
- Banana plug models *(Models MR415, MR416, and MR526)* cover ranges from 40 mA to 1400 A$_{DC}$ and (0.5 to 1000) A$_{AC}$ across three models for broad application coverage
- BNC output models *(Models MR417 and MR527)* are optimized for oscilloscopes and waveform displays with coaxial output on a 6.5 ft cable for clean signal transfer
- Frequency range DC to 30 kHz (–3 dB) with phase shift ≤2.2° at rated current; battery life up to 50 hours or continuous operation via 5 V micro-USB
- Red LED overload indicator and green LED low-battery warning; jaw accommodates cables up to 1.5 in and multiple bus bar configurations; rated 600 V CAT III



See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
1200.80	AC/DC Current Probe Model MR415 (400 A$_{AC}$, 1 mV/A & 600 A$_{DC}$, 1 mV/A, 4 mm Banana Plug Lead) - Replaces MR410
1200.82	AC/DC Current Probe Model MR416 (40 A$_{AC}$, 60 A$_{DC}$, 10 mV/A & 400 A$_{AC}$, 600 A$_{DC}$, 1 mV/A, 4 mm Banana Plug Lead) - Replaces MR411
1200.83	AC/DC Current Probe Model MR526 (100 A$_{AC}$, 150 A$_{DC}$, 10 mV/A & 1000 A$_{AC}$, 1400 A$_{DC}$, 1 mV/A, 4 mm Banana Plug Lead) - Replaces MR521
1200.84	AC/DC Current Probe Model MR417 (40 A$_{AC}$, 60 A$_{DC}$, 10 mV/A & 400 A$_{AC}$, 600 A$_{DC}$, 1 mV/A, BNC Output) Replaces MR461
1200.85	AC/DC Current Probe Model MR527 (100 A$_{AC}$, 150 A$_{DC}$, 10 mV/A & 1000 A$_{AC}$, 1400 A$_{DC}$, 1 mV/A, BNC Output) Replaces MR561

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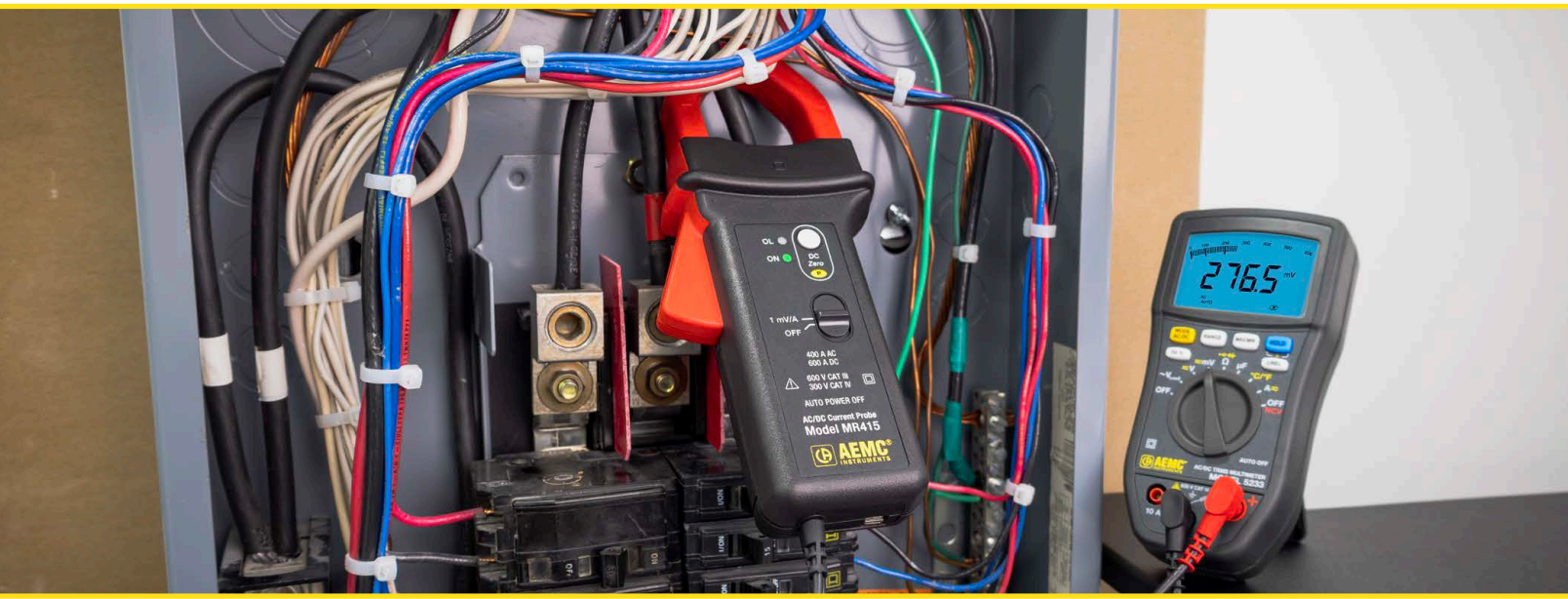
CURRENT MEASUREMENT PROBES
MR SERIES AC/DC CURRENT PROBES
MODELS MR415, MR416, MR417, MR526 & MR527

MODELS	MR415	MR416	MR417	MR526	MR527
ELECTRICAL					
AC Range	500 mA to 400 A			500 mA to 1000 A	
DC Range	500 mA to 600 A			500 mA to 1400 A	
Output Signal	1 mV/A	10 mV/A, 1 mV/A			
Typical Accuracy	(1.5 to 4) % *(range dependent)*			(1.5 to 5) % *(range dependent)*	
Frequency Range / Bandwidth	DC to 30 kHz				
Phase Shift	≤ 2.2° (3 to 300 A); ≤ 1.5° (300 to 400 A)	1 mV/A: ≤ 2.2° (3 to 300 A); ≤ 1.5° (300 to 400 A) 10 mV/A: ≤ 3° (1 to 20 A); ≤ 2.2° (20 to 40 A)		1 mV/A: ≤ 2° (3 to 200 A); ≤ 1.5° (200 to 1000 A) 10 mV/A: ≤ 2° (1 to 100 A)	
Overload	3000 A_{DC} or 1000 A_{AC} continuous				
Load Impedance	≥ 1 MΩ and ≤ 100 pF				
MECHANICAL					
Max Conductor Size	Ø 1.18 in (30 mm)			Ø 1.54 in (39 mm)	
Output Termination	4 mm safety banana plugs		6.6 ft lead with BNC	4 mm safety banana plugs	6.6 ft lead with BNC
POWER					
Power Supply	9 V alkaline battery or 5 V micro-USB				
Battery Life	50 h				
SAFETY					
Safety Rating	600 V CAT III / 300 V CAT IV				
Ingress Protection	IP40				
COMPATIBILITY					
Compatible Instruments	DMMs, Data Loggers, Power Analyzers		Oscilloscopes, Power Analyzers	DMMs, Data Loggers, Power Analyzers	Oscilloscopes, Power Analyzers

Consult factory for NIST Calibration prices.



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CURRENT MEASUREMENT PROBES
JM SERIES

600 V CAT III

MODELS JM810A, JM830A & JM861

Heavy-duty split-core AC current probes for high-current power measurement — built for energy monitoring, commissioning, and power quality analysis on large conductors.



MODEL JM861

MODELS	JM810A	JM830A	JM861
ELECTRICAL			
AC Range	(1 to 2000) A	(1 to 2400) A	(1 to 3000) A
Output Signal	1 mA/A	0.333 mA_{AC}/A_{AC}	10 mV/A, 1 mV/A, 100 µV/A
Transformation Ratio	2000:2	3000:1	Voltage Output
Frequency Range	30 Hz to 5 kHz	30 Hz to 5 kHz	10 Hz to 50 kHz
Typical Accuracy	(0.5 to 2) % *(range dependent)*	(0.5 to 1.5) % *(range dependent)*	≤ 2 %
Phase Shift	1.5 ° (100 A) 0.75 ° (400 A) 0.5 ° (2000 A)	1.5 ° (150 A) 0.75 ° (600 A) 0.5 ° (3000 A)	30 A: 20 ° / 10 ° / 5 ° 300 A: 3 ° / 1.5 ° / 1 ° 3000 A: 3 ° / 1.5 ° / 1 °
Overload	2400 A / 10 min	3600 A / 5 min	Not specified
Load Impedance	≤ 1 Ω[1]	≤ 5 Ω[1]	1 MΩ, 47 pF
MECHANICAL			
Max Conductor Size	Ø 2.52 in (64 mm)		
Max Bus Bar Size	1.97 × 5.31 in (50 × 135 mm) or 2.52 × 3.94 in (64 × 100 mm)		
Output Termination	5 ft Lead with 4 mm safety banana plugs		6.5 ft lead with BNC
SAFETY			
Safety Rating	600 V CAT III		
Ingress Protection	IP20		
COMPATIBILITY			
Compatible Instruments	DMMs, Data Loggers, Power & Harmonic Analyzers		Oscilloscopes, Power Analyzers

Consult factory for NIST Calibration prices.

[1] Maximum load impedance — probe has current output; exceeding this value will degrade accuracy

FEATURES

- Measurement ranges from 1 A to 3000 A_{AC} with accuracy down to 0.5 % and phase shift as low as 0.5° — delivering the precision demanded by power and harmonic analysis
- Large jaw accommodates conductors up to 2.52 inches (64 mm) in diameter and bus bars up to 1.97 × 5.31 inches — suitable for high-capacity feeders and distribution equipment
- Multiple output options:
  - Current output (1 mA/A on Model JM810A)
  - Voltage output (10/1/0.1 mV/A on Model JM861)
- Model JM861 offers BNC output with frequency response to 50 kHz for use with oscilloscopes and power analyzers; Models JM810A and JM830A terminate with 4 mm safety banana leads
- No external power required — passive transformer design for maintenance-free, long-term deployment; rated 600 V CAT III across all models

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
2110.80	AC Current Probe Model JM810A (2000 A, 1 mA/A, Lead)
2110.83	AC Current Probe Model JM830A (3000 A, 0.333 mA/A, Lead)
1200.83	AC Current Probe Model JM861(30 A, 10 mV/A; 300 A, 1 mV/A & 3000 A, 0.1 mV/A, BNC)

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CURRENT MEASUREMENT PROBES

SELECTION CHART

MODEL	SERIES/ FAMILY	TYPE	AC RANGE	DC RANGE	OUTPUT SIGNAL	FREQUENCY RANGE	MAX CONDUCTOR	TERMINATION	SAFETY RATING	CAT. #
ROGOWSKI / FELXIBLE										
300-24-2-10	AmpFlex®	Flexible AC	(5 to 300) A	N/A	100/10 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.88
300-120-2-10	AmpFlex®	Flexible AC	(5 to 300) A	N/A	100/10 mV/A	10 Hz to 20 kHz	38 in (970 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.39
1000-24-2-1	AmpFlex®	Flexible AC	(5 to 1000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.98
1000-36-2-1	AmpFlex®	Flexible AC	(5 to 1000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.00
3000-24-1-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	1 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.46
3000-36-1-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	1 mV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.48
3000-24-2-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.05
3000-36-2-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.00
3000-48-2-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	15 in (381 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.01
6000-36-2-0.1	AmpFlex®	Flexible AC	(5 to 6000) A	N/A	1 mV/A, 100 µV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.21
30000-24-2-0.1	AmpFlex®	Flexible AC	(5 to 30,000) A	N/A	1 mV/A, 100 µV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.33
24-3001	FlexProbe®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	40 Hz to 5 kHz	7.6 in (193 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2120.81
400D-10	Digital FlexProbe®	Flexible AC (Display)	100 mA to 399.9 A	N/A	Direct Display	10 Hz to 3 kHz	2.75 in (70 mm)	Built-in Display	600 V CAT IV	2153.31
400D-24	Digital FlexProbe®	Flexible AC (Display)	100 mA to 399.9 A	N/A	Direct Display	10 Hz to 3 kHz	8 in (203 mm)	Built-in Display	600 V CAT IV	2153.36
4000D-14	Digital FlexProbe®	Flexible AC (Display)	(1 to 3999) A	N/A	Direct Display	10 Hz to 3 kHz	3.94 in (100 mm)	Built-in Display	600 V CAT IV	2153.32
4000D-24	Digital FlexProbe®	Flexible AC (Display)	(1 to 3999) A	N/A	Direct Display	10 Hz to 3 kHz	8 in (203 mm)	Built-in Display	600 V CAT IV	2153.35
MA114	MiniFlex®	Flexible AC	500 mA to 3000 A	N/A	1 mV/mA, (100 / 10 / 1) mV/A	10 Hz to 20 kHz	3.93 in (100 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2153.41
MF 300-10-2-10-HF	MiniFlex® HF	Flexible AC (HF)	500 mA to 300 A	N/A	100/10 mV/A	5 Hz to 1 MHz	2.75 in (70 mm)	BNC	Housing: 600 V CAT III / 300 V CAT IV; Sensor: 1000 V CAT III / 600 V CAT IV	2126.84
MF 3000-14-1-1-HF	MiniFlex® HF	Flexible AC (HF)	500 mA to 3000 A	N/A	1 mV/A	5 Hz to 1 MHz	3.93 in (100 mm)	BNC	Housing: 600 V CAT III / 300 V CAT IV; Sensor: 1000 V CAT III / 600 V CAT IV	2126.86
MF 3000-24-1-1	MiniFlex®	Flexible AC	500 mA to 3000 A	N/A	1 mV/A	10 Hz to 20 kHz	7.5 in (190 mm)	BNC	Housing: 600 V CAT III / 300 V CAT IV; Sensor: 1000 V CAT III / 600 V CAT IV	2132.63

OUTPUT TERMINATIONS

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



Jacks
Two standard safety banana jacks (4 mm)



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



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



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CURRENT MEASUREMENT PROBES

SELECTION CHART

MODEL	SERIES/ FAMILY	TYPE	AC RANGE	DC RANGE	OUTPUT SIGNAL	FREQUENCY RANGE	MAX CONDUCTOR	TERMINATION	SAFETY RATING	CAT. #
AC IRON CORE										
MN01	MN Series	AC Iron Core	(2 to 150) A	N/A	1 mA/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2129.17
MN02	MN Series	AC Iron Core	50 mA to 100 A	N/A	1 mA/A	48 Hz to 10 kHz	0.39 in (10 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2129.20
MN05	MN Series	AC Iron Core	5 mA to 100 A	N/A	1 mV/mA, 1 mV/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2129.19
MN09	MN Series	AC Iron Core	(1 to 150) A	N/A	100 mV$_{DC}$/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III	2129.21
MN251T	MN200 Series	AC Iron Core	500 mA to 240 A	N/A	1 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Lead w/ BNC	600 V CAT III	2132.59
MN261	MN200 Series	AC Iron Core	100 mA to 24 A 500 mA to 240 A	N/A	(100 / 10) mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Lead w/ BNC	600 V CAT III	2115.82
MN291	MN200 Series	AC Iron Core	500 mA to 240 A	N/A	100 mV$_{DC}$/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2115.84
MN307	MN300 Series	AC Iron Core	100 mA to 12 A	N/A	100 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2116.23
MN352	MN300 Series	AC Iron Core	100 mA to 200 A	N/A	10 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Jacks	600 V CAT III	2116.26
MN375	MN300 Series	AC Iron Core	100 mA to 10 A	N/A	100 mV/A	40 Hz to 3 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2115.41
MN379	MN300 Series	AC Iron Core	5 mA to 120 A	N/A	(200 / 10) mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2153.01
MN134	MN Series	AC Iron Core	1 mA to 10 A	N/A	100 mV/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III	2129.22
MN379T	MN300 Series	AC Iron Core	5 mA to 120 A	N/A	(200 / 100 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Lead w/ BNC	600 V CAT III	2153.02
LM102	LM Series	AC Iron Core	50 mA to 200 A	N/A	1 mA/A	48 Hz to 10 kHz	0.63 in (16 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2153.04
LM103	LM Series	AC Iron Core	100 mA to 200 A	N/A	1 mV/A	48 Hz to 10 kHz	0.63 in (16 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2153.05
MD301	MD Series	AC Iron Core	(2 to 500) A	N/A	1 mV$_{DC}$/A	48 Hz to 1 kHz	1.18 in (30 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1201.07
MD305	MD Series	AC Iron Core	(1 to 600) A	N/A	1 mA/A	40 Hz to 1 kHz	1.18 in (30 mm)	Banana Plugs	600 V CAT III	1201.36
MD361	MD Series	AC Iron Core	(1 to 500) A; 700 A max	N/A	1 mV/A	5 Hz to 10 kHz	Ø 1.18 in (30 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	2153.10
SR604	SR600 Series	AC Iron Core	100 mA to 1200 A	N/A	1 mA/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III	2113.44
SR651	SR600 Series	AC Iron Core	100 mA to 1200 A	N/A	1 mV/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Jacks	600 V CAT III	2113.45
SR661	SR600 Series	AC Iron Core	100 mA to 1200 A	N/A	(100 / 10 / 1) mV/A	1 Hz to 100 kHz	2.05 in (52 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	2113.49
SR701	SR700 Series	AC Iron Core	1 mA to 1200 A	N/A	1 mA/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Jacks	600 V CAT III	2116.29
SR704	SR700 Series	AC Iron Core	1 mA to 1200 A	N/A	1 mA/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III	2116.30
SR752	SR700 Series	AC Iron Core	100 mA to 1200 A	N/A	1 mV/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III	2116.32
SR759	SR700 Series	AC Iron Core	1 mA to 1200 A	N/A	(1000 / 100 / 10 /1) mV/A	30 Hz to 3 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2116.33

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CURRENT MEASUREMENT PROBES

SELECTION CHART

MODEL	SERIES/ FAMILY	TYPE	AC RANGE	DC RANGE	OUTPUT SIGNAL	FREQUENCY RANGE	MAX CONDUCTOR	TERMINATION	SAFETY RATING	CAT. #
HALL EFFECT (AC/DC)										
K100	K Series	Hall Effect AC/DC	(0 to 3) Arms	0 to ± 4 A	1 mV/mA	DC to 2 kHz	0.18 in (4.5 mm)	Banana Plugs	300 V CAT II	1200.67
K110	K Series	Hall Effect AC/DC	(0 to 300) mArms	0 to ± 400 mA	10 mV/mA	DC to 1.2 kHz	0.18 in (4.5 mm)	Banana Plugs	300 V CAT II	2111.73
SL306	SL Series	Hall Effect AC/DC	(5 mA to 60) A	5 mA to 80 A	1 mV/mA, 10 mV/A	DC to 20 kHz	0.46 in (11.8 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2153.08
SL361	SL Series	Hall Effect AC/DC	100 mA to 100 A	100 mA to 100 A	100 / 10 mV/A	DC to 100 kHz	0.46 in (11.8 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	2153.09
MR415	MR Series	Hall Effect AC/DC	500 mA to 400 A	500 mA to 600 A	1 mV/A	DC to 30 kHz	1.18 in (30 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1200.80
MR416	MR Series	Hall Effect AC/DC	500 mA to 400 A	500 mA to 600 A	10 / 1 mV/A	DC to 30 kHz	1.5 in (38 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1200.82
MR526	MR Series	Hall Effect AC/DC	500 mA to 1000 A	500 mA to 1400 A	10 / 1 mV/A	DC to 30 kHz	1.5 in (38 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1200.83
MR417	MR Series	Hall Effect AC/DC	500 mA to 400 A	500 mA to 600 A	10 / 1 mV/A	DC to 30 kHz	1.18 in (30 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	1200.84
MR527	MR Series	Hall Effect AC/DC	500 mA to 1000 A	500 mA to 1400 A	10 / 1 mV/A	DC to 30 kHz	1.5 in (38 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	1200.85
MH60	MH Series	Hall Effect AC/DC (1 MHz)	500 mA to 100 A	500 mA to 100 A	10 mV/A	DC to 1 MHz	1.02 in (26 mm)	Lead w/ BNC	600 V CAT II 300 V CAT III	2153.03

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AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

Looking for tailor-made solutions to meet your unique requirements? We offer custom products on an OEM basis, designed specifically to fit your needs.

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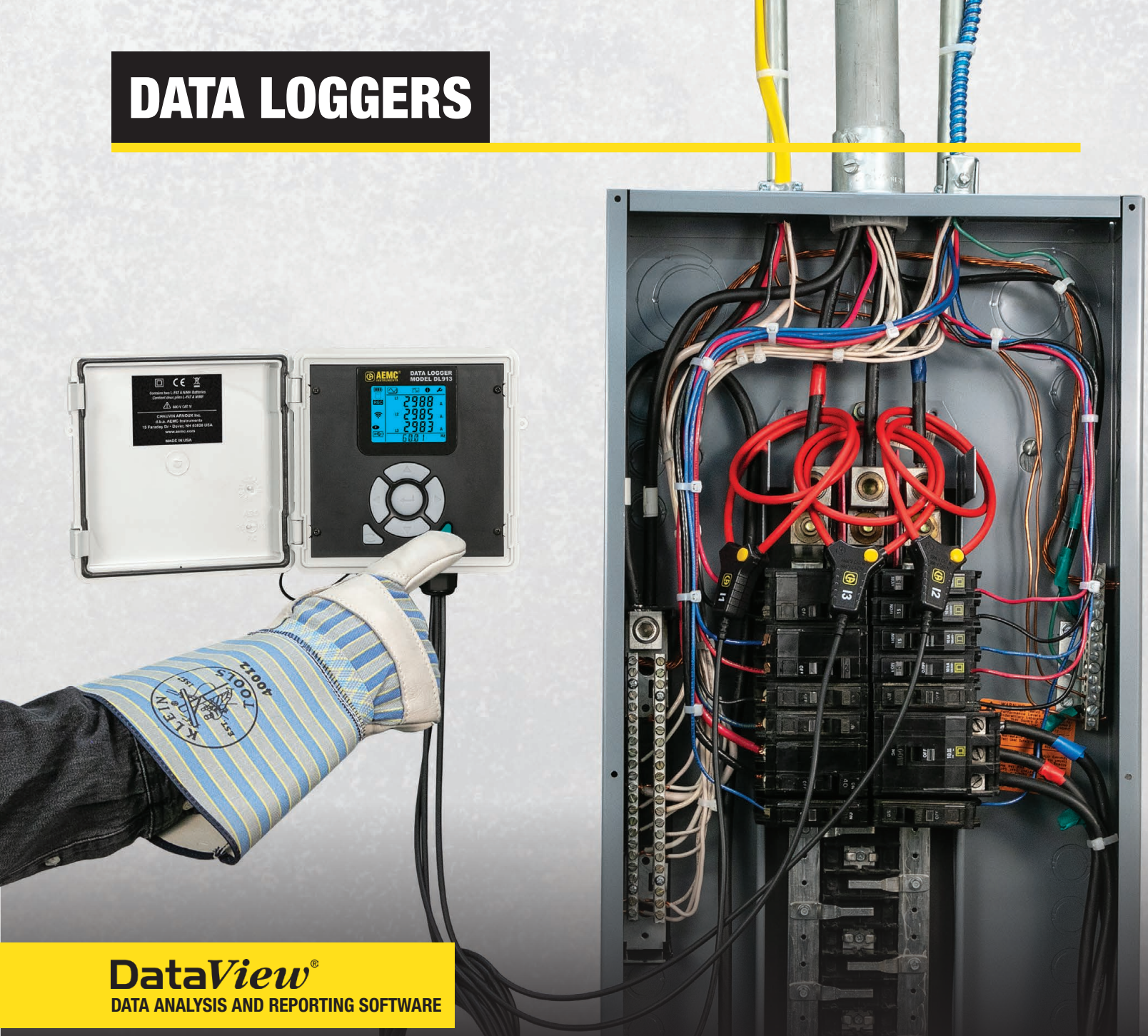
RELIABILITY WHEN IT MATTERS™

DATA LOGGERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Data Loggers?

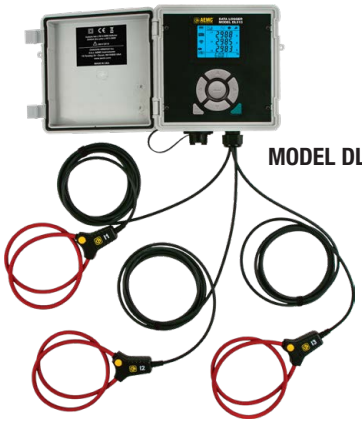
Our data loggers provide accurate, long-term recording of electrical and process measurements. The range includes single-, two-, three-, and four-channel models for AC current, AC/DC voltage, and DC process signals. Each logger is designed for fast setup: connect, configure, and start recording within minutes. Recorded data can be analyzed and reported with the included DataView® or Simple Logger® Control Panel software. Wi-Fi communication, a built-in web server, and DataViewSync® enable remote configuration and real-time monitoring from a browser or mobile device *(model dependent).* Rugged designs rated up to IP67 support unattended monitoring in demanding environments.

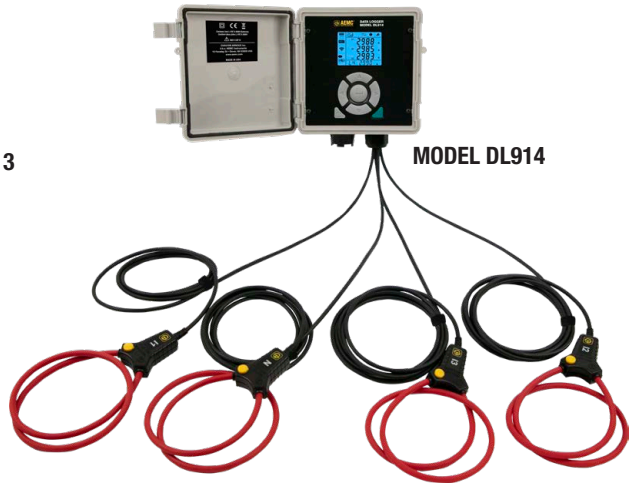
SEE WEBSITE FOR PRICING AND AVAILABILITY: **WWW.AEMC.COM**

DATA LOGGERS
THREE- AND FOUR-CHANNEL AC CURRENT
MODELS DL913 & DL914

IP 67 (with USB cap on and cover closed) | 600 V CAT IV | 1000 V CAT III

Waterproof three- and four-channel AC current data loggers with integrated flexible sensors for unattended load monitoring.

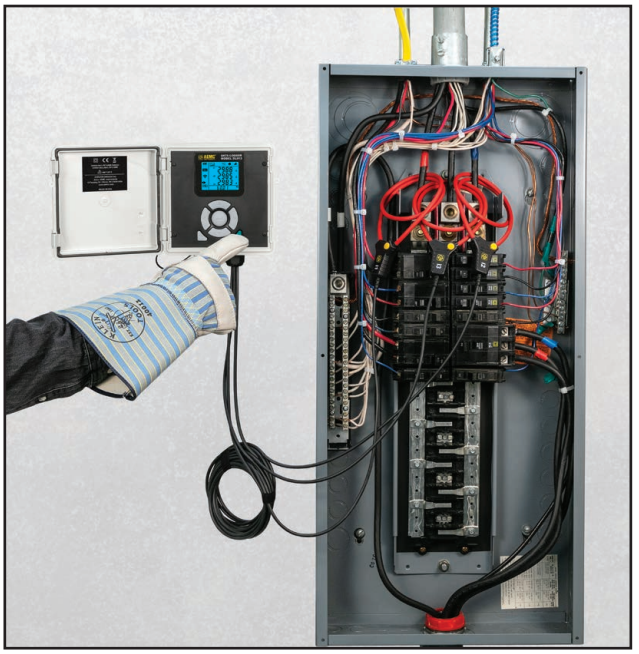

MODEL DL913


MODEL DL914

AUTOMATIC REPORT GENERATION
DataView®

FEATURES

- Three-channel *(Model DL913)* and four-channel *(Model DL914)* TRMS AC current data loggers with integrated 24-inch MiniFlex® flexible sensors for fast, non-intrusive installation on conductors and bundles up to 7.64 inches in diameter
- Current measurements from 500 mA to 3600 A across two selectable ranges (300/3000 A) for monitoring branch circuits through main feeders
- Built-in web server and Wi-Fi communications allow remote monitoring and configuration from any browser — eliminating the need to return to the installation site
- Extended recording mode extends battery life up to 30 days; USB power option enables continuous recording up to 365 days for long-term load studies
- Waterproof IP67 rated for installation in wet, outdoor, or harsh industrial environments
- LCD displays real-time measurements with front panel navigation; 8 GB internal memory stores data locally for later retrieval via USB or Wi-Fi



APPLICATIONS

- Single/split-phase and three-phase load monitoring
- Neutral and ground current monitoring *(Model DL914)*
- Intermittent problem detection
- Machine load monitoring and load profiling
- Fault current detection

PRODUCT INCLUDES

CAT. #2153.61 MODEL DL913
CAT. #2153.62 MODEL DL914

Includes small classic tool bag, 10 ft USB Type-A to Type-B cable, (4) stainless steel mounting brackets, (4) stainless steel M4 machine screws, USB power adapter, quick start guide, and USB drive with DataView® software and user manual.

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DATA LOGGERS
THREE- AND FOUR-CHANNEL AC CURRENT
MODELS DL913 & DL914

MODELS	DL913 & DL914				
ELECTRICAL					
Channels	3 *(Model DL913)* / 4 *(Model DL914)*				
Inputs	MiniFlex®				
Measurement Ranges	(300 / 3000) AAC				
Accuracy (50 / 60) Hz	300 A range		3000 A range		
	(0.50 to 99.99) A ± (1 %r + 10 cts)	(90.0 to 360.0) A ± (1 %r + 4 cts)	(4.00 to 99.99) A ± (1 %r + 10 cts)	(90.0 to 999.9) A ± (1 %r + 5 cts)	(0.900 to 3.600) kA ± (1 %r + 4 cts)
Resolution	0.01 A	0.1 A	0.01 A	0.1 A	1 A
Frequency	(45 to 65) Hz ± 0.1 Hz				
Storage Rate	Normal recording mode: Once per second Extended recording mode: Four per aggregation period				
Recording Length	Battery Power: 4 d with no missing samples *(normal recording mode)* 7 to 30 d depending on the selected aggregation period *(extended recording mode)* External Power: 365 d				
Memory	Internal 8 GB				
Communication	USB, Wi-Fi via router *(Ethernet)*, or Wi-Fi Direct				
Battery Charge Time	10 h maximum *(Wi-Fi off)*				
Power Supply	Internal: 4.2 A·h NiMH rechargeable battery pack External: USB connection				
Battery Life	Normal recording mode: 4 d Extended recording mode: 7 to 30 d[1]				
MECHANICAL					
Sensor / Cable Length	3 *(DL913)* or 4 *(DL914)* integral 24 in (610 mm) MiniFlex® probes with 6.5 ft (2 m) leads				
Max. Conductor	7.64 in (194 mm)				
Case	Flame retardant				
ENVIRONMENTAL					
Operating / Storage Temperature	(14 to 122) °F (-10 to 50) °C / (-40 to 158) °F (-40 to 70) °C				
Relative Humidity	Operation: up to 85 % RH Storage: up to 95 % RH				

Consult factory for NIST Calibration prices.

[1] Depending on the selected aggregation period. Reference user manual for in-depth information on the battery life, aggregation period, storage interval, and recording modes.

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

See pages 88 to 89 for Accessories/Replacements

CAT. #	DESCRIPTION
2153.61	Data Logger Model DL913 (3-channel, TRMS, MiniFlex® 300/3000 A, Wi-Fi, DataView® Software)
2153.62	Data Logger Model DL914 (4-channel, TRMS, MiniFlex® 300/3000 A, Wi-Fi, DataView® Software)

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DATA LOGGERS
SINGLE- AND TWO-CHANNEL AC CURRENT
MODELS L411 & L412

IP54 | 600 V CAT IV | 1000 V CAT III | True RMS | Wi-Fi | USB | CE | Double Insulated

Designed for accurate, long-term AC current monitoring in electrical systems.



MODEL L411 MODEL L412

DataView® DataViewSync™

FEATURES

- **Flexible:** accommodates tight spaces and large conductors with integrated MiniFlex® sensor *(Model L411)*
- **Versatile:** supports a wide range of current probes for multiple applications *(Model L412)*
- **Efficient:** captures single or dual-channel measurements simultaneously *(Model L412)*
- **Accurate:** True RMS measurement ensures reliable readings on complex loads
- **Informative:** real-time and maximum values displayed on backlit LCD, **1 s trends** available through control panel software
- **Convenient:** Wi-Fi and USB connectivity for easy setup, control, and data retrieval
- **Long-lasting:** continuous USB power eliminates battery life limitations for uninterrupted long-term monitoring
- **Flexible operation:** start and stop recordings from the instrument display, control panel, or remote user interface on a mobile device
- **Adaptable:** adjustable aggregation intervals for detailed or long-duration monitoring
- **Reliable:** stores up to 200 recording sessions with onboard memory

MODELS	L411	L412
ELECTRICAL		
Measurement Type	AC Current	
Channels	1	2
Measurement Range	(0.4 to 3600) A	10 mA to 25,000 A[1]
Sensor Type	Integrated MiniFlex®	Compatible current probes and sensors
Frequency Range	(45 to 65) Hz	
Accuracy	± (1% R + 5 cts) *(typical)*	± (1% R) *(sensor dependent)*
Resolution	Up to 10 mA	Sensor dependent
GENERAL		
Power Supply	(3) AA batteries or USB	
Battery Life	Up to 1 day with Wi-Fi enabled	
RECORDING		
Normal Mode	3 days	
Extended Mode	Up to 10 weeks *(15 min aggregation period)*	
DATA STORAGE & REPORTING		
Recording Sessions	Up to 200	
Storage	8 GB micro SD *(internal)*	
Aggregation Intervals	(1 to 60) min, 1 s trends	
Data Interface	USB, Wi-Fi and Web server	
Software	DataView® and DataViewSync®	
MECHANICAL & ENVIRONMENTAL		
Mounting	Magnetic	
IP Rating	IP54	
CAT Rating	600 V CAT IV, 1000 V CAT III	

Consult factory for NIST Calibration prices.

[1] Range depends on selected sensor

APPLICATIONS

- Load profiling and demand analysis
- Energy audits
- Preventive maintenance
- Troubleshooting intermittent current issues

PRODUCT INCLUDES

MODEL L411

Includes attached MiniFlex® sensor, USB to micro USB cable, US wall plug to USB adapter, (3) AA alkaline batteries, quick start guide, USB drive with DataView® software and user manual.

MODEL L412

Includes USB to micro USB cable, US wall plug to USB adapter, (3) AA alkaline batteries, quick start guide, USB drive with DataView® software and user manual.

CAT. #	DESCRIPTION
2153.52	Data Logger Model L411 (1-CH, TRMS, with LCD, 3000 Aac, DataView® software)
2153.53	Data Logger Model L412 (2-CH, TRMS, with LCD, Current, DataView® software)

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DATA LOGGERS
AC/DC VOLTAGE LOGGER
MODEL L461

IP 54 | 1000 V CAT IV | 1500 VDC CAT III

Designed for accurate voltage monitoring in electrical distribution and solar PV systems.



DataView® DataViewSync™

FEATURES

- **Dual-purpose:** measures both AC and DC voltage for modern electrical systems
- **Application-ready:** ideal for solar PV systems and electrical distribution monitoring
- **Accurate:** True RMS measurement ensures dependable voltage readings
- **Informative:** real-time and maximum values displayed on backlit LCD, **1 s trends** available through control panel software
- **Wide-range:** from (10 to 1200) VAC and (10 to 1700) VDC
- **Convenient:** Wi-Fi and USB connectivity for remote access and configuration
- **Efficient:** extended recording mode supports long-term voltage studies
- **Flexible operation:** start and stop recordings from the instrument display, control panel, or remote user interface on a mobile device
- **Long-lasting:** continuous USB power eliminates battery life limitations for uninterrupted long-term monitoring
- **Flexible:** configurable aggregation periods to match application needs
- **Dependable:** onboard memory stores up to 200 recording sessions

MODELS	L461
ELECTRICAL	
Measurement Type	AC/DC Voltage
Channels	1
AC Voltage Range	(10 to 1200) V
DC Voltage Range	(10 to 1700) V
Frequency Range	(45 to 65) Hz
Accuracy	± (1% R + 5 cts typical)
GENERAL	
Power Supply	(3) AA batteries or USB
Battery Life	Up to 1 day with Wi-Fi enabled
RECORDING	
Normal Mode	3 days
Extended Mode	Up to 10 weeks *(15 min aggregation period)*
DATA STORAGE & REPORTING	
Recording Sessions	Up to 200
Storage	8 GB micro SD *(Internal)*
Aggregation Intervals	(1 to 60) min, 1 s trends
Data Interface	USB, Wi-Fi and Web server
Software	DataView® and DataViewSync®
MECHANICAL & ENVIRONMENTAL	
Mounting	Magnetic
IP Rating	IP54
CAT Rating	1000 V CAT IV, 1500 VDC CAT III

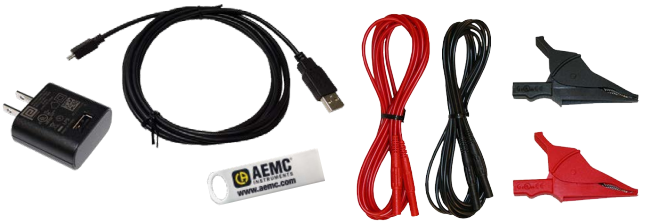
Consult factory for NIST Calibration prices.

APPLICATIONS

- Distribution and service entrance voltage monitoring
- Solar PV string and inverter output voltage trending
- Long-term supply voltage quality studies
- Intermittent voltage sag and swell detection

PRODUCT INCLUDES

Includes USB to micro USB cable, US wall plug to USB adapter, Set of (2) 10 ft (3 m) color-coded ST/ST leads, (2) color-coded alligator clips (red/black), (3) AA alkaline batteries, quick start guide, USB drive with DataView® software and user manual.



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

See pages 88 to 89 for Accessories/Replacements

CAT. #	DESCRIPTION
2153.54	Data Logger Model L461 (1-CH, TRMS, with LCD, 1200 VAC/1700 VDC, DataView® software, voltage input for solar panels)

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IP 40 | 50 V CAT III

MODELS SL11 TO SL13 & SL20

Small DC Voltage and AC current Simple Logger® can be ready to go in minutes with just a few parameters to configure.



SL11



SL12



SL13



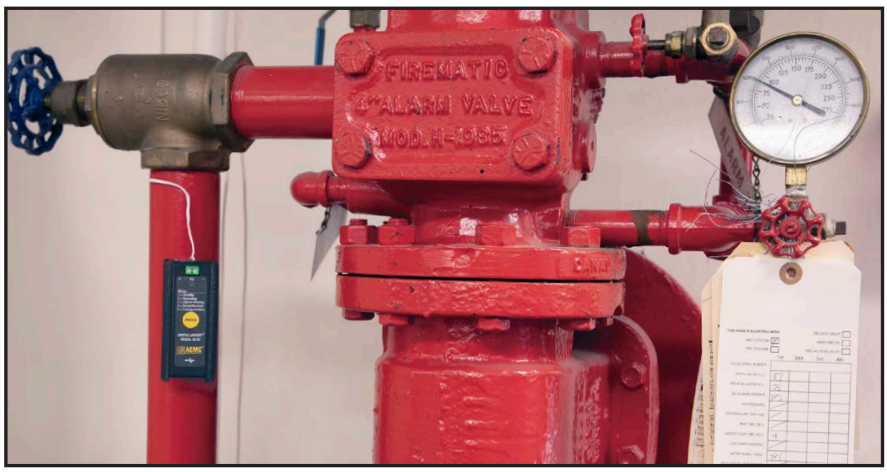
SL20

MODELS	SL11	SL12	SL13	SL20
Measurement Type	DC Voltage			DC Current
Range	±1 VDC	±10 VDC	± 50 VDC	± 20 mA
Resolution	1 mV	10 mV	50 mV	0.02 mA
Accuracy(1)	± (0.5 % Rdg + 5 mV)	± (0.5 % Rdg + 50 mV)	± (0.5 % Rdg + 250 mV)	± (0.5 % Rdg + 0.1 mA)
Max Input	60 VDC			25 mADC
Input Impedance	800 kΩ			49 Ω
Memory	Up to 4 million measurements			
Communication	Micro-B USB			
Power Supply	(2) AA batteries or USB			
Safety Rating	50 V CAT III			
Ingress Protection	IP40			
CAT. #	2156.11	2156.12	2156.13	2156.20

Consult factory for NIST Calibration prices.

(1) Accuracy is specified with the 10-point filter selected to reduce noise.

AUTOMATIC REPORT GENERATION



FEATURES

- Simple one button operation
- Quick two wire input connection
- User configurable scaling, units of measure and recording length
- Stores up to 4 million measurements
- Data analysis software included
- Software provides real-time trend graph display, data download, analysis and report generation
- Micro-B USB cable included

See pages 88 to 89 for Accessories/Replacements

Technical Assistance (800) 343-1391
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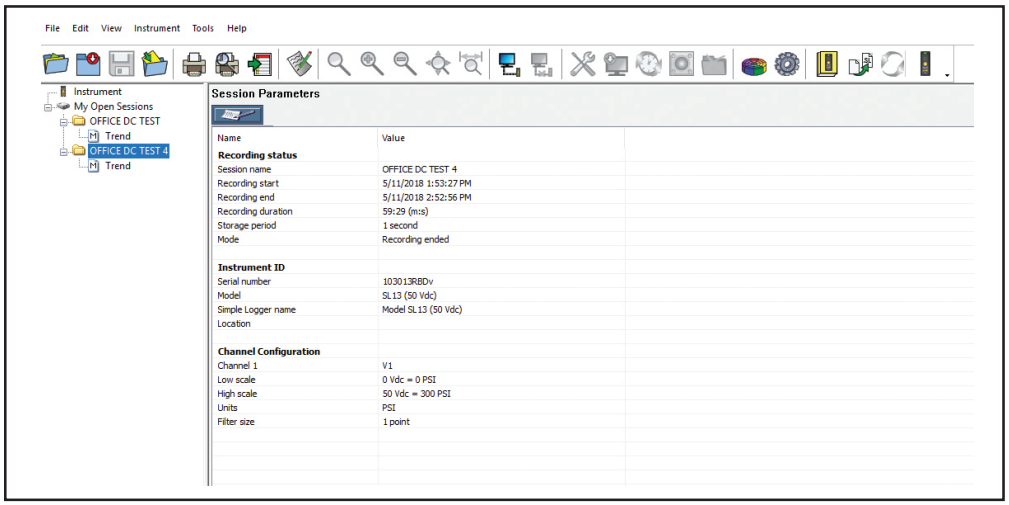
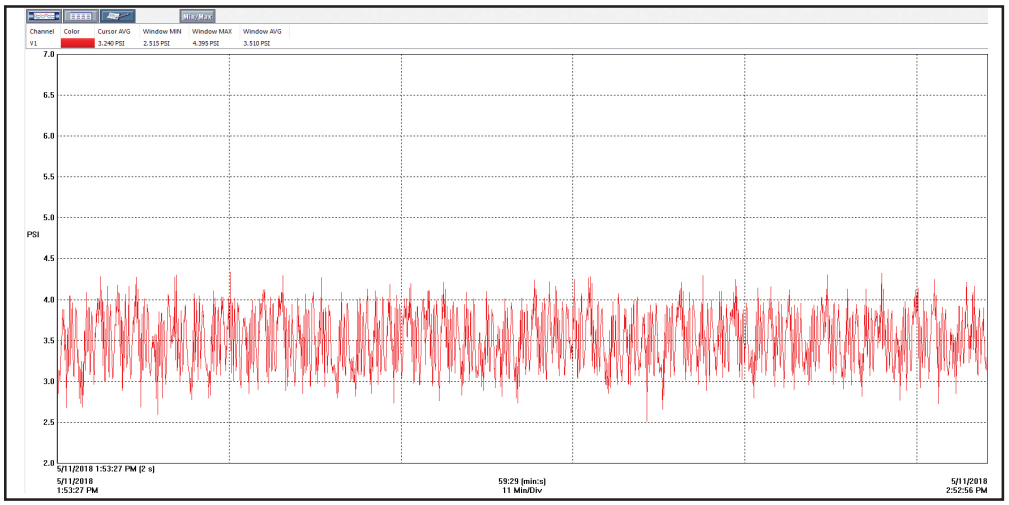
SIMPLE LOGGER® CONTROL PANEL

The Simple Logger® Control Panel allows you to configure how data measured by these instruments is recorded and displayed. The available settings depend on which model is connected to the computer. The following table shows which configuration options are available for each model.

FEATURE	SL11	SL12	SL13	SL20
Set up recording	✓	✓	✓	✓
Define units	✓	✓	✓	✓
Set instrument clock	✓	✓	✓	✓
Erase instrument memory	✓	✓	✓	✓
Scaling	✓	✓	✓	✓
Filtering	✓	✓	✓	✓



Current configuration of a logger



Typical real-time trend graph

CAT. #	DESCRIPTION
2156.11	Simple Logger® Model SL11 (Voltage, 1 VDC)
2156.12	Simple Logger® Model SL12 (Voltage, 10 VDC)
2156.13	Simple Logger® Model SL13 (Voltage, 50 VDC)
2156.20	Simple Logger® Model SL20 (Current, 4 to 20 mADC)

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	DL913	DL914	L411	L412	L461
	2117.73	Pouch – Replacement Dimensions: (8.5 × 6.75 × 2.7) in			•	•	•
	2118.09	Case – General Carrying Case Dimensions: (13 × 9.5 × 3) in			•	•	•
	2118.49	Adapter – 110 V Outlet Adapter w/ 4 mm Banana Plugs					•
	2119.02	Soft Carrying Pouch Dimensions: (7.75 × 9.25 × 2.75) in			•	•	•
	2133.72	Small Classic Tool Bag for field use 12 Exterior and 14 Interior pockets Dimensions: (13.0 × 9.8 × 9.5) in	•	•			
	2136.80	Cable – 10 ft USB Type-A to Type-B	•	•			
	2138.66	Cable – 6 ft USB Type-A to Type-B micro			•	•	•
	2140.32	AC Current Probe MN93-BK				•	
	2140.33	AC Current Probe SR193-BK				•	
	2140.36	AC Current Probe MN193-BK (5 A & 100 AAC)				•	
	2140.34	AmpFlex® Sensor 193-24-BK				•	
	2140.35	AmpFlex® Sensor 193-36-BK				•	
	2140.48	MiniFlex® MA 193-10-BK				•	
	2140.50	MiniFlex® MA 193-14-BK				•	
	2140.80	MiniFlex® MA 193-24-BK				•	

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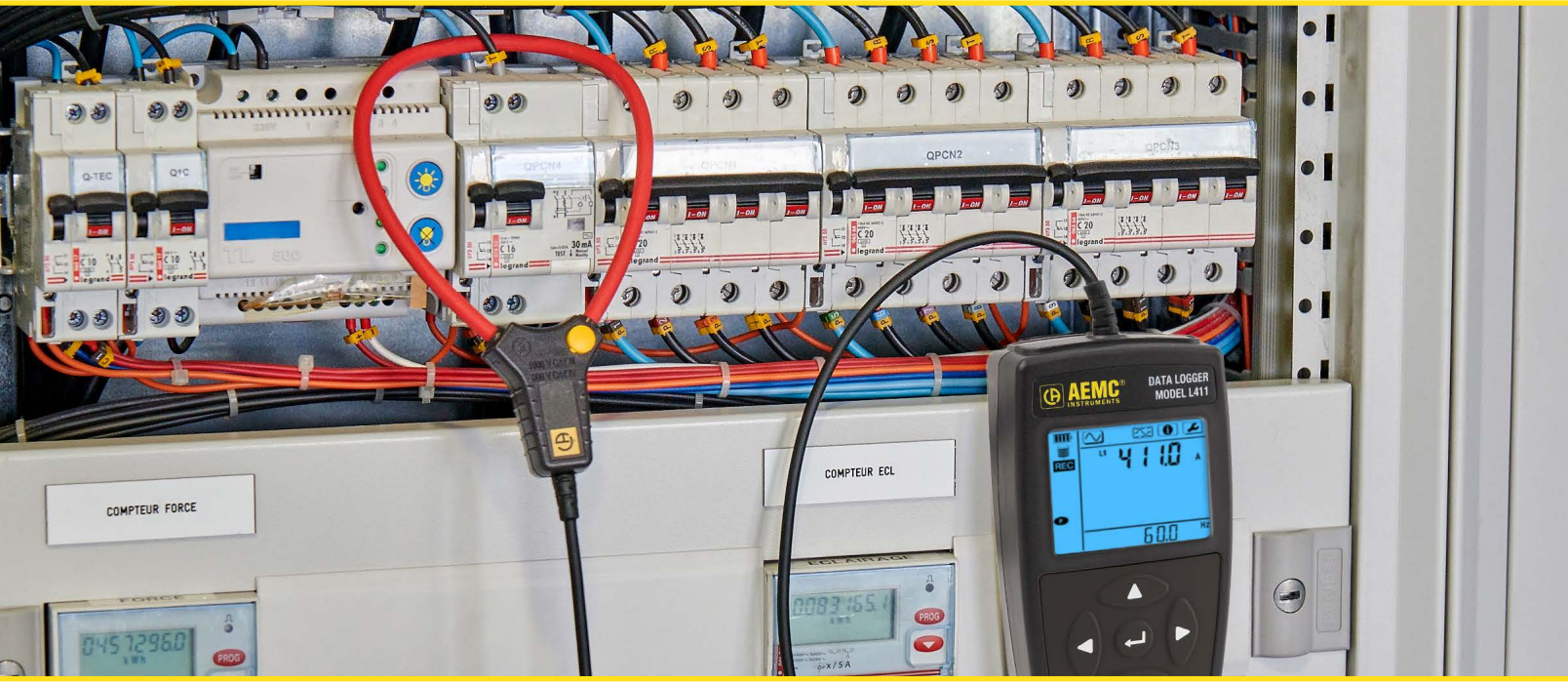
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	DL913	DL914	L411	L412	L461
	2140.81	AC Current Probe MN94				•	
	2153.78	Adapter – Replacement US Wall Plug to USB	•	•	•	•	•
	2153.79	Cable – 6 ft USB Type-A to Type-B *(Waterproof)*	•	•			
	2153.80	Battery – Replacement 4.2 A·h NiMH Rechargeable	•	•			
	5000.44	Multifix *(universal mounting system)*			•	•	•
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)					•
	5100.00	Clip– Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)					•
	5100.29	Set of (2) 10 ft (3 m) color-coded ST/ST leads (red/black)					•



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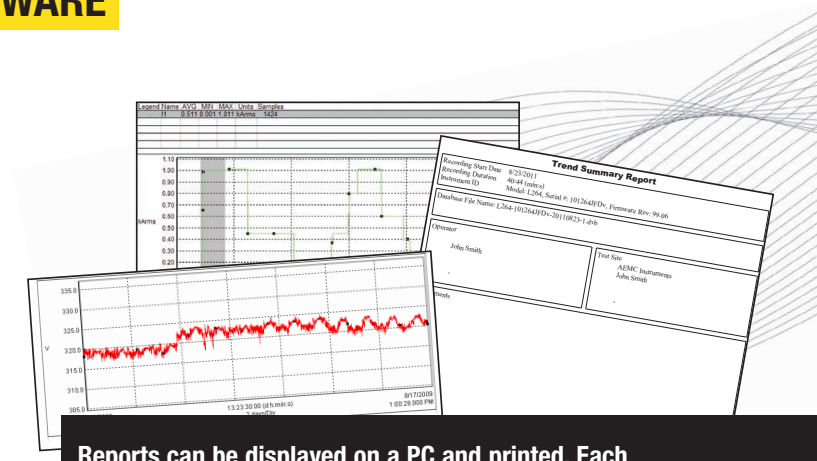
DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

AUTOMATIC REPORT GENERATION

AEMC INSTRUMENTS www.aemc.com

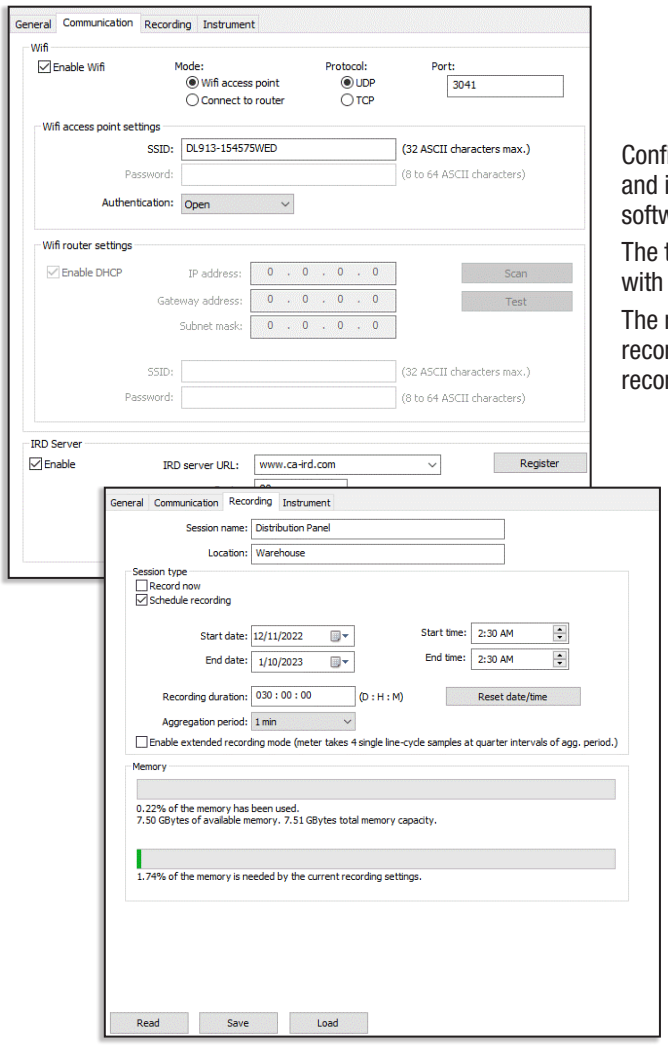
DataView® software, user manual and quick start guide are included in the USB Drive



Reports can be displayed on a PC and printed. Each report includes all test results in a tabular and graphic format, as well as operator and test site information. Comments typed by the operator will also be included.

Configure all functions:

- Display and analyze real-time data on your PC
- Configure all data logger functions and parameters from your PC including sample rate, communication, recording length, channel configuration and more
- Create and store a library of configurations that can be uploaded to the logger as needed
- Pan and zoom through sections of the graph to analyze the data
- Display trend graphs and text summaries
- Print reports using standard or custom templates
- Free software upgrades are available on our website ***www.aemc.com***

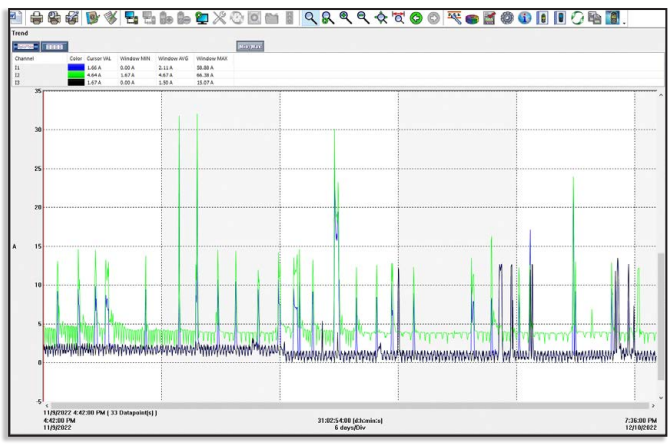


Configuring the data logger's general communication, recording, and instrument options is simple with the DataView® control panel software.

The top left image represents the communication configuration tab with Wi-Fi enabled.

The recording tab provides sample and storage rate selections, recording length and schedule, session type, and the extended recording mode option.

Create, view, edit and store reports from the instrument's recorded data with the included DataView® software



One month split-phase trend monitoring.

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

DIGITAL MULTIMETERS



Why choose AEMC® Instruments Digital Multimeters?

Our digital multimeters cover the full range of electrical troubleshooting, from compact general-purpose meters to high-resolution graphical hand-held models. Every meter in this section measures True RMS, is safety-rated for field work, and selected for a specific balance of resolution, measurement depth, and operator workflow — whether that is fast verification on a branch circuit, commissioning a motor control center, or recording and trending measurements.

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

DIGITAL MULTIMETERS
5000 SERIES
MODELS 5212 & 5217

Compact TRMS hand-held meters for everyday electrical service and HVAC work. Includes a magnetic mount and stand for two-handed operation.


MODEL 5212


MODEL 5217

MODELS	5212	5217
ELECTRICAL		
Display Count	4000 count	6000 count
Measurement Type	True RMS	
VDC Range / Typical Accuracy	600 V, ± 0.2 % ± 2 cts	1000 V, ± 0.2 % ± 2 cts
VAC Range / Typical Accuracy	600 V, ± 0.5 % ± 4 cts	750 V, ± 0.5 % ± 4 cts
Current Measurement	10 AAC/DC	6000 µAAC/DC 10 AAC/DC
Resistance	40 MΩ	60 MΩ
Capacitance	100 mF	
Frequency	N/A	1 kHz
Temperature	N/A	K-type TC
AC Bandwidth *(typical)*	(50 to 400) Hz	50 Hz to 1 kHz
VLowZ	Yes	
Non-contact Voltage Detection	Yes	
DISPLAY / MEMORY / COMMUNICATION		
Display Type	LCD, backlit	
Memory	N/A	
Communication	N/A	
POWER & MECHANICAL		
Power	(2) AA batteries	
Battery Life (typical)	~ 500 h	
SAFETY & INGRESS		
Safety Rating	600 V CAT III	
Ingress	IP54	

Consult factory for NIST Calibration prices.

FEATURES

- **True RMS Measurement** — True RMS for accurate readings on distorted and non-sinusoidal waveforms
- **Display Count** — 4000-count *(Model 5212)* / 6000-count *(Model 5217)*
- **High Sensitivity** — 0.01 mV resolution on low-level DC for control and instrumentation work *(Model 5212)*
- **Core Functions** — VAC, VDC, AAC, ADC to 10 A, resistance, continuity, diode, and capacitance
- **Temperature** — K-type thermocouple input via supplied adapter *(Model 5217 only)*
- **Frequency & Duty Cycle** — Frequency and duty-cycle measurement on VFD outputs and control signals *(Model 5217 only)*
- **VLowZ** — Low-impedance voltage mode eliminates ghost voltages on de-energized conductors
- **Non-Contact Voltage** — NCV indicator for quick live-circuit verification before contact measurement
- **IP54 Ingress Protection** — Protected against dust ingress and water splashes for use in field conditions
- **Drop Resistant** — Tested to withstand a 1 m (3.28 ft) drop
- **Field-Ready** — Backlit display, built-in flashlight, and multi-position magnetic stand for one-handed use
- **Safety Rating** — 600 V CAT III
- **Long Runtime** — Two AA batteries with auto-sleep; up to 500 h typical runtime

APPLICATIONS

- Verify branch-circuit voltage, continuity, and capacitance during routine electrical service
- Troubleshoot HVAC systems using the thermocouple input alongside standard electrical measurements *(Model 5217)*
- Commission VFD-driven motor circuits by reading frequency, duty cycle, and output voltage *(Model 5217)*
- Identify ghost voltages on de-energized conductors using VLowZ before beginning work

PRODUCT INCLUDES

CAT. #2154.07 MODEL 5212
CAT. #2154.09 MODEL 5217 ***(INCLUDES THERMOCOUPLE ADAPTER)***
Soft carrying pouch, set of (2) color-coded *(red/black)* leads, (2) AA batteries and user manual.

See pages 97 to 98 for Accessories/Replacements

CAT. #	DESCRIPTION
2154.07	DMM Model 5212 (TRMS, 4000-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)

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DIGITAL MULTIMETERS
5000 SERIES
MODELS 5231 & 5233

IP 54 | 1000 V CAT III | TRMS | CE | ⧈

TRMS hand-helds with 61-segment bargraph, designed to pair with current clamp accessories.



MODEL 5231



MODEL 5233

WARRANTY 3 YEARS WARRANTY

MODELS	5231	5233
ELECTRICAL		
Display Count	6000 count	
Measurement Type	True RMS, bargraph	
VDC Range / Typical Accuracy	1000 V, ± 0.2 % ± 2 cts	
VAC Range / Typical Accuracy	1000 V, ± 2.0 % ± 3 cts	
Current Measurement	600 A via clamp	10 AAC/DC
Resistance	60 MΩ	
Capacitance	N/A	1000 µF
Frequency	N/A	3 kHz
Temperature	N/A	K-type TC
AC Bandwidth *(typical)*	40 Hz to 1 kHz	
VLowZ	Yes	
Non-contact Voltage Detection	Yes	
DISPLAY / MEMORY / COMMUNICATION		
Display Type	LCD, backlit, bargraph	
Memory	N/A	
Communication	N/A	
POWER & MECHANICAL		
Power	(1) 9 V battery	
Battery Life (typical)	> 100 h	
SAFETY & INGRESS		
Safety Rating	1000 V CAT III / 600 V CAT IV	
Ingress	IP54	

Consult factory for NIST Calibration prices.

FEATURES

- **6000-Count TRMS with Bargraph** — TRMS response plus 61-segment analog bargraph for trending unstable readings
- **Core Functions** — VAC, VDC to 1000 V, resistance, continuity, and diode test
- **Current Clamp Compatible** — Works with AC/DC current clamp accessories up to 600 A for current measurement without breaking the circuit
- **Direct Current Input** — Built-in 10 AAC/DC input for direct in-line current measurement *(Model 5233)*
- **Capacitance** — Measures capacitance up to 1000 µF for motor-run and power-factor correction caps *(Model 5233)*
- **Frequency & Duty Cycle** — Frequency measurement to 3 kHz and duty-cycle measurement for VFD and control-signal work *(Model 5233)*
- **Temperature** — K-type thermocouple input for transformer, motor, and HVAC thermal checks *(Model 5233)*
- **VLowZ** — Low-impedance voltage range burdens the circuit to eliminate ghost voltages on de-energized conductors
- **NCV** — Non-contact voltage detection for first-look live-circuit verification
- **MIN / MAX** — Captures transient behavior on starts, stops, and load changes; MAX–MIN on Model 5233
- **IP54 Ingress Protection** — Protected against dust ingress and water splashes for use in field conditions
- **Drop Resistant** — Tested to withstand a 1 m (3.28 ft) drop
- **Safety Rating** — 1000 V CAT III / 600 V CAT IV for service-entrance and feeder work
- **Long Runtime** — Single 9 V battery with > 100 h typical runtime

See pages 97 to 98 for Accessories/Replacements

APPLICATIONS

- Measure motor running current on MCC buckets and branch circuits using a clamp accessory — no conductor break
- Diagnose motor run capacitors, winding temperature, and starting current from a single meter *(Model 5233)*
- Read frequency and duty cycle on VFD outputs during commissioning and troubleshooting *(Model 5233)*
- Verify service-entrance and feeder voltages with VLowZ and NCV during lockout/tagout

PRODUCT INCLUDES

CAT. #2125.64 MODEL 5231
Soft carrying case, set of (2) 5 ft color-coded leads *(red/black)* with Needle Tip (1000 V CAT IV 15 A), and user manual.

CAT. #2125.65 MODEL 5233
Soft carrying case, set of (2) 5 ft color-coded leads *(red/black)*, adapter - banana *(male)* to mini *(female)* with K-type thermocouple, and user manual.

CAT. #	DESCRIPTION
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)

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DIGITAL MULTIMETERS
3000 SERIES
MODELS MTX 3290 & 3291

IP67 | 1000 V CAT III | 600 V CAT IV | 600 V CAT III | 300 V CAT IV | TRMS | CE | Double Insulation

MTX 3290 only

IP67 field-rugged TRMS handhelds with direct current measurement and clamp compatibility for harsh environments.



MODEL MTX 3290



MODEL MTX 3291



MODELS	MTX 3290	MTX 3291
ELECTRICAL		
Display Count	6000 count	60,000 count
Measurement Type	True RMS	
VDC Range / Typical Accuracy	600 V, ± 0.3 %	1000 V, ± 0.5 %
VAC Range / Typical Accuracy	600 V, ± 0.3 %	1000 V, ± 0.5 %
Current Measurement	600 µAAC / 2 µADC to 20 AAC/DC clamp compatible	600 µAAC / 2 µADC to 20 AAC/DC clamp compatible
Resistance	60 MΩ	
Capacitance	60 mF	
Frequency	600 kHz	
Temperature	Pt100 / Pt1000	
AC Bandwidth *(typical)*	40 Hz to 20 kHz	40 Hz to 100 kHz
VLowZ	Yes	
Non-contact Voltage Detection	N/A	
DISPLAY / MEMORY / COMMUNICATION		
Display Type	LCD, backlit	
Memory	N/A	PC via USB
Communication	N/A	Optical USB
POWER & MECHANICAL		
Power	(4) AA batteries	
Battery Life (typical)	~ 300 h	
SAFETY & INGRESS		
Safety Rating	600 V CAT III / 300 V CAT IV	1000 V CAT III / 600 V CAT IV
Ingress	IP67	

Consult factory for NIST Calibration prices.

FEATURES

- **TRMS Measurement** — TRMS response across VAC, AAC, capacitance, frequency, and duty cycle
- **Display Count** — 6000-count *(Model MTX 3290)* / 60,000-count *(MTX 3291)* for higher-resolution work
- **IP67 Sealed Housing** — Fully sealed against dust and temporary water immersion for outdoor and wet-site use
- **Core Functions** — VAC/DC, AAC/DC, resistance, continuity, diode, capacitance, and frequency
- **Direct Current Measurement** — Built-in current inputs from 600 µAAC/2 µADC to 20 Aac/dc, plus clamp probe compatibility
- **Temperature** — Pt100 / Pt1000 RTD input for precision temperature measurement
- **VLowZ** — Low-impedance voltage mode suppresses phantom voltages on de-energized circuits
- **Wide AC Bandwidth** — Frequency response to 20 kHz *(Model MTX 3290)* / 100 kHz *(Model MTX 3291)* for drive output and power-electronics work
- **Communication** — Optical USB data transfer for trending and reporting *(MTX 3291 only)*
- **Drop Resistant** — Tested to withstand a 1 m (3.28 ft) drop
- **Safety Rating**
  Model MTX3290: 600 V CAT III & 300 V CAT IV
  Model MTX3291: 1000 V CAT III & 600 V CAT IV
- **Power** — Four AA batteries for long runtime in the field

APPLICATIONS

- Perform electrical troubleshooting in wet, dusty, and outdoor sites where sealed housings are required
- Measure current directly from 600 µA to 20 A or extend range with clamp probe accessories *(Model MTX 3291)*
- Calibrate and verify transducers, sensors, and metering equipment at 60,000-count resolution *(Model MTX 3291)*
- Maintain substation and outdoor switchgear where the meter must tolerate weather exposure

See pages 97 to 98 for Accessories/Replacements

CAT. #	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)

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IP 67 | 1000 V CAT III | 600 V CAT IV | TRMS | CE

MODELS MTX 3293B

Color-display TRMS handhelds for measurement, trending, and recording.



MODEL MTX 3293B

WARRANTY 3 YEARS WARRANTY

FEATURES

- **100,000-Count Color Graphical Display** — 320 × 240 pixel color LCD shows live values, bargraph, and trend graph in one screen
- **Onboard Memory** — Stores 30,000 measurements for later analysis
- **Bench-Class Accuracy** — ± 0.02 % VDC typical
- **Full Measurement Suite** — VAC/DC, AAC/DC to 10 A, resistance, capacitance, frequency to 5 MHz, and temperature (Pt100 / 1000 and K/J-type thermocouple)
- **Wide TRMS Bandwidth** — 200 kHz for drive output and power-electronics work
- **VLowZ** — Low-impedance voltage mode suppresses phantom voltages on de-energized circuits
- **Diode Testing** — Standard diode test plus Zener diode and LED test mode up to 26 V for component-level troubleshooting
- **Advanced Measurement Modes** — dBm/dB for signal-level work, resistive power (W ref), V×A power, pulse counting, and pulse-width measurement
- **IP67 Sealed Housing** — Field-rated against dust and temporary water immersion
- **Communication** — Isolated optical USB link for data transfer and PC-based remote control
- **Drop Resistant** — Tested to withstand a 1 m (3.28 ft) drop
- **Safety Rating** — 1000 V CAT III & 600 V CAT IV
- **Rechargeable Power** — Ships with rechargeable AA cells and USB charger

MODELS	MTX 3293B
ELECTRICAL	
Display Count	100,000 count
Measurement Type	True RMS
VDC Range / Typical Accuracy	1000 V, ± 0.02 %
VAC Range / Typical Accuracy	1000 V, ± 0.3 %
Current Measurement	1 mA to 20 AAC/DC
Resistance	100 MΩ
Capacitance	10 mF
Frequency	5 MHz
Temperature	Pt100/1000 + K/J TC
AC Bandwidth *(typical)*	40 Hz to 200 kHz
VLowZ	Yes
Non-contact Voltage Detection	N/A
DISPLAY / MEMORY / COMMUNICATION	
Display Type	Color graphical, 320 × 240
Memory	30,000 measurements
Communication	Optical USB
POWER & MECHANICAL	
Power	(4) AA rechargeable
Battery Life (typical)	~ 30 h
SAFETY & INGRESS	
Safety Rating	1000 V CAT III / 600 V CAT IV
Ingress	IP67

Consult factory for NIST Calibration prices.

APPLICATIONS

- Trend voltage, current, and temperature during commissioning of motors, drives, and transformers
- Capture intermittent events on control and power circuits using deep onboard memory
- Measure high-frequency signals to 5 MHz on control and communication circuits
- Test Zener diodes and LEDs in-circuit with the extended 26 V diode test mode
- Produce documented acceptance and maintenance records with timestamped measurement data

See pages 97 to 98 for Accessories/Replacements

CAT. #	DESCRIPTION
2154.04	DMM Model MTX 3293B (ASYC IV, TRMS, 100,000-cts, USB, Color Graphical Display)

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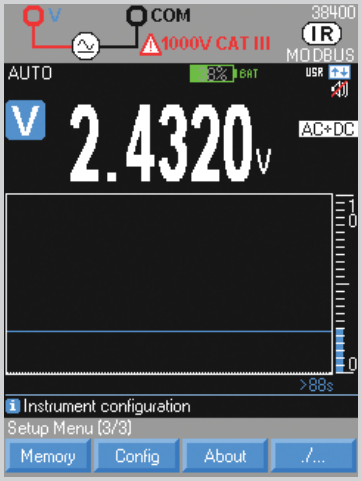
FUNCTIONAL DISPLAYS

The TRMS measurements of AC voltages and currents are also accurate on non-linear signals.

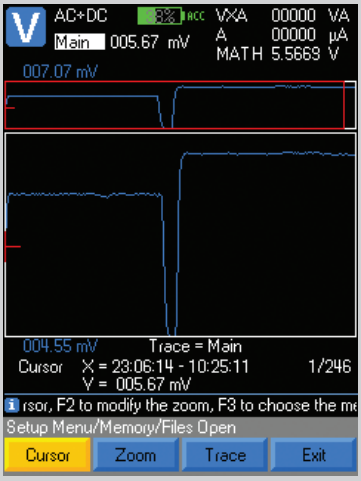
MTX 3293B COLOR MATRIX GRAPHICAL SCREENS



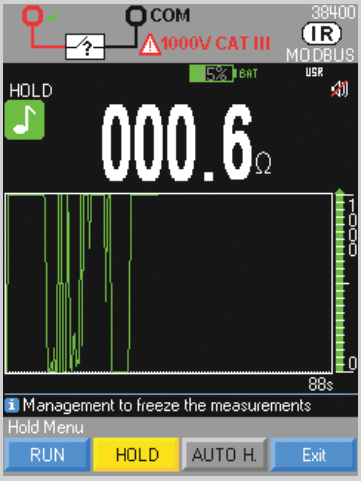
SETUP MENU
Configuration of measurements



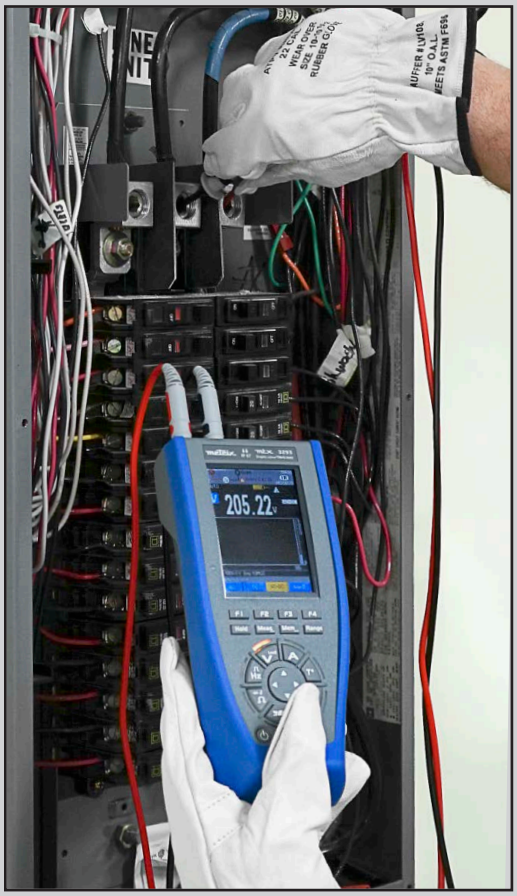
MEASUREMENT
Configuration of the measurement parameters



MEM
Storing of the measurements recording mode



HOLD
Management and hold of the display



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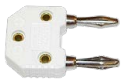
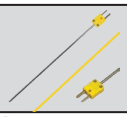
DIGITAL MULTIMETERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	5212	5217	5231	5233	MTX 3290	MTX 3291	MTX 3293B
	2117.73	Pouch – Replacement Dimensions: (7 × 8.5 × 2) in	•	•	•	•			
	2118.09	Case – General Carrying Case Dimensions: (13 × 9.5 × 3) in	•	•	•	•	•	•	•
	2118.62	Fuse – Set of (10), 10 A, 600 V, (6 × 32) mm (0.25 × 1.25) in				•	•		
	2119.02	Soft Carrying Pouch Dimensions: (7.75 × 9.25 × 2.75) in	•	•	•	•	•	•	•
	2125.83	Adapter – Banana (Male) to Mini (Female) for K Thermocouple		•		•			•
	2126.46	Thermocouple – Needle (7.5 × 0.5) in K-Type (-58 to 1292) °F		•		•			
	2126.47	Thermocouple – Flexible (1 m) K-Type (-58 to 480) °F		•		•			•
	2135.41	Optical USB Cable – Replacement					•	•	•
	2139.71	Thermocouple – K-thermocouple w/ 4 mm Integrated Adapter	•	•		•			•
	2139.74	Lead – Set of (2), 6.5 ft color-coded red/ black Fused Leads (.63 A) w/ 4 mm Plug	•	•	•	•	•	•	•
	2152.28	Lead – Set of (2), 6.5 ft. color-coded (red/black) Fused Leads (0.63 A); Two screw-on Alligator Clips, two screw-on Test Probes, Set of (5), 0.63 A Fuses (UL)	•	•	•	•	•	•	•
	2154.74	Lead – Replacement Set of (2), Needle Tip Color-coded (red/black) w/ 4 mm Right-angle Plug {600 V CAT IV w/ shield on Needle Tip, 1000 V CAT II w/o Shield}	•	•	•	•	•	•	•
	2154.75	Fuse – Set of (3), 10 A, 1000 V (Fast Blow), 30 kA, (10 × 38) mm	•	•					
	2154.76	Fuse – Set of (3), 0.63 A, 1000 V (Fast Blow), 10 kA, (6.3 × 32) mm	•	•					

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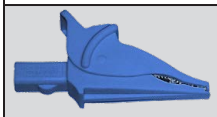
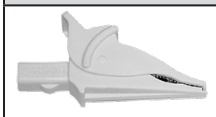
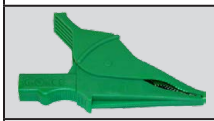
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	5212	5217	5231	5233	MTX 3290	MTX 3291	MTX 3293B
	2970.92	Fuse – Set of (5), 1100 V, 11 A, (10 × 38) mm, 20 kA							•
	5000.30	Probe – Black test probe (Rated 1000 V CAT IV, 15 A, UL)	•	•	•	•	•	•	•
	5000.44	MultiFix (universal mounting system)	•	•	•	•	•	•	•
	5000.94	Lead – Set of (2), 5 ft silicone color-coded (red/black) with 4 mm straight/right banana plugs (Rated 1000 V, CAT IV, UL)	•	•		•	•	•	•
	5000.98	Probe – Red test probe (Rated 1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•
	5000.99	Clip – Safety Alligator - Black (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•
	5100.00	Clip – Safety Alligator - Red (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•
	5100.04	Clip – Safety Alligator - Blue (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•
	5100.05	Clip – Safety Alligator - White (1000 V CAT IV, 15 A, UL)	•	•	•	•	•	•	•
	5100.06	Clip – Safety Alligator - Green (1000 V CAT IV, 15 A, UL)	•	•	•	•	•	•	•
	5100.07	Lead – Set of (2), 5 ft color-coded (red/black) PVC w/ 4 mm ST/ST plugs	•	•	•	•	•	•	•

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ELECTRICAL TEST TOOLS



Why choose AEMC® Instruments Electrical Test Tools?

Our electrical test tools deliver fast, dependable answers when it matters most. From verifying voltage presence to confirming phase rotation and measuring speed, each instrument is built for a single job —helping technicians work safer, faster, and with greater confidence in the field.

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

ELECTRICAL TEST TOOLS
NON-CONTACT HIGH VOLTAGE DETECTOR
MODEL 275HVD

Non-contact confirmation of voltage presence from distribution to transmission class.



MODEL	275HVD
ELECTRICAL	
Detection Type	Non-contact AC voltage presence
Detection Ranges	240 V, 2 kV, 6 kV, 11 kV, 22 kV, 33 kV, 132 kV, 275 kV
Detection Frequency	(40 to 70) Hz
Indication	Audible 75 dB at 1 m (3.3 ft) and visual alert
POWER & MECHANICAL	
Included Mount	Shotgun adapter for standard hot stick
Power	(3) C-cell batteries
Weight	1.30 lb (0.59 kg)
SAFETY & INGRESS	
Ingress	IP65

Consult factory for NIST Calibration prices.

FEATURES

- **Wide Detection Range** — Eight selectable ranges from 240 V through 275 kV cover secondary distribution up to transmission-class conductors
- **Audible and Visual Alert** — 75 dB audible tone and visual indication at 3.3 ft when energized voltage is detected *(range dependent)*
- **Hot-Stick Compatible** — Supplied shotgun adapter attaches to standard hot sticks for safe approach distance
- **Detection Bandwidth** — (40 to 70) Hz covers 50/60 Hz power systems
- **Field-Rated** — IP65 sealed housing for outdoor and weather-exposed work
- **Power** — (3) C-cell batteries; built-in self-test confirms operation before each use



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

APPLICATIONS

- Confirm presence of voltage on overhead distribution lines before grounding or maintenance work
- Verify de-energization on substation bus and switchgear during clearance procedures
- Perform pre-shift self-tests on utility line crews' hot-stick-mounted detectors

PRODUCT INCLUDES

Hard carrying case, universal spline for hot stick connection, (3) C cell batteries, shotgun adapter and a user manual.

Note: Hot stick not supplied



See pages 105 for Accessories/Replacements

CAT. #	DESCRIPTION
2131.12	Non-Contact High Voltage Detector Model 275HVD (240 V to 275 kV, Manual self-test)

Technical Assistance (800) 343-1391
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MODELS 6610, 6611 & 6612

IP 40 | 600 V CAT IV | 1000 V CAT III | CE | ⧈

Verify phase sequence and motor rotation before energizing three-phase equipment.



6610



6611 6612

MODELS	6610	6611	6612
ELECTRICAL			
Phase Connection	Non-contact capacitive clips[1]	Contact leads with alligator clips	Contact leads with alligator clips
Voltage Range	(75 to 1000) VAC	Motor Rotation: (1 to 440) VAC Phase Detection: (120 to 400) VAC	(40 to 850) VAC phase-to-phase
Frequency Range	(45 to 65) Hz	(2 to 400) Hz	(15 to 400) Hz
Motor Rotation	–	Magnetic-field sensor on instrument face	–
POWER & MECHANICAL			
Power	(1) 9 V alkaline battery	(1) 9 V alkaline battery	Line-powered, no battery
Weight	13.4 oz (380 g)	13.4 oz (380 g)	
SAFETY & INGRESS			
Safety Rating	1000 V CAT III / 600 V CAT IV		
Ingress	–	IP40	

Consult factory for NIST Calibration prices.

[1] Non-metallic contact.

FEATURES

- **Non-Contact Phase Detection** — Capacitive pickup clips read phase sequence on insulated conductors without bare-metal contact *(Model 6610 only)*
- **Contact Phase Detection** — Direct-contact leads with alligator clips for reliable phase verification on panels, MCCs, and disconnects *(Models 6611 and 6612)*
- **Motor Rotation Detection** — Magnetic-field sensor on the instrument face reads motor shaft rotation after run-up *(Model 6611 only)*
- **Line-Powered Operation** — Draws operating power from the circuit under test, no battery required *(Model 6612 only)*
- **Voltage Range**
  Model 6610: (75 to 1000) VAC
  Model 6611: (1 to 440) VAC rotary direction, (120 to 400) VAC phase detection
  Model 6612: (40 to 850) VAC phase-to-phase
- **Low Test Current** — Safe on sensitive control circuits
  Model 6611: < 3.5 mA per phase
  Model 6612: 1 mA
- **Safety Rating** — 1000 V CAT III, 600 V CAT IV
- **Ingress** — IP40 housing *(Models 6611 and 6612)*

APPLICATIONS

- Verify phase sequence before energizing motors, pumps, and compressors to prevent reverse rotation damage
- Confirm motor shaft rotation direction after maintenance or rewind without removing couplings *(Model 6611)*

PRODUCT INCLUDES

CAT. #2121.12 MODEL 6610
Soft carrying case, meter with attached test leads *(black/red/blue)* with non-contact sensor clips, battery and user manual.

CAT. #2121.90 MODEL 6611
CAT. #2121.91 MODEL 6612
Soft carrying case, (3) 4 ft color-coded *(black/red/blue)* test leads, (3) color-coded *(black)* alligator clips and user manual.



6610 case

6611 & 6612 test leads

6611 & 6612 case

See pages 105 for Accessories/Replacements

CAT. #	DESCRIPTION
2121.12	Phase Rotation Meter Model 6610 (Non-contact)
2121.90	Phase & Motor Rotation Meter Model 6611
2121.91	Phase Rotation Meter Model 6612

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MODELS CA 1725 & CA 1727

Contact and optical speed measurement for rotating machinery.



CA 1725 CA 1727

MODELS	CA 1725	CA 1727
MEASUREMENT		
Measurement Modes	Contact wheel, optical, external input	
Display	100,000-point digital and bargraph	
Logging	–	Onboard with USB transfer and TachoGraph software
Alarms	–	User-programmable high / low
Event Counter	–	Yes *(external input)*
MIN / MAX / HOLD	Yes	
POWER & MECHANICAL		
Power Supply	(1) 9 V alkaline battery	

Consult factory for NIST Calibration prices.

APPLICATIONS

- Verify motor shaft RPM after belt, coupling, or drive replacement
- Commission fans, pumps, and conveyors to nameplate speed during startup
- Record long-duration speed profiles on rotating equipment for acceptance reports *(Model CA1727)*

FEATURES

- **Three Measurement Modes** — Contact (wheel), non-contact optical, and external input for dedicated sensors
- **Digital display with bargraph** — Digital readout plus analog bargraph for trending stability and hunting
- **MIN / MAX / HOLD** — Captures transient speed events during starts, stops, and load swings
- **Data Logging** — Onboard recording with USB transfer and PC software *(Model CA1727)*
- **Programmable Alarms** — User-set high/low alarm thresholds for pass/fail operation (Model CA1727 only)
- **Event Counter** — Totalizes pulses or events from the external input *(Model CA1727)*
- **Power** — 9 V alkaline battery, portable handheld form factor

PRODUCT INCLUDES

CAT. #1748.10 MODEL CA 1725
CAT. #1748.30 MODEL CA 1727

Hard case, FRB F connector, 9 V alkaline battery, set of (15) reflective strips, quick start guide and user manual. CA 1727 also includes a USB cable and TachoGraph software.



See pages 105 for Accessories/Replacements

CAT. #	DESCRIPTION
1748.10	Tachometer Model CA 1725
1748.30	Tachometer Model CA 1727

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IP 65 | 1000 V CAT IV | ⧈

MODEL CA 773

2 handed live-dead-live tester with multi-meter functions for validating electrical safety.



MODEL	CA 773
ELECTRICAL	
Voltage	(12 to 1000) VAC / (12 to 1400) VDC
Resistance	(0.5 to 3000) kΩ
Continuity	Audible buzzer, threshold 100 Ω typical (150 Ω max)
RCD and GFCI Trip Test	Yes
Display	Analog bargraph and 5-digit digital
POWER	
Power	(2) AA alkaline batteries
SAFETY & INGRESS	
Safety Rating	1000 V CAT IV
Probe Option	Standard or IP2X finger-safe probe tips

Consult factory for NIST Calibration prices.

FEATURES

- **Voltage Measurement** — (12 to 1000) VAC / (12 to 1400) VDC with analog bargraph plus 5-digit digital readout
- **Resistance** — Three ranges to 3 kΩ for point-to-point continuity and bonding checks
- **Trip Test** — Test GFCI's and RCD's with easy-to-use trip test buttons
- **Audible Continuity** — Buzzer threshold at 100 Ω for one-handed continuity verification
- **IP2X Probe Option** — Finger-safe IP2X probe tips available for work on energized equipment compliant with finger-safe requirements
- **Safety Rating** — 1000 V CAT IV for service-entrance and distribution work



APPLICATIONS

- Verify presence or absence of voltage on branch-circuit and service-entrance conductors
- Check bonding continuity across enclosures, raceways, and equipment grounding conductors
- Perform quick resistance checks on control-circuit fuses, contactor coils, and limit switches

PRODUCT INCLUDES

Set of removable test probes Ø 2 mm with crystal safety cover, probe-tip protector, velcro strap, (2) AA alkaline batteries, and a multilingual user manual.



See pages 105 for Accessories/Replacements

CAT. #	DESCRIPTION
2121.15	Voltage Tester Model CA 773 (LED & backlit display, VAT 12 VAC ≤ U ≤ 1000 VAC; 12 VDC ≤ U ≤ 1400 VDC, Absence of Voltage)

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ELECTRICAL TEST TOOLS
SPLITTER, TESTER AND DETECTOR

AC LINE SPLITTER MODEL ALS-1

For use with clamp-on meters and multimeters using current probes.



ALS-1



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
- 120 V, 15 A capacity

See pages 105 for Accessories/Replacements

NON-CONTACT AC VOLTAGE DETECTOR

600 V CAT III CE

MODEL NC-1



NC-1



MODEL	NC-1
Voltage Sensitivity	(120 to 240) VAC
Frequency	(50 / 60) Hz
Detection Distance	< 5 mm
Over Voltage	600 V CAT III
Power Supply	(2) AAA alkaline batteries
Electrical Safety	For indoor use and in accordance with over voltage 600 V CAT III, Pollution Degree 2

See pages 105 for Accessories/Replacements

CAT. #	DESCRIPTION
2121.05	AC Line Splitter Model ALS-1
2121.09	Non-Contact AC Voltage Detector Model NC-1

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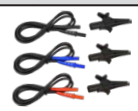
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6610	6611	6612	275HVD	CA 773	CA 1725	CA 1727
	1749.02	Mechanical Accessory Kit						•	•
	2117.73	Pouch – Replacement Dimensions: (7 × 8.5 × 2) in	•	•	•				
	2118.65	Case – Soft Carrying Case Dimensions: (10.5 × 5 × 2) in					•		
	2119.48	Multi-purpose Canvas Pouch Dimensions: (11 × 5 × 2.25) in					•		
	2121.55	Set of (3) Replacement Leads, color-coded (1000 V CAT III 10 A) with Clips		•	•				
	2131.36	Replacement Carrying Case				•			
	2136.80	Cable – 10 ft USB Type-A to Type-B							•
	5100.01	Replacement – Set of (2) Test Probes (red/black)					•		
	5100.03	Replacement – Battery Housing with O-ring and Spring				•			
	5100.11	Adapter – Universal Spline Adapter				•			

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INSTRUMENTS
CHAUVIN ARNOUX GROUP

Real people, real support. We take pride in delivering responsive customer care, expert technical assistance, and dependable solutions to help you work with confidence.

Whether you have a technical question or need help finding the right instrument, our experienced team is ready to provide fast, reliable assistance.

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RELIABILITY WHEN IT MATTERS™

ENVIRONMENTAL TESTERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Environmental Testers?

Our environmental testers provide fast, accurate measurements of temperature, airflow, humidity, light, and indoor air quality to support installation, commissioning, and troubleshooting. Whether balancing ductwork, diagnosing comfort complaints, or documenting building performance, reliable environmental data drives better system operation and occupant comfort.

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ENVIRONMENTAL TESTERS
AIR QUALITY LOGGER
MODEL 1510

IP 40 | 50 V CAT II | CE

Monitor CO_2 concentration, temperature, and humidity for healthy indoor environments and HVAC optimization.

Assist with the prevention of circulating viruses like COVID-19 and flu by testing indoor air quality.



DataView®

Google Play

(Free Android™ App available on Google® Play)

MODEL	1510
MEASUREMENTS	
Measurements	CO_2 concentration, temperature, relative humidity
Measurement Range	CO_2: 0 to 5000 ppm Temperature: (14 to 140) °F (-10 to 60) °C RH: 5 to 95 % RH
Accuracy *(CO_2)*	± 50 ppm ± 3 % of R ± 50 ppm
RECORDING	
Storage Period	Programmable from (1, 2, 5, 10, 20, 30) min, (1, 2) h
Memory	8 MB flash; up to 1,000,000 measurements
Recording Duration *(10 min sample period)*	Up to 45 days on alkaline batteries
GENERAL	
Connectivity	USB and Bluetooth® *(DataView® compatible)*
Power Source	(2) AA alkaline batteries or USB power

Consult factory for NIST Calibration prices.

FEATURES

- **Non-dispersive infrared (NDIR) CO_2 measurement** with double-beam infrared cell sensor measuring (0 to 5000) ppm for accurate indoor air quality assessment without sensor drift
- **Simultaneous CO_2, temperature, and humidity monitoring** captures the key environmental parameters that determine ventilation effectiveness and occupant comfort in a single instrument
- **Large multi-line backlit digital display** shows real-time CO_2 concentration, temperature, and relative humidity simultaneously with blue backlighting that turns red when alarm thresholds are exceeded
- **Programmable storage period** from 1 minute to 2 hours with over 1 million measurement storage capacity for long-term indoor air quality studies and ventilation performance documentation
- **Configurable audible and visual alarm thresholds** for CO_2 levels to alert when ventilation falls below acceptable standards, supporting demand-controlled ventilation optimization
- **Bluetooth® and USB communication** with DataView® software for real-time monitoring, data download, analysis, and automated report generation
- **Battery or USB powered operation** with (2) AA alkaline batteries or micro-USB connection to 120 V 60 Hz line power for flexible portable deployment



PRODUCT INCLUDES

Soft carrying pouch, adapter – US wall plug to USB, 6 ft USB cable (Type-A to Type-B micro), (2) AA batteries, printed quick start guide, and a USB drive with DataView® software and user manual.



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

See pages 112 for Accessories/Replacements

CAT. #	DESCRIPTION
2138.08	Air Quality Logger Model 1510 (Gray)
2138.09	Air Quality Logger Model 1510 (White)

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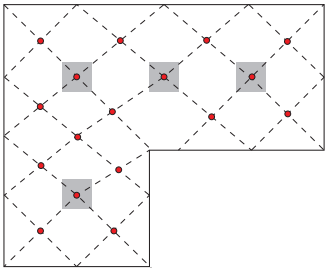
AEMC® INSTRUMENTS

ENVIRONMENTAL TESTERS
LIGHTMETER
MODEL 1110

Measure and record illuminance levels to verify proper lighting performance in commercial and industrial environments.





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

AUTOMATIC REPORT GENERATION
DataView®

Google Play
(Free Android™ App available on Google® Play)

MODEL	1110
MEASUREMENTS	
Measurements	Illuminance (Lux / Footcandles)
Measurement Range	(0.1 to 200,000) lx (0.01 to 18,580) fc
Accuracy	±3 % of R ± 2 cts on incandescent sources ±6 % of R on LED (3000 to 6000) K ±9 % of R on fluorescent sources
RECORDING	
Storage Period	Programmable from (1, 2, 5, 10, 20, 30) s, (2, 5, 10, 15, 30, 60) min via DataView®
Memory	8 MB flash; up to 1,000,000 measurements Non-volatile; retained even if battery is low or removed
Recording Duration *(15 min sample period)*	Up to 3 years on alkaline batteries
GENERAL	
Connectivity	USB and Bluetooth® *(DataView® compatible)*
Power Source	(3) AA alkaline batteries or USB power

Consult factory for NIST Calibration prices.

FEATURES

- **Wide dynamic range illuminance measurement** from (0.1 to 200,000) lux, (0.01 to 18,580) fc with auto-ranging for accurate readings across all lighting conditions from dim corridors to bright outdoor environments
- **User-selectable light source compensation** for LED, fluorescent, and incandescent sources ensures accurate readings regardless of source type, with spectral error correction that matches CIE photopic response
- **Removable light sensor with expandable cord** up to 48 inches for flexible positioning at the measurement surface while the operator reads the display from a comfortable distance
- **MAP mode for illuminance profiling** records multiple measurement points to create a lighting uniformity map of a room or area of interest with printable report output
- **Up to 1,000,000 measurements stored in 8 MB flash memory** with non-volatile storage that retains recorded data even if the battery is low or removed, ensuring no loss of long-term study data
- **Min, Max, and Average measurement functions** for evaluating lighting variability and performance over time during commissioning and energy efficiency audits
- **USB and Bluetooth® communication** with DataView® graphing and analysis software for data download, real-time display, trend analysis, and automated report generation
- **Free Android™ app available** from the Google® Play Store for wireless data viewing and export to Excel files directly from the field
- **Magnetic mount with battery or USB power** using (3) AA alkaline batteries in a compact, IP50-rated polycarbonate housing for versatile field deployment and hands-free operation

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

PRODUCT INCLUDES

Soft carrying pouch, 6 ft USB cable (Type-A to Type-B micro), (3) AA batteries, a printed quick start guide, USB drive with DataView® software and user manual.

See pages 112 for Accessories/Replacements

CAT. #	DESCRIPTION
2121.71	Lightmeter Data Logger Model 1110

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ENVIRONMENTAL TESTERS
THERMOCOUPLE THERMOMETER DATA LOGGER
MODEL 1822

with USB connector closed

Dual-channel thermocouple thermometer and data logger for high-performance temperature measurement across industrial and environmental applications.



DataView® Automatic Report Generation

Google Play

(Free Android™ App available on Google Play)

MODEL	1822
MEASUREMENTS	
Measurements	Temperature (Thermocouple Types J, K, T, N, E, R, S) Dual Channel, Differential (T1–T2)
Measurement Range	J: (-346 to 2192) °F (-210 to 1200) °C K: (-328 to 2501) °F (-200 to 1372) °C T: (-328 to 752) °F (-200 to 400) °C N: (-328 to 2372) °F (-200 to 1300) °C E: (-238 to 1742) °F (-150 to 950) °C R/S: (32 to 3213) °F (0 to 1767) °C
Resolution	0.1 °C below 1000 °C 1 °C at 1000 °C and above
RECORDING	
Storage Period	Programmable from (1, 2, 5, 10, 20, 30) s, (1, 2, 5, 10, 15, 30, 60) min via DataView® *(Data Logger Control Panel)*
Memory	8 MB flash; up to 1,000,000 measurements Each measurement stored with date, time, and unit; both channels recorded
Recording Duration ***(15 min sample period)***	Up to 3 years on alkaline batteries *(Bluetooth® off)*
GENERAL	
Connectivity	USB and Bluetooth® *(DataView® compatible)*
Power Source	(3) AA alkaline batteries or USB power

Consult factory for NIST Calibration prices.

FEATURES

- **Dual-channel thermocouple inputs (T1, T2, T1–T2 differential)** for simultaneous measurement and comparison of two temperature points, enabling supply/return differential analysis and process verification
- **Seven selectable thermocouple types (J, K, T, N, E, R, S)** with compensated miniature female connectors covering measurement ranges from (-346 to 3213) °F (-210 to 1767) °C for broad industrial and environmental application
- **High accuracy with 0.1° resolution** below 1000° and 1° resolution above, delivering the precision needed for process validation, calibration checks, and commissioning documentation
- **Spot or continuous recording with programmable intervals** from 1 minute to 2 hours, storing over 1 million measurements in 8 MB flash memory for extended temperature trending and alarm-triggered data capture
- **Programmable alarm thresholds** with visual alert on the product in the event of an overrun, and recording can be triggered on alarm conditions for unattended monitoring
- **Bluetooth® and USB communication** with DataView® software for real-time display, automatic report generation in Microsoft Word format, and data export in graph or Excel table format
- **Magnetic mount and wall mount system** compatible with MultiFix accessory *(CAT. #5000.44)* and optional shockproof housing *(CAT. #2122.31)*
- **IP50 ingress protection** with USB connector closed, for reliable operation in indoor and outdoor field environments
- **Battery or USB powered** with (3) AA alkaline batteries providing 1000 hours portable operation or 3 years of recording at 15-minute measurement intervals

PRODUCT INCLUDES

Soft carrying pouch, 6 ft USB cable (Type-A to Type-B micro), (2) K Thermocouple flexible sensors, (3) AA Akaline batteries, printed quick start guide, and a USB drive with DataView® software and user manual.



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

See pages 112 for Accessories/Replacements

CAT. #	DESCRIPTION
2121.75	Thermocouple Thermometer Data Logger Model 1822

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AEMC® INSTRUMENTS

ENVIRONMENTAL TESTERS
THERMO-HYGROMETER DATA LOGGER
MODEL 1246

Measure humidity, temperature, and dew point in all conditions for HVAC monitoring, building commissioning, and environmental compliance.



DataView®

MODEL	1246
MEASUREMENTS	
Relative Humidity	
Measurement Range	(3.0 to 98.0) % RH
Accuracy	± (2 % RH ± 1 ct) from 10 to 90 % RH ± (4 % RH ± 1 ct) outside that range
Temperature	
Measurement Range	(14 to 140) °F (-10 to 60) °C
Accuracy (°C)	± (0.5 °C ± 1 ct) from (10 to 40) °C Outside that range: ± (0.032 × (T-25) ± 1 ct)
Dew Point	
Measurement Range	(14 to 140) °F (-10 to 60) °C
Accuracy	(20 to 30) % RH: ± 1.5 °C (± 2.7 °F) > 30 % RH: ± 1.0 °C (± 1.8 °F)
RECORDING	
Storage Period	Programmable from (1, 2, 5, 10, 20, 30) s, (1, 2, 5, 10, 15, 30, 60) min via DataView®
Memory	8 MB flash; up to 1,000,000 measurements
Recording Duration *(15 min sample period)*	Up to 3 years on alkaline batteries *(Bluetooth® off)*
GENERAL	
Connectivity	USB and Bluetooth® *(DataView® compatible)*
Power Source	(3) AA alkaline batteries or USB power

Consult factory for NIST Calibration prices.

FEATURES

- **Simultaneous measurement of temperature, relative humidity, and calculated dew point** with selectable dual-line display pairs (RH + Temperature, Dew Point + RH, Dew Point + Temperature) for immediate field assessment
- **Temperature range from (14 to 140) °F (-10 to 60) °C** with semiconductor sensor, 0.1° resolution, and ±(0.5 °C ± 1 count) accuracy in the (10 to 40) °C range for reliable environmental monitoring
- **Humidity range from 3 to 98 % RH** with capacitive sensor, 0.1 % resolution, and ±2 % RH accuracy across the (10 to 90) % RH operating band for precise moisture assessment
- **Spot recording (MEM) and continuous session recording (REC) modes** with programmable intervals, over 1 million measurement storage in 8 MB flash memory, and alarm-triggered recording for unattended long-term studies
- **Programmable alarm thresholds for temperature and humidity** configurable through DataView® software with audible and visual indications when conditions drift outside acceptable ranges
- **Bluetooth® and USB communication** with DataView® software for real-time viewing, confinement index calculation, presence period selection, and automated standard or custom report generation
- **Built-in sensor with removable protective cap** and magnetic mount with backlit LCD display for flexible field positioning on metal surfaces, walls, or desktop stands
- **IP54 ingress protection** with cap and USB cover in place, battery or USB powered with (3) AA alkaline batteries providing up to 500 hours standby or 3 years of recording at 15-minute intervals

PRODUCT INCLUDES

Soft carrying pouch, 6 ft USB cable (Type-A to Type-B micro), (3) AA alkaline batteries, printed quick start guide, and a USB drive with DataView® software and user manual.



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

See pages 112 for Accessories/Replacements

CAT. #	DESCRIPTION
2121.73	Thermo-Hygrometer Data Logger Model 1246

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ENVIRONMENTAL TESTERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	1510	1110	1822	1246
	2118.09	Case – General Carrying Case Dimensions: (13 × 9.5 × 3) in			•	•
	2118.65	Pouch – Replacement Carrying Pouch Dimensions: (10.5 × 5 × 2) in		•		•
	2122.31	Shock Proof Housing		•	•	•
	2126.45	Adapter, Bluetooth® USB	•	•	•	
	2138.66	Cable – 6 ft USB Type-A to Type-B Micro	•	•	•	•
	2153.78	Adapter – Replacement US Wall Plug to USB	•	•	•	•
	5000.44	MultiFix *(universal mounting system)*		•	•	•



Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

AUTOMATIC REPORT GENERATION

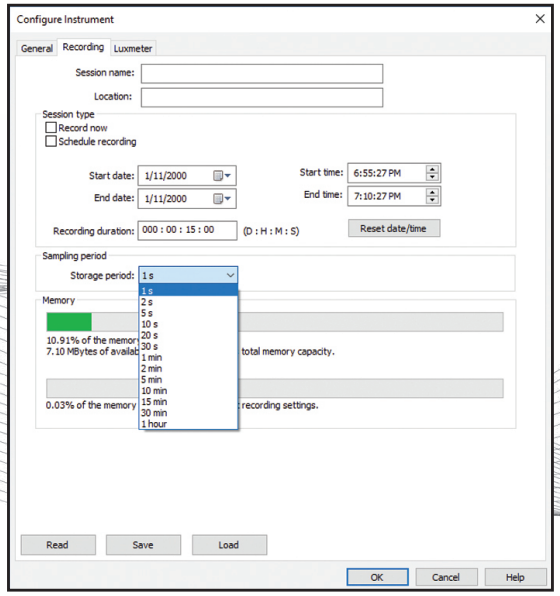
AEMC® INSTRUMENTS www.aemc.com

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

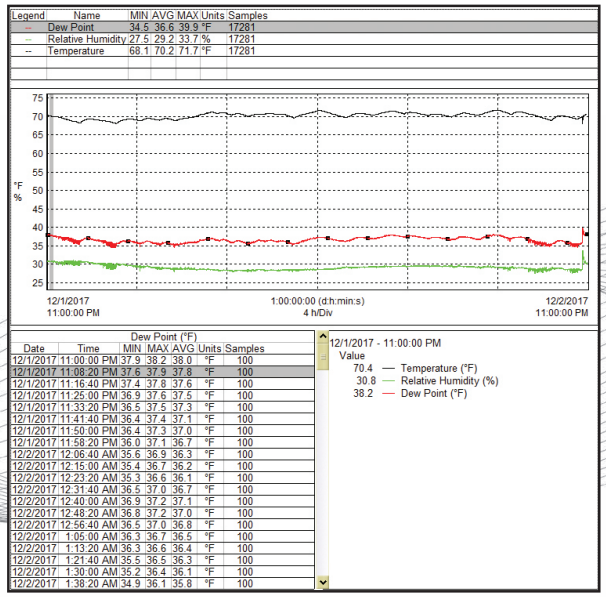


Configure all functions:

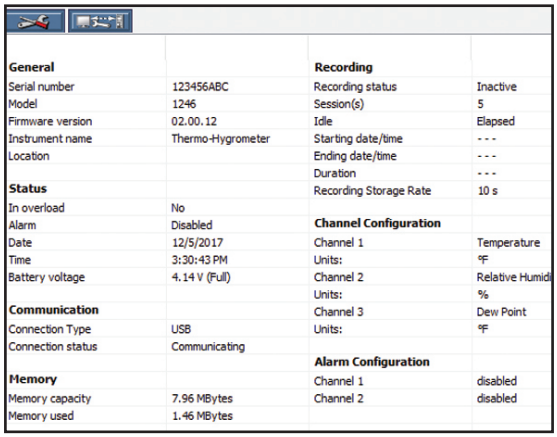
- Display and analyze real-time data on your PC
- View measurements in real-time, download, display and analyze recorded and stored data
- Display trend graphs and text summaries
- Print reports using standard or custom templates
- Free software upgrades are available on our website ***www.aemc.com***



The recording configuration screen lets you name and save the session, define the storage rate, schedule recording times, and view memory usage.

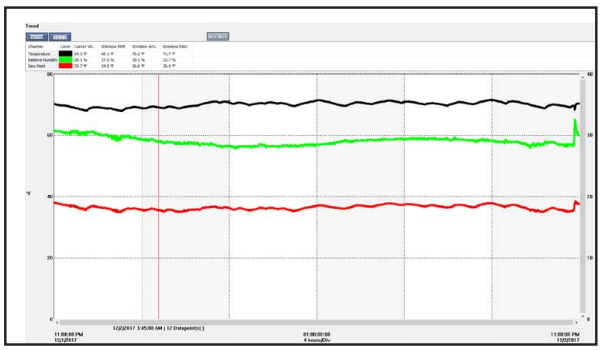


A typical report includes both a graphical plot of the data and a detailed list of the recorded measurements.



General		**Recording**	
Serial number	123456ABC	Recording status	Inactive
Model	1246	Session(s)	5
Firmware version	02.00.12	Idle	Elapsed
Instrument name	Thermo-Hygrometer	Starting date/time	- - -
Location		Ending date/time	- - -
		Duration	- - -
Status		Recording Storage Rate	10 s
In overload	No		
Alarm	Disabled	**Channel Configuration**	
Date	12/5/2017	Channel 1	Temperature
Time	3:30:43 PM	Units:	°F
Battery voltage	4.14 V (Full)	Channel 2	Relative Humidi
		Units:	%
Communication		Channel 3	Dew Point
Connection Type	USB	Units:	°F
Connection status	Communicating		
		Alarm Configuration	
Memory		Channel 1	disabled
Memory capacity	7.96 MBytes	Channel 2	disabled
Memory used	1.46 MBytes		

Typical status screen shows current state of the instrument.



A typical data recording graph displays measurements over time, along with the minimum, maximum, and average values for the entire recording. A movable cursor allows you to view the exact measurement at any point in time.

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AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

Boost your skills with AEMC® Instruments!
Alongside our products, we offer accredited one-day and multi-day courses in ground and bond testing, power logging, and insulation resistance testing.

Engineered for Excellence
RELIABILITY WHEN IT MATTERS™

GROUND RESISTANCE TESTERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Ground Resistance Testers?

Accurate ground and soil testing is essential for ground system design, commissioning, and periodic maintenance to ensure safe, reliable electrical installations. Our easy-to-use instruments support soil resistivity testing along with all common Ground Resistance methods—including Point-to-Point, Clamp-On, and 3- or 4-Point Fall-of-Potential—giving you the flexibility to evaluate site conditions and verify grounding performance. With one of the industry's largest selections of Ground Resistance Testers, including revolutionary clamp-on solutions and models designed for energized transmission towers, AEMC® Instruments delivers efficient, dependable testing for any grounding system.

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

GROUND RESISTANCE TESTERS
MULTIFUNCTION

IP 65 | 600 V CAT IV | CE

MODELS 6422 & 6424

Easily complete Fall-of-Potential and point-to-point measurements.





MODELS	6422	6424
TEST METHODS		
Resistance-to-Ground		
3-Pole Fall-of-Potential	Yes	
Selective Fall-of-Potential	N/A	
Clamp-On	N/A	
Other Measurements		
Step & Touch Potential	N/A	
2-pole Continuity, Point-to-Point	Yes	
Voltage - V	N/A	Yes
Current - A	N/A	Yes[1]
ELECTRICAL		
Test Voltage	10 V	
Maximum Test Current	20 mA	
Test Frequencies	128, 256 Hz *(auto select)*	
3-Pole Ω Range	0.5 Ω to 2 kΩ	0.5 Ω to 50 kΩ
3-Pole Typical Accuracy	± 1 %	
2-Pole Ω Range	0.05 Ω to 50 kΩ	
2-Pole Typical Accuracy	± 2 %	
Clamp-On Ω Range	N/A	
Clamp-On Typical Accuracy	N/A	
MEASUREMENT VALUES & ALARMS		
Measurements	Ω	Ω, V, I
Calculations	N/A	3-pole average (52, 62, 72) %
Audible Alarms	N/A	
DATA STORAGE & REPORTING		
Communication - USB	N/A	
DataView® Reporting	N/A	
Onboard Measurement Storage	N/A	3 measurements
GENERAL		
Display	Multi-parameter backlit LCD	
Power Supply	(6) AA alkaline batteries	(6) AA NiMH rechargeable batteries compatible with alkaline
Power Source	N/A	2 A USB charger
Battery Life	>2000 measurements	
SAFETY & ENVIRONMENT		
CAT Rating	600 V CAT IV	
IP Rating	IP65	

Consult factory for NIST Calibration prices.

[1] With optional accessory Clamp MN72

CAT. #	DESCRIPTION
2135.55	Ground Resistance Tester Model 6422 (Digital, 3-Point)
2135.56	Ground Resistance Tester Model 6422 Kit-150 ft (Digital, 3-Point)
2135.57	Ground Resistance Tester Model 6424 (Digital, 3-Point)
2135.58	Ground Resistance Tester Model 6424 Kit-150 ft (Digital, 3-Point)
2135.59	Ground Resistance Tester Model 6424 Kit-300 ft (Digital, 3-Point)

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GROUND RESISTANCE TESTERS
MULTIFUNCTION
MODELS 6422 & 6424

FEATURES

- User-friendly 3-pole Ground Resistance Testers designed for Fall-of-Potential testing and 2-pole point-to-point continuity measurements on single ground rods through complex ground electrode systems
- Rugged, portable, and moisture-resistant design (IP65) with protective rubber molding; integrated rubber feet allow stable placement and improved viewing angles during testing
- Fast test cycles with typical 3-pole measurements completed in approximately 10 seconds, continuous 2-pole mode provides real-time resistance readings
- Large, glove-friendly test button and high-contrast backlit display ensure easy operation and clear visibility in all lighting and environmental conditions
- Visual confirmation of stable measurements with automatic HOLD function and green illumination of the test button upon completion of 3-pole tests
- Color-coded terminals and matching test leads provide fast, intuitive, and error-free connections
- Automatic test frequency selection in 3-pole mode optimizes measurement stability and accuracy in electrically noisy environments
- Built-in simplified (62 % method) Fall-of-Potential averaging and deviation analysis helps confirm test validity and identify poor electrode placement *(Model 6424 only)*
- Built-in test lead compensation (up to 5 Ω) in 2-pole mode ensures accurate continuity measurements over long distances *(Model 6424 only)*
- Multifunction capability on Model 6424 includes AC/DC voltage measurement and leakage current measurement when used with the optional MN probe
- Powered by 6 AA batteries, Model 6424 utilizes NiMH cells and is USB rechargeable
- 600 V CAT IV rating plus hazardous voltage indication ensures operator safety

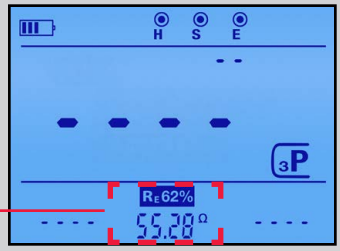
APPLICATIONS

- Fall-of-Potential resistance-to-ground testing on newly installed ground rods at transformer pads and electrical services
- Point-to-point continuity measurements on static grounding and bonding systems
- Simplified Fall-of-Potential testing on lightning protection systems, with automatic averaging and percent deviation to verify measurement accuracy
- AC current and voltage measurements at electrical services when using the Model 6424 with the optional current clamp (Model 6424 only)

FUNCTIONAL DISPLAYS



2-P mode used for continuity and bonding checks – is active when the instrument is turned on.

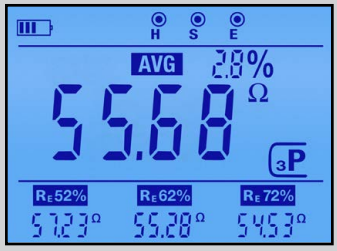


3-P mode used for measuring the grounding system. Measurements taken at 52 %, 62 % and 72 % of the distance to the H current injection probe are stored and displayed.

Model 6424

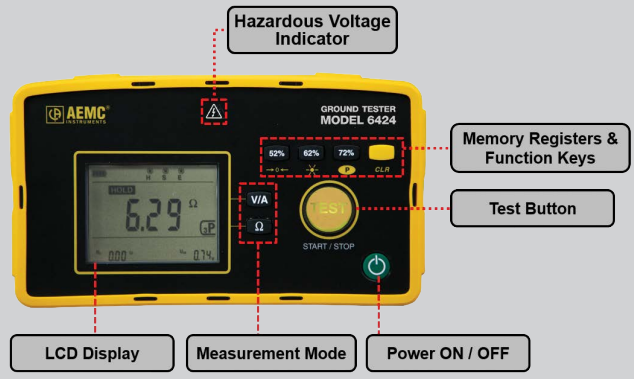


Live voltage is displayed when the V/A function is selected and test leads are connected to AC or DC voltage. *(Model 6424)*



Final 3-P measurement screen displays average value as well as deviation between 52 % and 72 % to assist in determining measurement accuracy. *(Model 6424)*

FRONT PANEL - 6424



PRODUCT INCLUDES

CAT. #2135.55 GROUND RESISTANCE TESTER MODEL 6422
CAT. #2135.56 GROUND RESISTANCE TESTER MODEL 6422 ***(150 FT KIT)***
CAT. #2135.57 GROUND RESISTANCE TESTER MODEL 6424
CAT. #2135.58 GROUND RESISTANCE TESTER MODEL 6424 ***(150 FT KIT)***
CAT. #2135.59 GROUND RESISTANCE TESTER MODEL 6424 ***(300 FT KIT)***

(2) 150 ft color-coded leads on spools *(red/blue)*, (1) 30 ft lead *(green)*, (2) T-shaped auxiliary ground electrodes, set of (2) 5 ft color-coded *(red/blue)* leads, (1) 100 ft tape measure, (6) AA rechargeable batteries, carrying bag and user manual.
Model 6424 also includes: USB to wall charger, USB charger cable

See pages 130 to 133 for Accessories/Replacements

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GROUND RESISTANCE TESTERS
DIGITAL TESTERS
MODELS 4620 & 4630

IP 65 cover closed | 30 V CAT III | CE | ⧈

Simple one button instruments for resistance-to-ground and soil resistivity testing.



FEATURES

- 4-pole ground resistance tester capable of 2-pole point-to-point, 3- & 4-pole resistance-to-ground and 4-pole soil resistivity measurements
- Rugged, dustproof, and watertight (IP-65) field case
- Color coded screw post terminals with both international and US designations
- High noise rejection for stable, accurate measurements in electrically noisy environments
- Simple one-button operation: connect leads, press and hold, read results
- LED indicators warn of high input noise, excessive auxiliary rod resistance, and faulty connections
- Large backlit display for clear visibility in all lighting conditions
- Battery powered *(Model 4620)* or AC powered with rechargeable NiMH battery pack *(Model 4630)*
- Fuse protection against accidental connections to live voltage sources, CAT III rating ensures operator safety

CAT. #	DESCRIPTION
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 – 150 ft (Model 4620 and CAT. #2135.35)
2135.20	Ground Resistance Tester Model 4620 Kit – 300 ft (Model 4620 and CAT. #2135.36)
2135.21	Ground Resistance Tester Model 4620 Kit – 500 ft (Model 4620 and CAT. #2135.37)
2135.22	Ground Resistance Tester Model 4630 Kit – 150 ft (Model 4630 and CAT. #2135.35)
2135.23	Ground Resistance Tester Model 4630 Kit – 300 ft (Model 4630 and CAT. #2135.36)
2135.24	Ground Resistance Tester Model 4630 Kit – 500 ft (Model 4630 and CAT. #2135.37)

MODELS	4620	4630
TEST METHODS		
Resistance-to-Ground		
3-Pole Fall-of-Potential	Yes	
4-Pole Fall-of-Potential	Yes	
Selective Fall-of-Potential	N/A	
Clamp-On	N/A	
Soil Resistivity		
Wenner Method	Yes	
Schlumberger Method	Yes	
Other Measurements		
Step & Touch Potential	Yes	
2-Pole Continuity, Point-to-Point	Yes	
4-Pole Continuity, Point-to-Point	N/A	
ELECTRICAL		
Test Voltage	≤ 42 V	
Maximum Test Current	10 mA	
Test Frequencies	128 Hz	
3-Pole Ω Range	(0 to 1999) Ω	
3-Pole Typical Accuracy	± 2 %	
2-Pole Ω Range	(0 to 1999) Ω	
2-Pole Typical Accuracy	± 2 %	
4-Pole Ω Range	(0 to 1999) Ω	
4-Pole Typical Accuracy	± 2 %	
Clamp-On Ω Range	N/A	
Clamp-On Typical Accuracy	N/A	
MEASUREMENT VALUES & ALARMS		
Measurements	Ω	
Calculations	N/A	
Audible Alarms	N/A	
GENERAL		
Display	Backlit LCD	
Power Supply	(8) C alkaline batteries	Rechargeable NiMH pack
Power Source	–	120 V line
Battery Life	>2000 measurements	
SAFETY & ENVIRONMENT		
CAT Rating	CAT III 300 V	
IP Rating	IP65	

Consult factory for NIST Calibration prices.

PRODUCT INCLUDES

CAT. #2130.43 GROUND RESISTANCE TESTER MODEL 4620
CAT. #2130.44 GROUND RESISTANCE TESTER MODEL 4630
CAT. #2135.19 GROUND RESISTANCE TESTER MODEL 4620 ***(150 FT KIT)***
CAT. #2135.20 GROUND RESISTANCE TESTER MODEL 4620 ***(300 FT KIT)***
CAT. #2135.21 GROUND RESISTANCE TESTER MODEL 4620 ***(500 FT KIT)***
CAT. #2135.22 GROUND RESISTANCE TESTER MODEL 4630 ***(150 FT KIT)***
CAT. #2135.23 GROUND RESISTANCE TESTER MODEL 4630 ***(300 FT KIT)***
CAT. #2135.24 GROUND RESISTANCE TESTER MODEL 4630 ***(500 FT KIT)***

(8) C-cell batteries *(Model 4620)* or rechargeable battery pack *(Model 4630)*, AC power cord *(Model 4630)*, and user manual.

See pages 130 to 133 for Accessories/Replacements

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GROUND RESISTANCE TESTERS
CLAMP-ON
MODELS 6416, 6417 & 6418

IP 40 | 600 V CAT IV | 100 V CAT IV | Bluetooth | Android | ETL | CE | Double Insulated
6416, 6417 | 6418 | 6417 Only

Test grounding systems without isolating electrodes!



6416 6417 6418

DataView® 6417 only



Models 6416 and 6417 have a jaw opening of 1.38 in (35 mm)



Model 6418 has a jaw opening of 1.26 in (32 mm)

FEATURES

- Clamp-on ground resistance tester for measuring resistance-to-ground on grounding electrodes
- Large clamp opening accommodates most ground conductors, Model 6418's oblong jaw fits bus bars and electrodes in test wells
- Rugged, field-ready design with smooth clamp jaws to reduce the risk of damage to sensitive components in harsh environments
- High-contrast OLED display with dual readout of resistance and current for clear visibility in all lighting conditions
- Induces a circulating test current and measures the returned current to calculate ground resistance at 2083 Hz, Advanced functions calculate ground resistance at (50, 60, or 128) Hz *(Models 6416 & 6417 only)*
- Instantaneous, continuous measurements for rapid back-to-back testing
- Advanced measurement mode displays inductive component and touch voltage *(Models 6416 & 6417 only)*
- Stores up to 300 readings *(Model 6416)* or up to 2000 readings with Bluetooth® DataView® reporting *(Model 6417)*
- LOOP alarm alerts the user to improper clamp placement that may affect measurement accuracy
- CAT IV safety rating with touch voltage warning for operation in industrial environments

PRODUCT INCLUDES

CAT. #2141.01 GROUND RESISTANCE TESTER MODEL 6416
CAT. #2141.02 GROUND RESISTANCE TESTER MODEL 6417
CAT. #2141.03 GROUND RESISTANCE TESTER MODEL 6418
Hard carrying case, wrist strap, calibration loop, (4) AA batteries and user manual.

MODEL 6417
Hard carrying case, calibration loop, (4) AA batteries, quick start guide, and USB Drive with DataView® software and user manual.

APPLICATIONS

- Resistance-to-ground testing of permanently bonded electrode systems
- Quickly verify the individual resistance of parallel grounding electrodes
- Measure loop resistance on grounding conductors

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

See pages 130 to 133 for Accessories/Replacements

CAT. #	DESCRIPTION
2141.01	Ground Resistance Tester Model 6416 (Clamp-On, Alarm, Memory)
2141.02	Ground Resistance Tester Model 6417 (Clamp-On, Bluetooth®, Alarm, Memory, DataView® Software)
2141.03	Ground Resistance Tester Model 6418 (Clamp-On, Alarm, Memory, Oblong Jaws)

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GROUND RESISTANCE TESTERS
CLAMP-ON
MODELS 6416, 6417 & 6418

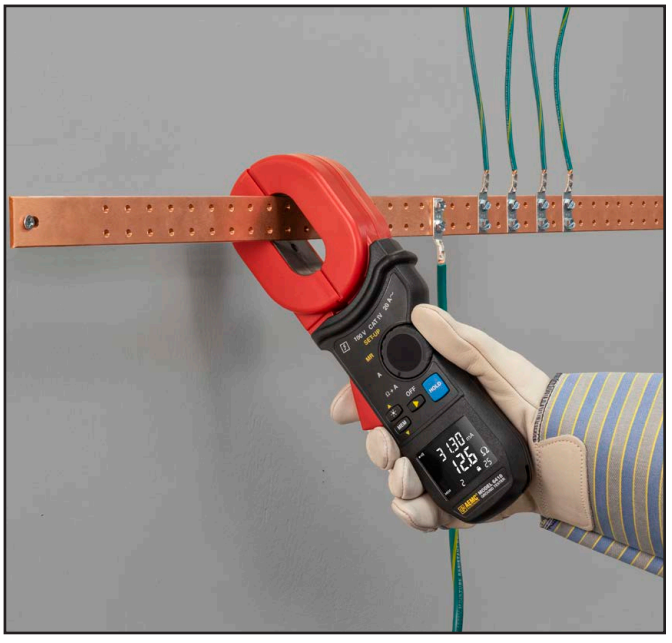
MODELS	6416	6417	6418
TEST METHODS			
Ground Impedance - Ω	Yes		
Current	Yes		
ELECTRICAL			
Test Frequency Selections	(50, 60, 128, 2083) Hz		2083 Hz
Clamp-On Ω Range	(.01 to 1500) Ω		(.01 to 1200) Ω
Clamp-On Accuracy	± 1.5 %		
Current - A	200 µA to 40 A		500 µA to 20 A
Current Typical Accuracy	± 2 %		
MEASUREMENT VALUES & ALARMS			
Measurements	Ω, V, I		Ω, I
Inductive Component - mH	Yes		N/A
Ground Impedance[1] - Ω @ (50, 60, 128) Hz	Yes		N/A
Touch Voltage[2] - V	Yes		N/A
Audible Alarms (Ω, V, A)	Yes		Ω, A
DATA STORAGE & REPORTING			
Communication	N/A	Bluetooth®	N/A
DataView® Reporting	N/A	Yes	N/A
Onboard Measurement Storage	300 measurements	2000 measurements	300 measurements
GENERAL			
Clamp Diameter	1.38 in (35 mm)		1.26 in (32 mm) or (1.18 × 1.57) in (30 × 40 mm) or 0.79 × 2.17 in (20 × 55 mm) bus bar
Display	Multi-parameter OLED display		
Power Supply	(2) AA alkaline batteries		
Battery Life	>1,400 measurements		
SAFETY & ENVIRONMENT			
CAT Rating	CAT IV 600 V		CAT IV 100 V
IP Rating	IP40		

Consult factory for NIST Calibration prices.

[1] In expert mode, impedances at frequencies of (50, 60 and 128) Hz can be displayed

[2] Value calculated as the product of the loop impedance by the leakage current





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AEMC® INSTRUMENTS

MODELS 6416, 6417 & 6418

FUNCTIONAL DISPLAYS *(MODEL DEPENDENT)*



Note: Display shown larger than actual size

MEASUREMENT RESULTS



Displays the leakage current and loop impedance at the test frequency

MEMORY RECALL MODE



Measurement storage date-time screen

ALARM



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

LOOP DETECTION



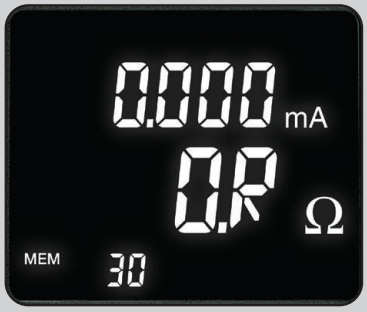
Detects and displays possible false readings associated with metal loops

GROUND VOLTAGE



Indicates voltage potential at the point of measurement

IMPEDANCE OVER RANGE



Indicates that the impedance is greater than 1500 Ω

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GROUND RESISTANCE TESTERS MULTIFUNCTION

MODEL 6471

IP 53 cover closed | 50 V CAT IV | CE

Versatile ground tester for design, commissioning and maintenance testing.



DataView®

PRODUCT INCLUDES

CAT. #2135.48 GROUND RESISTANCE TESTER MODEL 6471 ***(NO PROBES)***

CAT. #2135.49 GROUND RESISTANCE TESTER MODEL 6471 ***(WITH (2) SR182 PROBES)***

CAT. #2135.50 GROUND RESISTANCE TESTER MODEL 6471 ***(300 FT KIT)***

CAT. #2135.60 GROUND RESISTANCE TESTER MODEL 6471 ***(300 FT KIT WITHOUT PROBES)***

CAT. #2135.61 GROUND RESISTANCE TESTER MODEL 6471 ***(500 FT KIT WITHOUT PROBES)***

Carrying bag, power adapter with power cord, optical USB cable, rechargeable NiMH battery, and a USB drive with DataView® software, ground tester workbook and user manual.

KIT SHOWN 300 FT KIT: CAT. #2135.50

Carrying bag for kit, (2) 300 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (2) 100 ft hand-tied color-coded *(green/black)* leads, set of (2) SR182 current probes, power adapter with power cord, optical USB cable, (4) T-shaped auxiliary ground electrodes, set of (5) spaded lugs, 100 ft tape measure, rechargeable battery, and a USB drive with DataView® software, ground tester workbook and user manual.



2 probes required to perform stakeless testing

MODEL	6471
TEST METHODS	
Resistance-to-Ground	
3-Pole Fall-of-Potential	Yes
4-Pole Fall-of-Potential	Yes
Selective Fall-of-Potential [1]	Yes
Clamp-On [2]	Yes
Soil Resistivity	
Wenner Method	Yes
Schlumberger Method	Yes
Other Measurements	
Step & Touch Potential	Yes
2-Pole Continuity, Point-to-Point	Yes
4-Pole Continuity, Point-to-Point	Yes
ELECTRICAL	
Test Voltage	(16 or 32) V
Maximum Test Current	250 mA
Test Frequencies	(41 to 513) Hz, automatic or user defined
3-Pole Ω Range	0.02 Ω to 99.99 kΩ
3-Pole Typical Accuracy	± 2 %
2-Pole mΩ Range	0.02 Ω to 99.99 kΩ
2-Pole Typical Accuracy	± 2 %
4-Pole Ω Range	0.02 Ω to 99.99 kΩ
4-Pole Typical Accuracy	± 2 %
Clamp-On Ω Range	(.1 to 500) Ω
Clamp-On Typical Accuracy	± 10 %
MEASUREMENT VALUES & ALARMS	
Measurements	Ω, V, I, Hz
Calculations	Rho - ρ (Ω -m), earth coupling
Audible Alarms	Yes
DATA STORAGE & REPORTING	
Communication - USB	Yes
DataView® Reporting	Yes
Onboard Measurement Storage	512 Measurements
GENERAL	
Display	Multi-parameter backlit LCD
Power Supply	Rechargeable NiMH pack
Power Source	18 VDC Power Adapter
Battery Life	>1500 Measurements
SAFETY & ENVIRONMENT	
CAT Rating	CAT IV 50 V
IP Rating	IP53

Consult factory for NIST Calibration prices.

[1] A resistance-to-ground measurement for electrodes that cannot be isolated, requires one accessory clamp

[2] With optional accessory clamps (SR182 & MN82)

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

See pages 130 to 133 for Accessories/Replacements

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AEMC® INSTRUMENTS

GROUND RESISTANCE TESTERS MULTIFUNCTION

MODEL 6472

IP 53 cover closed | 50 V CAT IV | CE | ⧈

Advanced ground resistance tester for the most complex grounding systems.



AUTOMATIC REPORT GENERATION
DataView®



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

PRODUCT INCLUDES

CAT. #2135.51 GROUND RESISTANCE TESTER MODEL 6472 ***(NO PROBES)***
CAT. #2135.53 GROUND RESISTANCE TESTER MODEL 6472 ***(300 FT KIT)***
CAT. #2135.54 GROUND RESISTANCE TESTER MODEL 6472 ***(500 FT KIT)***

Carrying bag, power adapter with US power cord, optical USB cable, rechargeable battery, and a USB drive with DataView® software, ground tester workbook and user manual.

KIT SHOWN

6472 METER
300 ft Kit: CAT. #2135.53
500 ft Kit: CAT. #2135.54 *(shown)*

Refer to page 125 for Model 6472 Kit descriptions
CAT. #2135.35, #2135.36 and #2135.37



MODEL	6472
TEST METHODS	
Resistance-to-Ground	
3-Pole Fall-of-Potential	Yes
4-Pole Fall-of-Potential	Yes
Selective Fall-of-Potential [1]	Yes
Clamp-On [2]	Yes
Soil Resistivity	
Wenner Method	Yes
Schlumberger Method	Yes
Other Measurements	
Step & Touch Potential	Yes
2-Pole Continuity, Point-to-Point	Yes
4-Pole Continuity, Point-to-Point	Yes
ELECTRICAL	
Test Voltage	(10, 16, 32 or 60) V
Maximum Test Current	250 mA
Test Frequencies	(41 to 5078) Hz automatic, SWEEP, or user defined
3-Pole Ω Range	0.09 Ω to 99.9 kΩ
3-Pole Typical Accuracy	± 2 %
2-Pole mΩ Range	0.12 Ω to 99.9 kΩ
2-Pole Typical Accuracy	± 2 %
4-Pole Ω Range	0.09 Ω to 99.9 kΩ
4-Pole Typical Accuracy	± 2 %
Clamp-On Ω Range	(.1 to 500) Ω
Clamp-On Typical Accuracy	± 10 %
MEASUREMENT VALUES & ALARMS	
Measurements	Ω, V, I, Hz
Calculations	Rho - ρ (Ω -m), earth coupling
Audible Alarms	Yes
DATA STORAGE & REPORTING	
Communication - USB	Yes
DataView® Reporting	Yes
Onboard Measurement Storage	512 Measurements
GENERAL	
Display	Multi-parameter backlit LCD
Power Supply	Rechargeable NiMH pack
Power Source	18 VDC Power Adapter
Battery Life	>1500 Measurements
SAFETY & ENVIRONMENT	
CAT Rating	CAT IV 50 V
IP Rating	IP53

Consult factory for NIST Calibration prices.

[1] A resistance-to-ground measurement for electrodes that cannot be isolated, requires one accessory clamp

[2] With optional accessory clamps (SR182 & MN82)

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

See pages 130 to 133 for Accessories/Replacements

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GROUND RESISTANCE TESTERS MULTIFUNCTION

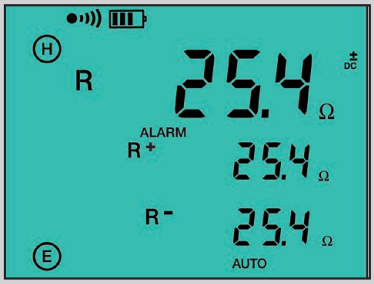
MODELS 6471 & 6472

FEATURES

- Advanced Ground Resistance Testers designed for two-clamp resistance-to-ground testing, Fall-of-Potential measurements, soil resistivity testing, and continuity testing
- Rugged, dust proof, and water-resistant field enclosure *(IP53, closed position)* for reliable operation in harsh outdoor environments
- Large backlit display with automatic illumination provides clear visibility during setup and measurement in all lighting conditions
- Color-coded terminals with automatic recognition of electrode connections and displayed test electrode resistance values reduce setup errors and improve test efficiency
- Supports two-clamp *(clamp-on method)* ground resistance testing without auxiliary rods, enabling fast measurements on bonded grounding systems
- Manual and automatic frequency sweep testing from (41 to 5078) Hz *(model dependent)* optimizes measurement stability across a wide range of site conditions
- Selectable test voltages of (10, 16, 32, or 60) V *(model dependent)* with output current up to 250 mA for demanding field conditions
- Stores up to 512 complete test results in internal memory
- Optically isolated USB interface included for remote operation via a laptop as well as secure data transfer and DataView® report generation
- Fully charged NiMH batteries power over 1000 tests on a single charge, Instrument operates while recharging
- Automatic power-off function conserves battery life
- CAT IV with fuse protection for operator safety

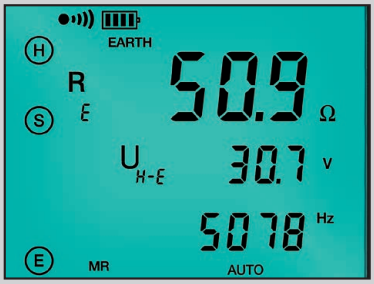
LARGE FUNCTIONAL DISPLAYS

POINT-TO-POINT (M OHM)



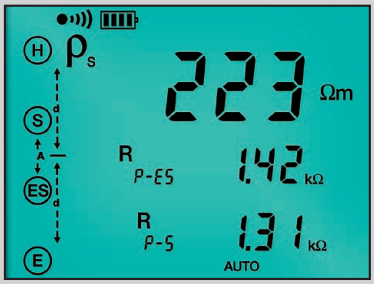
The 4-Point test shows lead connections, Continuity test results, test voltage and current.

3-POINT FALL-OF-POTENTIAL TEST



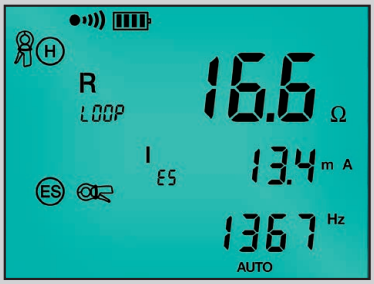
The 3-Point Fall-of-Potential test displays test lead connection, grounding rod resistance and test electrode resistances.

SOIL RESISTIVITY - SCHLUMBERGER



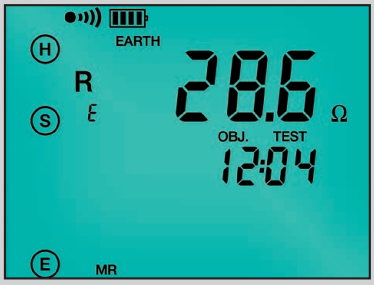
Displays resistance measurement, Resistivity (ρ) in (Ω-m) and test electrode spacing.

2-CLAMP TEST



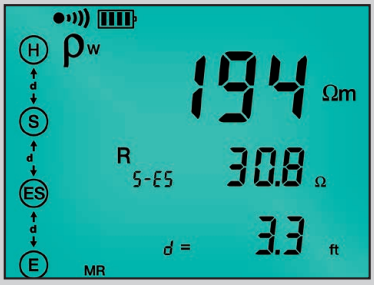
The 2-Clamp method displays clamp connection resistance, test current and frequency.

DATA STORAGE



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

SOIL RESISTIVITY - WENNER



Displays resistance measurement, Resistivity (ρ) in (Ω-m) and test electrode spacing.

CAT. #	DESCRIPTION
2135.48	Ground Resistance Tester Model 6471 (Digital, 3-Point, 4-Point, Clamp-on (SR182 probes not included), DataView® Software)
2135.49	Ground Resistance Tester Model 6471 (Digital, 3-Point, 4-Point, Clamp-on, (includes 2-SR182 probes), DataView® Software)
2135.50	Ground Resistance Tester Model 6471 Kit – 300 ft (CAT. #2135.49 and CAT. #2135.36)
2135.51	Ground Resistance Tester Model 6472 (Digital, 2-Point, 3-Point, 4-Point, Bond Test, DataView® software)
2135.53	Ground Resistance Tester Model 6472 Kit – 300 ft (CAT. #2135.51 and CAT. #2135.36)
2135.54	Ground Resistance Tester Model 6472 Kit – 500 ft (CAT. #2135.51 and CAT. #2135.37)
2135.60	Ground Resistance Tester Model 6471 Kit – 300 ft w/o Probes (CAT. #2135.48 and CAT. #2135.36)
2135.61	Ground Resistance Tester Model 6471 Kit – 500 ft w/o Probes (CAT. #2135.48 and CAT. #2135.37)

Technical Assistance (800) 343-1391

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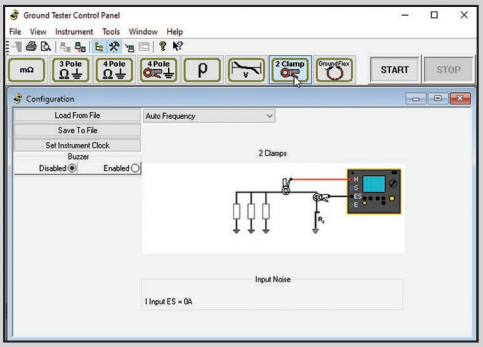
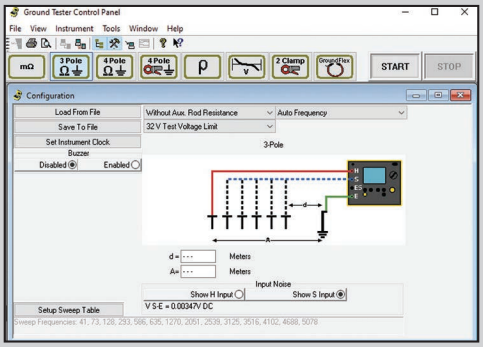
MODEL 6471 & 6472

GROUND TESTERS MODELS 6471 & 6472 — *TYPICAL DATAVIEW® FUNCTIONAL DISPLAYS*

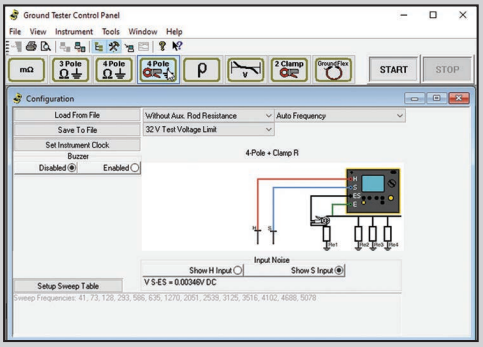
2-CLAMP METHOD SETUP



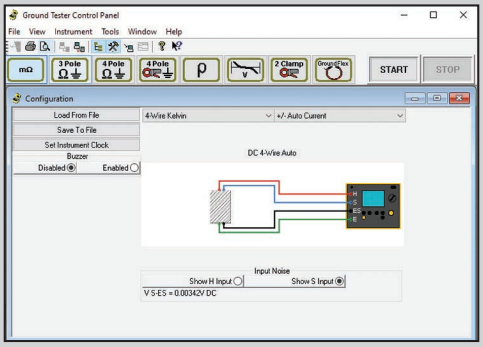
FALL-OF-POTENTIAL, STEP-TOUCH POTENTIAL



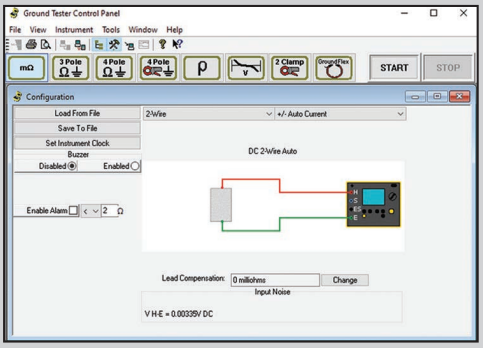
SELECTIVE 3-POINT TESTING OF INDIVIDUAL RODS



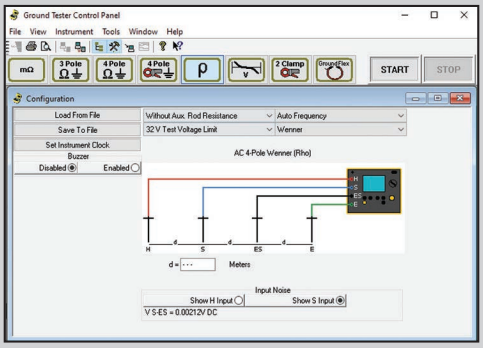
4-POINT-RESISTANCE



2-POINT-RESISTANCE



SOIL RESISTIVITY



OPTIONAL KITS



150 FT KIT
CAT. #2135.35
Test Kit for 3-Point testing includes carrying bag, (2) 150 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (1) 30 ft lead *(green)*, (2) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.



300 FT KIT
CAT. #2135.36
Test Kit for 4-Point testing includes carrying bag, (2) 300 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (2) 100 ft hand-tied color-coded leads *(green/black)*, (4) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.



500 FT KIT
CAT. #2135.37
Test Kit for 4-Point testing includes carrying bag, (2) 500 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (2) 100 ft hand-tied color-coded *(green/black)* leads, (1) 30 ft lead *(green)*, (4) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.

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GROUND RESISTANCE TESTERS MULTIFUNCTION

GROUNDFLEX® FIELD KIT

IP 53 cover closed | 50 V CAT IV | CE

Measure ground resistance of transmission towers without disconnecting the overhead ground wire!



DataView®

FEATURES

- Field-ready test kit designed for ground resistance and impedance testing of transmission and communication towers with complex grounding systems
- Highly sensitive GroundFlex® Sensors measure test current distribution through individual tower legs or monopole bases, enabling accurate resistance measurements without disconnecting overhead ground wires
- Performs frequency sweep impedance measurements from (41 to 5078) Hz to evaluate grounding performance across a wide frequency range, including lightning-related behavior
- Allows grounding measurements on energized structures, including real-time measurement of leakage current per leg and tower stray voltage
- Includes the Model 6472 Multifunction Ground Tester for soil resistivity testing, point-to-point continuity measurements, Fall-of-Potential testing, and additional grounding test methods
- Stores up to 512 complete test results in internal memory for reporting and documentation
- Rechargeable NiMH batteries provide power for over 1000 tests on a single charge and allow operation while charging
- Automatic power-off function conserves battery life
- CAT IV rated with fuse protection to ensure safe operation in utility and transmission environments

MODEL	GroundFlex® Field Kit
TEST METHODS	
Resistance-to-Ground	
3-Pole Fall-of-Potential	Yes
4-Pole Fall-of-Potential	Yes
Selective Fall-of-Potential (1)	Yes
Clamp-On (2)	Yes
Tower Testing	Yes
Soil Resistivity	
Wenner Method	Yes
Schlumberger Method	Yes
Other Measurements	
Step & Touch Potential	Yes
2-Pole Continuity, Point-to-Point	Yes
4-Pole Continuity, Point-to-Point	Yes
ELECTRICAL	
Test Voltage	(10, 16, 32 or 60) V
Maximum Test Current	250 mA
Test Frequencies	(41 to 5078) Hz automatic, SWEEP or user defined
Tower Testing Measurement Range	0.067 Ω to 99.99 kΩ
Tower Testing Typical Accuracy	± 5 %
MEASUREMENT VALUES & ALARMS	
Measurements	Ω, V, I, Hz
Calculations	Rho - ρ (Ω -m), earth coupling
Audible Alarms	Yes
DATA STORAGE & REPORTING	
Communication - USB	Yes
DataView® Reporting	Yes
Onboard Measurement Storage	512 Measurements
GENERAL	
Display	Multi-parameter backlit LCD
Power Supply	Rechargable NiMH pack
Power Source	18 VDC Power Adapter
Battery Life	>1500 Measurements
SAFETY & ENVIRONMENT	
CAT Rating	CAT IV 50 V
IP Rating	IP53

Consult factory for NIST Calibration prices.

(1) A resistance-to-ground measurement for electrodes that cannot be isolated, requires one accessory clamp
(2) With optional accessory clamps (SR182 & MN82)

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

See pages 130 to 133 for Accessories/Replacements

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GROUND RESISTANCE TESTERS
MULTIFUNCTION
GROUNDFLEX® FIELD KIT

Revolutionize Tower Grounding Measurements

GROUND TESTER 6472 KIT-500 FT

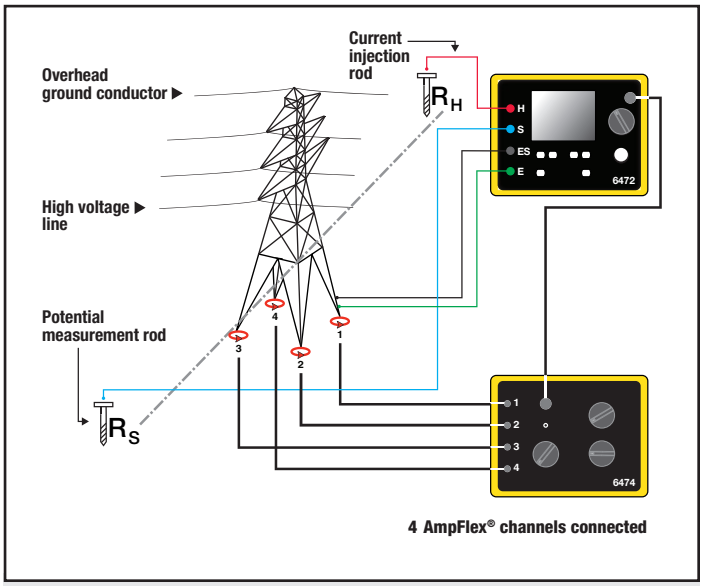
Includes Model 6472, (1) carrying bag, (2) 500 ft color-coded leads on spools *(red/blue)*, (2) 100 ft color-coded leads *(hand tied, green/black)*, (1) 30 ft lead *(green)*, (2) 5 ft color-coded leads *(red/blue)*, power adapter with power cord, optical USB cable, (4) T-shaped auxiliary ground electrodes, set of (5) spaded lugs, (1) 100 ft tape measure, rechargeable NiMH battery pack, USB stick with DataView® software, ground tester workbook and user manual.

GROUNDFLEX® FIELD KIT 6474
CAT. #2136.03 *(Includes Ground Tester 6472 KIT-500 FT)*

Includes GroundFlex® Adapter Model 6474, (4) GroundFlex® sensors (5 m), (12) color-coded rings, connection lead, (2) extension leads on H reel *(black/green)* with color-coded alligator clips, (1) extra green and black alligator clips, (2) BNC extension leads, calibration loop, (3) C-clamps, set of (2) reel caddy, (1) inverter 12 VDC to 120 VAC watt *(vehicle use)*, carrying case with wheels and handle for meters and user manual.





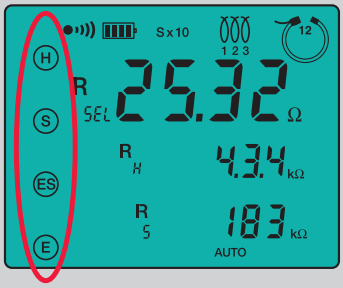


GROUND MEASUREMENT ON TOWERS WITH GROUND WIRE

High-voltage lines are usually equipped with a an overhead ground wire (OHGW) to allow lightning to discharge to ground via the tower grounding network. As all the towers are connected to OHGW, all the tower's resistances are in parallel. This means it is inaccurate to measure tower resistance using traditional Fall-of-Potential methods unless the OHGW is disconnected, which is a dangerous and time-consuming operation. The GroundFlex® Field Kit enables operators to bypass isolating the tower from the grounding network by utilizing highly sensitive GroundFlex® coils to differentiate and measure test current distribution through each tower leg, enabling an accurate resistance value to be calculated. Additionally, GroundFlex® utilizes a SWEEP mode set of increasing test frequencies to analyze the ground system performance when subjected to a spectrum of frequencies from lighting strikes.

AUTOMATIC RECOGNITION AND DISPLAY OF INPUT CONNECTIONS TO MATCH TEST

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



CAT. #	DESCRIPTION
2136.03	GroundFlex® Field Kit Model 6474 (Tower Tester)

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GROUNDFLEX® FIELD KIT

GROUNDFLEX® MEASURED PARAMETERS

The AEMC® GroundFlex® Field Kit provides a comprehensive suite of measurements designed to evaluate both the electrical performance and integrity of transmission tower grounding systems, whether the structure is isolated or networked through an overhead ground wire (OHGW). The GroundFlex system measures parameters that define how effectively a tower dissipates electrical energy into the earth and interacts with its surrounding network.

INDUCED AND STRAY VOLTAGE (U-ACT)

The real-time voltage naturally present on the tower and test leads before an active test is initiated. This identifies stray or induced voltages from energized circuits and can be used for step and touch potential assessments.

INDUCED AND LEAKAGE CURRENT (ISEL)

The total current flowing through the tower's grounding system under normal operating conditions, measured via the Rogowski (GroundFlex®) sensors. This verifies bonding integrity and identifies unbalanced current flow between legs.

PASSIVE RESISTANCE (RPASS)

A calculated value based on the relationship between stray voltage and leakage current. **RPASS** represents the system's apparent resistance under actual network operating conditions and is used to verify setup validity before active testing.

ACTIVE RESISTANCE (RSEL)

An analysis of the resistance of the grounding system lower frequencies, measured when Model 6472 injects a controlled test current. **RSEL** reflects the effective resistance of the tower to ground and is comparable to traditional F-o-P tests on unbonded towers. This measurement allows for a final verification of the kits setup.

SWEEP MODE IMPEDANCE (RSEL)

A frequency-dependent measurement performed automatically across 14 user-selectable test frequencies (40 Hz to 5 kHz). The resulting impedance curve characterizes both the resistive and inductive behavior of the grounding network — helpful for assessing lightning protection and transient response.





OVERHEAD GROUND WIRE (OHGW) BONDING CHECK

A verification test that verifies the continuity of the static or shield wire bonded to the tower. Variations across towers indicate potential corrosion, open connections, or bonding failures that could compromise system protection.

LADDER IMPEDANCE CHECK

The Ladder Impedance Check is a comparative test used to verify the continuity and effectiveness of the grounding network across multiple structures — typically several adjacent towers connected by the overhead ground wire (OHGW). Results from the Ladder Impedance Check should be equivalent to or slightly lower than measurements from an individual towers GroundFlex® **SWEEP** Test, since the interconnected network provides multiple parallel current paths that reduce overall impedance. Significant deviations or abrupt increases in impedance between towers may indicate a bonding fault, corrosion issue, or open static wire connection that warrants further investigation. *Ladder impedance checks require proper test probe spacing and may not be possible, or will yield inaccurate results in some instances.*

Technical Assistance (800) 343-1391

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GROUND RESISTANCE TESTERS
POINT-TO-POINT CONTINUITY TESTER
MODEL CA 6011

IP 40 | 300 V CAT IV | CE | ⧈

A fast, simple, and lightweight solution for testing grounded pathways and connections over long distances – even in hard-to-reach locations!



FEATURES

- **Comfortable**: wrist-worn and lightweight
- **Convenient**: continuity probe assists with performing testing in hard-to-reach areas
- **Efficient**: performs significantly faster than a ground resistance type meter
- **Accurate**: automatic polarity reversal *(applies current + to - then - to + for more accurate results)*
- **Lead compensation** for accurate measurements
- **Constant operation**: continuously measures — no need to press a button to start or stop a test
- Commissioning or troubleshooting bonded non-current carrying conductive pathways to ground
- Checking connections over long distances
- **Compatible with AEMC® Instruments ground testing accessories** *(instrument will work with our reel kits)*

APPLICATIONS

Test continuity on:

- EGC *(equipment ground conductors)*
- Swimming pool grounds
- Lightning conductors
- GEC *(ground electrode conductors)*
- Isolated ground conductors
- Electrical cabinets
- Motors
- Building steel
- Light fixtures
- Data centers
- Solar racks
- Windmill blades

Applicable industries:

- Lightning Protection
- Traffic management
- Data centers
- Solar/renewable energy
- MSHA *(Mining and general contractors)*
- Static ground for hazardous materials *(paint shops, chemical processing)*
- Utility (*construction for commissioning ground integrity for substations)*

MODEL	CA 6011
TEST METHODS	
2-Pole Continuity, Point-to-Point	Yes
4-Pole Continuity, Point-to-Point	N/A
ELECTRICAL	
Test Voltage	≤ 6 V
Maximum Test Current	200 mA
Test Frequencies	DC
2-Pole Ω Range	(0 to 200) Ω
2-Pole Typical Accuracy	± 5 %
4-Pole Ω Range	N/A
4-Pole Typical Accuracy	N/A
MEASUREMENT VALUES & ALARMS	
Measurements	Ω
Calculations	N/A
Audible Alarms	Yes
GENERAL	
Display	Backlit LCD
Power Supply	(4) AA alkaline batteries
Power Source	N/A
Battery Life	4500 measurements
SAFETY & ENVIRONMENT	
CAT Rating	300 V CAT IV
IP Rating	IP40

Consult factory for NIST Calibration prices.

PRODUCT INCLUDES

CAT. #2135.62 POINT TO POINT CONTINUITY TESTER MODEL 6011
Includes elastic wrist strap, (4) AA batteries, safety sheet and user manual

CAT. #2135.63 POINT TO POINT CONTINUITY TESTER **MODEL 6011** ***(TESTING KIT) (SHOWN)***
Includes elastic wrist strap, (4) AA batteries, small classic tool bag, (1) 5 ft red lead (straight/straight), (1) 5 ft black lead (straight/straight), (1) black test probe, (1) 150 ft red lead on spool, (1) continuity probe set, safety sheet and user manual



See pages 130 to 133 for Accessories/Replacements

CAT. #	DESCRIPTION
2135.62	Point-to-Point Continuity Tester Model CA 6011
2135.63	Point-to-Point Continuity Testing Kit Model CA 6011

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GROUND RESISTANCE TESTERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	2117.76	Bag – Small Flat Black Canvas Bag for Ground/Accessories Dimensions: (17 × 6.5 × 2.75) in	•	•	•	•	•	•	•	•	•	•	
	2118.09	Case – General Carrying Case Dimensions: (13 × 9.5 × 3) in					•	•	•				
	2119.48	Multi-purpose Canvas Pouch Dimensions: (11 × 5 × 2.25) in					•	•					
	2119.82	Multi-purpose Large Canvas Bag Dimensions: (22 × 10.5 × 12) in	•	•	•	•	•	•	•	•	•	•	
	2126.45	Adapter, Bluetooth® USB						•					
	2126.71	Case – Replacement Carrying Case Dimensions: (10.5 × 6.5 × 6) in	•	•									
	2130.59	25 Ω Calibration Checker			•	•							
	2130.60	100 ft Tape Measure for use with Ground Resistance Tester Kits	•	•	•	•	•	•	•	•	•	•	
	2133.72	Small Classic Tool Bag for field use Dimensions: (13.0 × 9.8 × 9.5) in											•
	2135.39	Set of (2) 14.5 in T-shaped Ground Rods for use with all Ground Testers *(except clamp-ons)*	•	•	•	•				•	•	•	
	2135.40	Bag – Replacement Carrying Bag								•	•	•	
	2135.41	Optical USB Cable								•	•	•	
	2135.43	Inverter – 12 VDC to 120 VAC 200 Watt for Vehicle Use		•		•				•	•	•	
	2135.44	Ground Rods – Set of (2) 17 in Stainless Steel Threaded T-shaped Auxiliary Ground Electrodes	•	•	•	•				•	•	•	
	2135.47	Replacement wrist strap for Ground Tester					•	•	•				

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

GROUND RESISTANCE TESTERS
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	2135.71	AC Current Probe Model MN82								•	•		
	2135.72	AC Current Probe Model SR182								•	•		
	2135.75	Replacement – Connection Lead									•		
	2135.76	BNC 50 ft (15 m) M/F Extension Lead – for use with any instrument that requires BNC connection										•	
	2135.77	Replacement – Set of (12) Groundflex® Rings for Model 6472/6474 Kit										•	
	2135.78	Green Extension Lead (5 m) on H Reel – for use with General Test Equipment accepting a 4 mm Safety Banana Plug										•	
	2135.79	Black Extension Lead (5 m) on H Reel – for use with general test equipment accepting a 4 mm Safety Banana Plug										•	
	2135.80	Replacement – Set of (3) C-Clamps										•	
	2135.81	Fuse – Set of (5) 0.63 A, 250 V (5 × 10) mm								•	•		
	2135.82	Replacement – Calibration Loop										•	
	2135.83	Replacement – Carrying Case for Model 6474 *(tray not included)*										•	
	2135.85	Set of (2) Reel Caddies for use w/ Ground Kit Spools	•	•	•	•				•	•	•	
	2135.86	BNC 150 ft (45 m) M/F Extension Lead										•	
	2135.87	Groundflex® (10m) Sensor for use only with Model 6474										•	
	2135.92	Replacement – (1) Groundflex® Sensor (5 m w/ 16 m black cable) for use with Model 6474										•	

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GROUND RESISTANCE TESTERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	2135.93	Cable - Replacement USB charger cable w/ wall plug	•	•									
	2138.54	Continuity Probe											•
	2141.50	Case - Replacement, ABS w/ slot					•	•					
	2141.51	Calibration Loop - 5 Ohm Field Test Loop					•	•	•				
	2141.52	Case - Replacement, ABS w/ slot for Models 6418							•				
	2153.06	AC Current Probe Model MN72										•	
	2960.21	Replacement 9.6 V Rechargeable Battery Pack								•	•		
	5000.01	Green replacement wire (30 ft hand-tied) for ground resistance tester kits			•	•				•	•	•	
	5000.02	Red replacement wire (500 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.03	Red replacement wire (300 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.04	Red replacement wire (150 ft) on reel for ground resistance tester kits	•	•	•	•				•	•		•
	5000.05	Blue replacement wire (500 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.06	Blue replacement wire (300 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.07	Blue replacement wire (150 ft) on reel for ground resistance tester kits	•	•	•	•				•	•		
	5000.08	Green replacement wire (100 ft hand-tied) for ground resistance tester kits	•	•	•	•				•	•	•	
	5000.09	Black replacement wire (100 ft hand-tied) for ground resistance tester kits	•	•	•	•				•	•	•	

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AEMC® INSTRUMENTS

GROUND RESISTANCE TESTERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	5000.10	Set of (5) replacement screw-on spaded lugs for ground resistance tester kits			•	•				•	•	•	
	5000.13	Power adapter 110/240 V and power cord 120 V US								•	•		
	5000.14	Power cord 120 V	•	•	•	•				•	•	•	
	5000.18	Empty replacement reel for ground kits *(holds up to 500 ft of wire)*	•	•	•	•				•	•	•	
	5000.32	Power cord 220 V	•	•	•	•				•	•	•	
	5000.34	Lead - Set of (2), 5 ft Color-coded *(red/blue)* leads for use with AEMC® Ground Tester Reels incorporating banana jack input	•	•	•	•				•	•	•	
	5000.57	Power adapter, 24 VDC charger *(vehicle use)*								•	•	•	
	5000.64	Spindle - replacement for the 150 ft ground kit reels			•	•				•	•	•	•
	5000.65	Spindle - replacement for 300 & 500 ft ground kit reels			•	•				•	•		
	5000.74	Ground resistance calibration checker - 5/25 Ω								•	•		
	5000.92	Calibration Checker	•	•									
	5000.97	Probe - black test probe {Rated 1000 V CAT IV, 15 A, UL V2}											•
	5100.19	Reel - Empty Wire Reel *(Holds up to 150 ft of wire)*	•	•	•	•				•	•	•	•

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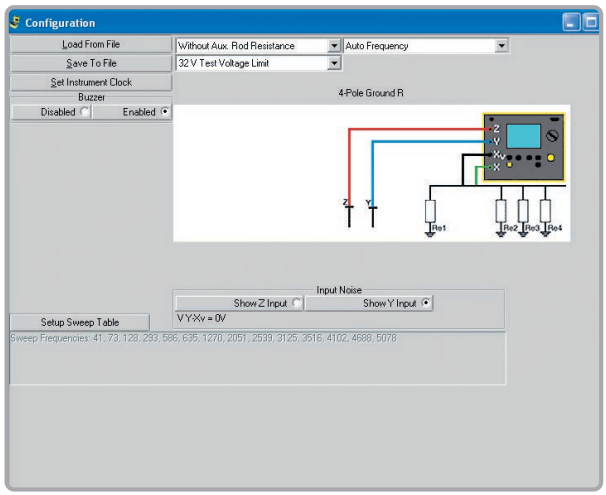
DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

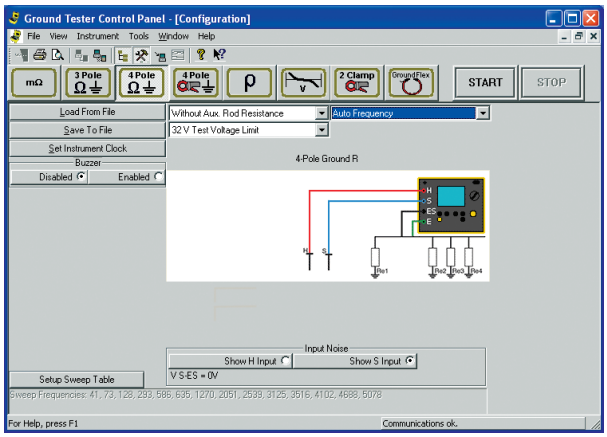
DataView® software, user manual and quick start guide are included in the USB Drive

Configure all functions:

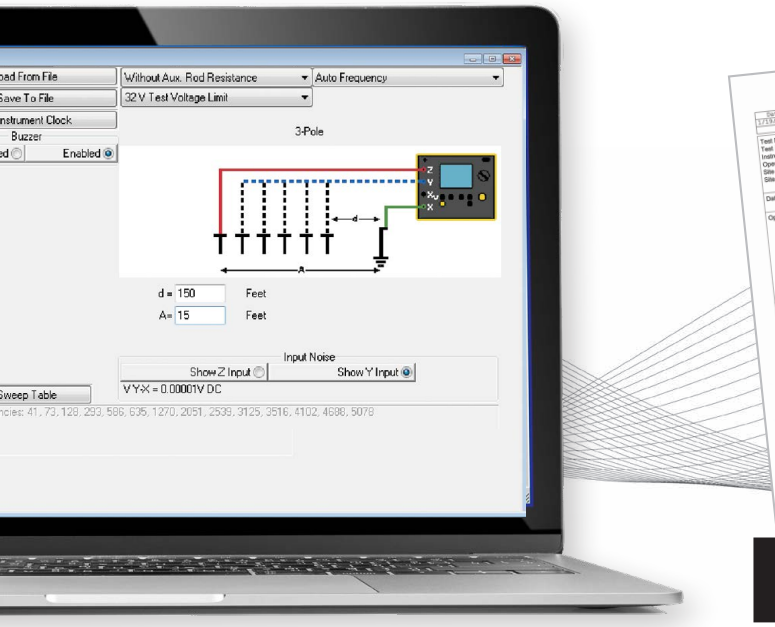
- Capture, download, display and analyze real-time data on your PC
- Upload stored test results to your PC
- Easily configure all functions and parameters specific to each instrument from your PC
- Create and store a complete library of configurations that can be uploaded to a device as needed
- Create custom views, templates, and reports to your exact needs
- Zoom in and out and pan through sections of graphs to analyze the data
- Perform measurements in real-time *(model dependent)*, download, display and analyze recorded and stored data
- Display Fall-of-Potential plots, tabular listings of test results, resistance vs. frequency plots, soil resistivity and point-to-point tests *(Models 6417, 6471, 6472, and 6474)*
- Print all test result reports using our standard report templates or create custom templates for branded reporting
- Free updates available on our website: ***www.aemc.com***

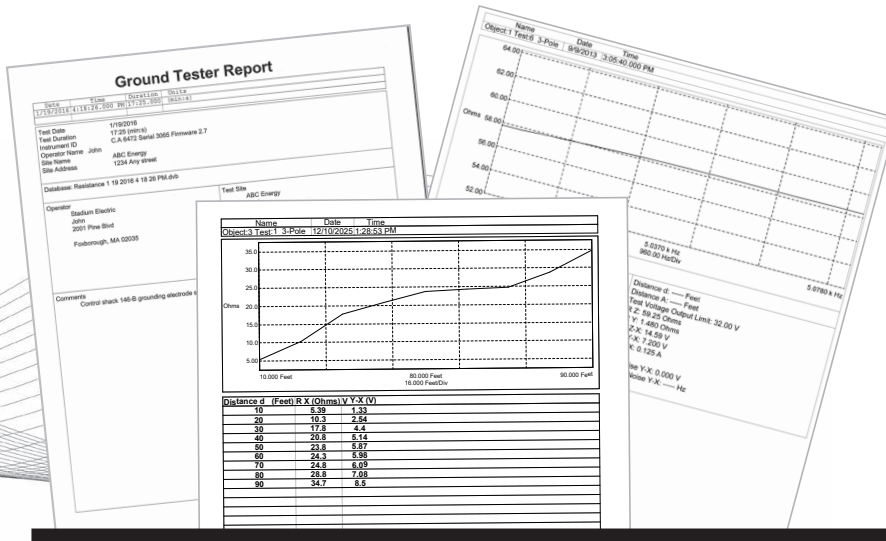


Configure and control ground resistance tests from your computer through the use of clear and easy-to-use tabbed dialog boxes.



All Ground Tester functions can be configured and tests can be initiated with graphical illustration of proper connections





Typical reports showing test measurement data

Technical Assistance (800) 343-1391

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LEAKAGE CURRENT METERS & PROBES



Why choose AEMC® Instruments Leakage Current Meters & Probes?

Our leakage current instruments measure the small AC currents that flow on ground conductors and equipment bonding paths, isolating insulation degradation, wiring faults, and ground-loop issues before they cause nuisance trips, shock, or fire. The instruments in this section are built for direct-contact work on energized feeders, branch circuits, and grounding systems, with the sensitivity needed to resolve milliamp- and microamp-level leakage on live equipment.

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

LEAKAGE CURRENT METERS & PROBES
LEAKAGE CURRENT PROBE
MODEL 2620

600 V CAT III

Trace insulation faults on energized feeders without a shutdown.



MODEL	2620
ELECTRICAL	
Measurement Type	AC leakage and differential current
Current Range	(0.5 mA to 4) A (0.5 to 400) A
Output Signal	1 mV/mA (4 A range) 1 mV/A (400 A range)
Typical Accuracy	(0.5 to 10) mA: 3 % of R ±1 mV (0.5 to 10) A: 0.5 % of R ±0.5 mV
Frequency Range	(48 to 1000) Hz
Load Impedance	1 MΩ min
MECHANICAL	
Jaw Opening	4.4 in (112 mm)
Dimensions	(11.2 × 6.9 × 1.8) in (285 × 175 × 45) mm
Weight	2.9 lb (1300 g)
SAFETY & INGRESS	
Safety Rating	600 V CAT III

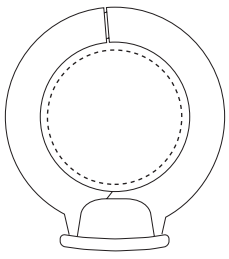
Consult factory for NIST Calibration prices.

FEATURES

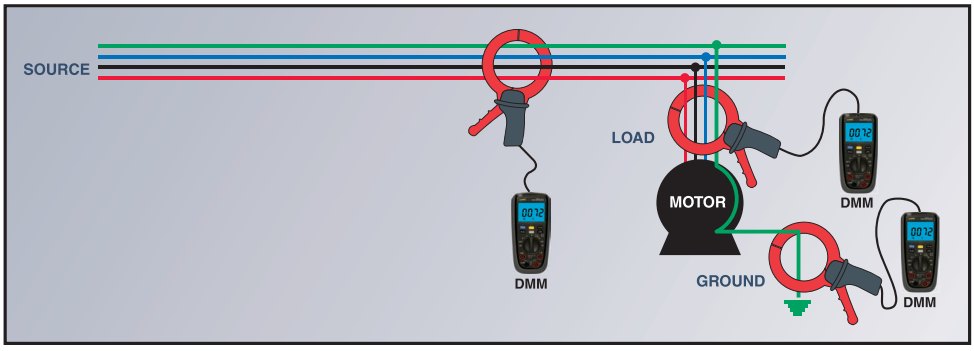
- **Leakage Sensitivity** — Resolves differential and leakage current from 500 µA on the 4 A range
- **Dual Range** — Switch-selectable 4 A (1 mV/mA) and 400 A (1 mV/A) outputs cover leakage and load currents in one probe
- **Large Jaw** — 4.4 in (112 mm) jaw opening accepts large single conductors, bundled phase sets, and bus
- **Universal DMM Output** — Standard 4 mm banana plugs pair the probe with any DMM on its mV or VAC range
- **Single- and Three-Phase Ready** — Measures vector-sum leakage on balanced or unbalanced systems regardless of phase relationship
- **Wide Frequency Response** — (48 to 1000) Hz bandwidth captures line fundamentals and low-order harmonic content
- **Field-Rated** — 600 V CAT III safety rating for work on energized distribution equipment

APPLICATIONS

- Locate insulation breakdown on energized motor feeders without tripping the circuit
- Verify grounding and bonding on switchgear lineups by measuring residual ground-return current
- Survey transformer neutrals and PDU branch circuits for unbalanced leakage during routine maintenance



Jaw Opening: 4.4 in (112 mm)
Conductor Size: 4.5 in (115 mm)



See pages 138 for Accessories/Replacements

CAT. #	DESCRIPTION
2125.52	Leakage Current Probe Model 2620 (4 A, 1 mV/mA & 400 A, 1 mV/A output)

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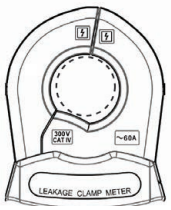
LEAKAGE CURRENT METERS & PROBES
TRMS CLAMP-ON LEAKAGE CURRENT METER

600 V CAT III

MODEL 566

Pinpoint ground-conductor leakage down to the microamp.





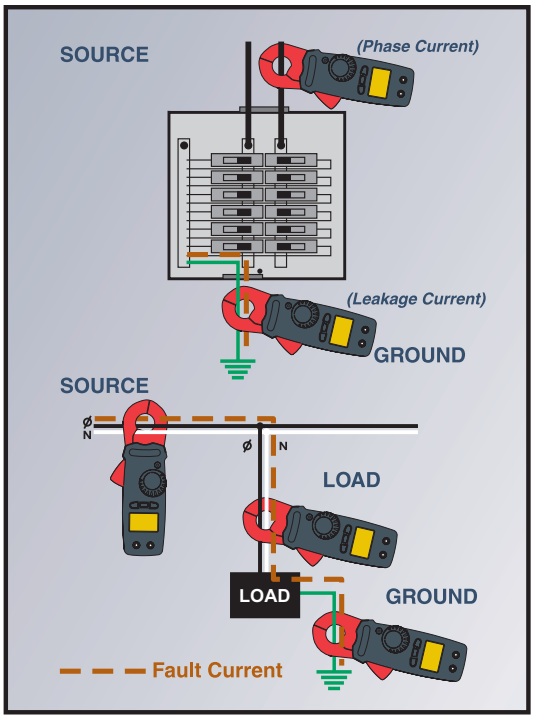
Jaw Opening:
0.91 in (23 mm)

FEATURES

- **High-Sensitivity mA Ranges** — Reads TRMS leakage current from .0006 mA (1 µA resolution) across 6 mA, 60 mA, and 600 mA ranges
- **Load Current Capability** — Auto-ranging 6 A and 60 A ranges extend the meter beyond pure leakage functions
- **Multi-Function Meter** — Measures VAC and VDC to 600 V, resistance to 600 kΩ, frequency, and audible continuity
- **Low-Pass Filter** — Isolates the 50/60 Hz fundamental from harmonic content to reveal true fundamental leakage
- **Measurement Support** — Zero, PEAK, and data hold functions simplify relative, peak, and single-handed readings
- **Compact Jaw** — 0.91 in (23 mm) jaw fits around ground conductors and individual branch conductors
- **Field-Rated** — 600 V CAT III safety rating
- **Long Runtime** — Backlit LCD and two AAA batteries deliver approximately 40 h of typical AC runtime

MODEL	566
ELECTRICAL	
AC Current (mA Range)	(6 / 60 / 600) mA, auto-ranging; 1 µA best resolution
AC Current (A Range)	(6 / 60) A, auto-ranging
Current Accuracy (typical, 50/60 Hz)	± 1.0 % of Reading ± 8 cts
AC / DC Voltage	(60 / 600) V ±1.0 % ± 3 cts (VAC) / ± 2 cts (VDC)
Resistance	600 Ω to 600 kΩ ± 1.0 % ± 2 cts
Frequency / Bandwidth	(48 to 65) Hz fundamental; accuracy specified to 500 Hz
Filter	Low-pass filter isolates 50/60 Hz fundamental
Continuity	Audible buzzer, < 45 Ω threshold
DISPLAY & POWER	
Display	6000-count backlit LCD
Power	(2) AAA; ~ 40 h typical AC runtime
Jaw Opening	0.91 in (23 mm)
SAFETY	
Safety Rating	600 V CAT III

Consult factory for NIST Calibration prices.



APPLICATIONS

- Verify ground-conductor leakage on single- and three-phase branch circuits during annual electrical maintenance
- Troubleshoot nuisance GFCI and RCD trips by measuring vector-sum leakage across a conductor bundle
- Commission equipment grounding in data centers, medical suites, PDUs, and industrial control panels

PRODUCT INCLUDES

Soft carrying case, (2) color-coded *(red/black)* 5 ft test leads, (2) AAA (LR03) batteries and user manual.



See pages 138 for Accessories/Replacements

CAT. #	DESCRIPTION
2139.83	TRMS Clamp-on Leakage Current Meter Model 566 (6/60/600 mA, 6/60 A, 600 VAC/DC, Ohms, Continuity)

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LEAKAGE CURRENT METERS & PROBES

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	566	2620
	1017.45	Adapter – 4 mm Non-Insulated For Safety Leads		•
	2117.73	Pouch – Replacement Dimensions: (7 × 8.5 × 2) in	•	
	2121.05	AC Line Splitter Model ALS-1	•	
	2133.72	Small Classic Tool Bag for field use 12 Exterior and 14 Interior pockets Dimensions: (13.0 × 9.8 × 9.5) in		•
	2154.74	Lead – Replacement Set of (2) Needle Tip Color-coded (red/black) w/ 4 mm right-angle Plug {600 V CAT IV w/ shield on Needle Tip, 1000 V CAT II w/o Shield}	•	



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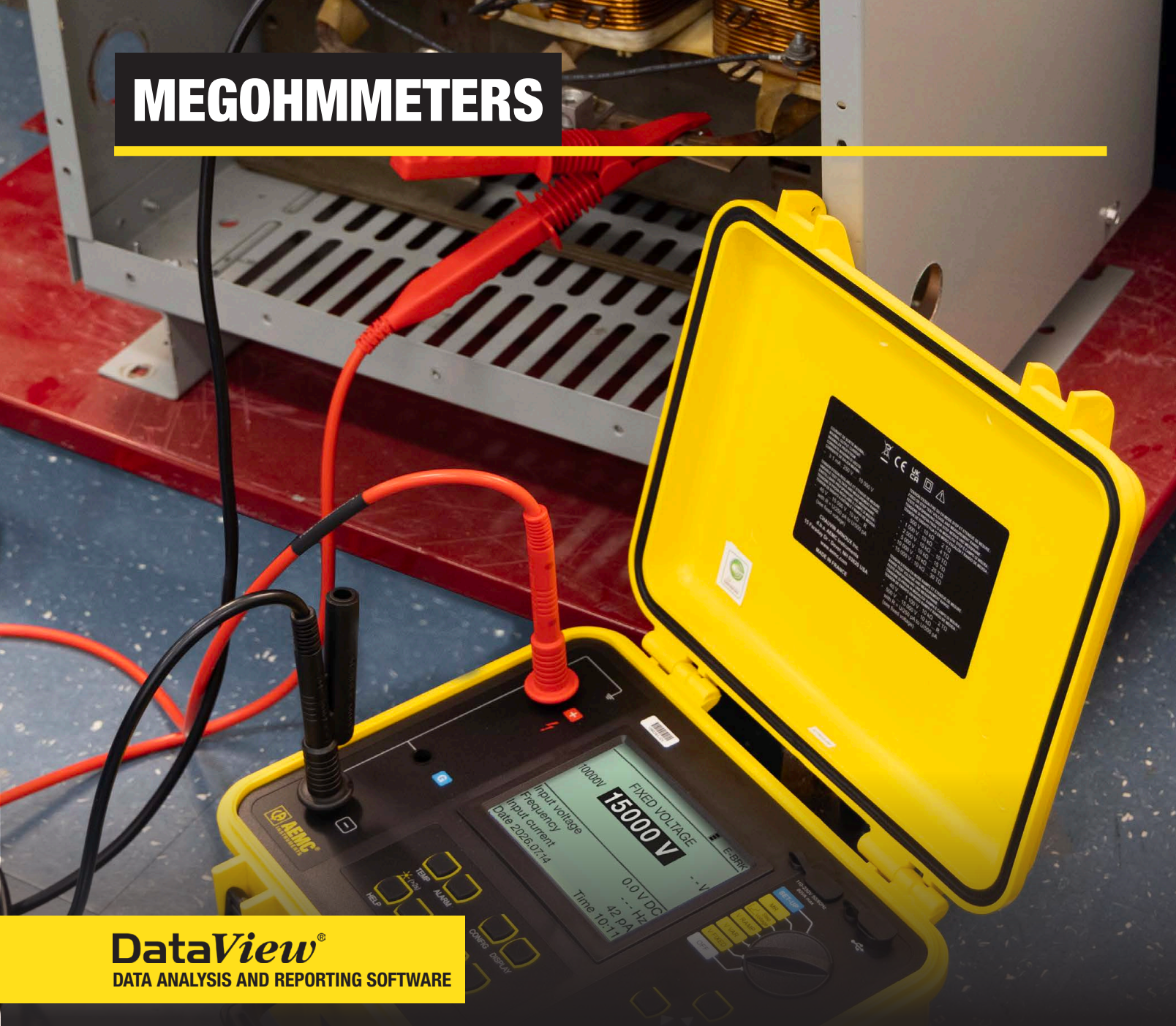
AEMC® INSTRUMENTS

MEGOHMMETERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Megohmmeters?

We know it's essential for you to properly determine the condition of the insulation on wire and motor windings to prevent damage of expensive equipment and unplanned shutdowns as well as ensure personal safety. That's why we offer the widest range of Megohmmeters with test voltages from 10 V to 15 kV *(model dependent)*, capable of measuring insulation resistances from 1 MΩ to 30 TΩ. These rugged, weather resistant meters are accurate, reliable and built to perform. Routinely using a Megohmmeter to check both new installations and as a maintenance program helps to ensure your circuits are safe. AEMC® Instruments Megohmmeters perform spot, timed, step voltage, and ramp voltage testing to measure resistance, Dielectric Absorption Ratio (DAR), Polarization Index (PI) and Dielectric Discharge (DD).

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

MEGOHMMETERS
1000 V HAND-CRANKED
MODEL 6503

IP 54 | 300 V CAT III | CE

Quickly validate insulation integrity on wiring rated at 1000 V or less.



No Batteries Required!

FEATURES

- Hand-crank powered Megohmmeter for insulation testing in locations where batteries or line power are unavailable, including flood-damaged facilities and remote sites
- Guard terminal support allows surface leakage currents to be bypassed during insulation testing, improving measurement accuracy on contaminated, long, or moisture-affected insulation systems
- Voltage presence indication before, during, and after testing helps verify that the circuit is safe to touch
- Wide, direct-reading analog scale allows fast interpretation of insulation condition without complex menu navigation
- Designed with integrated safety protections, including measurement category ratings up to 600 V CAT II / 300 V CAT III and internal fuse protection, to safeguard the operator and the instrument during insulation and voltage testing



MODEL	6503
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	1000 V
Test Voltage Options	(250,500,1000) V
Maximum Resistance Measurement (1)	5 GΩ
Typical Accuracy	± 2.5 % of scale
Timer	N/A
PI / DAR	N/A
Alarms	N/A
Guard Lead	Yes
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Voltage	600 VAC
Resistance	N/A
Continuity	N/A
Lead Compensation	N/A
Capacitance	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	N/A
Bluetooth®	N/A
GENERAL	
Display	Analog movement
Power Source	Hand-crank generator
SAFETY & ENVIRONMENT	
CAT Rating	300 V CAT III
IP Rating *(Closed lid)*	IP54
RECOMMENDED USES	
Cable and Wire ≤ 600 V	Yes
Communications Wiring and Components	N/A
Low Voltage Motors < 480 V	N/A
Low Voltage Transformers	N/A
ESD Flooring, Surfaces and Components	N/A

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

PRODUCT INCLUDES

CAT. #2126.52 MEGOHMMETER MODEL 6503

Soft carrying case, (3) color-coded *(red/black/blue)* leads and alligator clips, black test probe and a user manual.



See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2126.52	Megohmmeter Model 6503 (hand-cranked, (250, 500, 1000) V)

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MEGOHMMETERS 1000 V DIGITAL

MODEL 6527

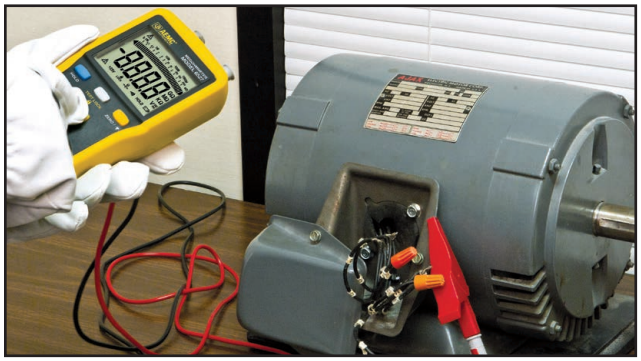
Insulation tester with DMM functions specially designed for testing wiring, small motors and other equipment.



TRUE MegOhmmeter®

FEATURES

- Hand-held digital insulation resistance tester with commonly used test voltages and features for routine maintenance testing wiring, cables, motors, and electrical equipment
- Large digital display with analog style bargraph provides fast visual interpretation of insulation condition
- Up to 4 GΩ of insulation resistance can be measured, allowing for insulation values to be trended for motors and transformers
- Automatic discharge of the circuit under test improves operator safety by removing stored energy after insulation measurements
- Designed with integrated safety protections, including 600 V CAT IV rating and internal fuse protection, to help safeguard the operator during testing



MODEL	6527
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	1000 V
Test Voltage Options	(250,500,1000) V
Maximum Resistance Measurement [1]	4 GΩ
Typical Accuracy	± 2 % ± 3 cts
Timer	3 min *(LOCK function)*
PI / DAR	N/A
Alarms	N/A
Guard Lead	N/A
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Voltage	1000 VDC / 600 VAC
Resistance	400 kΩ
Continuity	400 Ω
Lead Compensation	Yes
Capacitance	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	N/A
Bluetooth®	N/A
GENERAL	
Display	Backlit digital with bargraph
Power Source	(6) AA alkaline batteries
SAFETY & ENVIRONMENT	
CAT Rating	600 V CAT IV
IP Rating	IP51
RECOMMENDED USES	
Cable and Wire ≤ 600 V	Yes
Communications Wiring and Components	N/A
Low Voltage Motors < 480 V	Yes
Low Voltage Transformers	Yes
ESD Flooring, Surfaces and Components	N/A

Consult factory for NIST Calibration prices.

[1] Specific to test voltage

PRODUCT INCLUDES

CAT. #2126.53 MEGOHMMETER MODEL 6527

Soft carrying case, set of (2) 5 ft color-coded test leads with alligator clips, (1) black test probe and user manual.



See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2126.53	Megohmmeter Model 6527 (Digital (250, 500, 1000) V, Continuity, 400 kΩ, V)

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MEGOHMMETERS
1000 V DIGITAL & MULTI-FUNCTION HAND-HELD
MODEL 6529

IP 40 (with leads connected) | 600 V CAT IV | CE | ETL

Insulation tester ideal for maintenance on electrical equipment such as motors, cables, and more.



TRUE MegOhmmeter®

US Design Patent US D890,617 S

MODEL	6529
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	1000 V
Test Voltage Options	(50, 100, 250, 500, 1000) V
Maximum Resistance Measurement (1)	10 GΩ
Typical Accuracy	± 3 % ± 3 counts
Timer	(0 to 40) min
PI / DAR	Yes
Alarms	Yes
Guard Lead	N/A
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Voltage	700 VAC/DC
Resistance	400 KΩ
Continuity	40 Ω
Lead Compensation	Yes
Capacitance	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	N/A
Bluetooth®	N/A
GENERAL	
Display	Backlit digital
Power Source	(6) AA alkaline batteries
SAFETY & ENVIRONMENT	
CAT Rating	600 V CAT IV
IP Rating	IP40
RECOMMENDED USES	
Cable and Wire ≤ 600 V	Yes
Communications Wiring and Components	N/A
Low Voltage Motors < 480 V	Yes
Low Voltage Transformers	Yes
ESD Flooring, Surfaces and Components	N/A

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

FEATURES

- Hand-held Megohmmeter designed for insulation resistance testing and diagnostic evaluation of cables, switchgear components, and electrical equipment in maintenance and commissioning applications
- Ergonomic hand-held form with backlit digital display provides clear visibility of insulation behavior in low-light and industrial environments
- 10 GΩ of insulation resistance is measurable when testing at 1 kV
- Differential Mode Resistance (DMR) compares successive measurements to a stored reference value, providing fast pass/fail indication without manual calculation
- Programmable alarm functions provide immediate visual indication when insulation values fall outside user-defined limits, supporting faster pass/fail decisions
- Designed with integrated safety protections, including 600 V CAT IV rating and internal fuse protection, to help safeguard the operator during testing



PRODUCTS INCLUDE

CAT. #2126.55 MEGOHMMETER MODEL 6529

Includes soft carrying case, set of (2) 5 ft color-coded *(red/black)* silicone leads and alligator clips, (2) color-coded *(red/black)* test probes, (6) AA batteries and user manual.

See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2126.55	Megohmmeter Model 6529 (Digital, (50, 100, 250, 500) V, 1 kV, 420 k-Ohm, Continuity, Alarm, Timer & PI/DAR)

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AEMC® INSTRUMENTS

MEGOHMMETERS
DIGITAL & MULTI-FUNCTION HAND-HELD
MODELS 6522 & 6526

IP 54 | 600 V CAT IV | (6526 only)

Ideal for testing cables, small motors, pumps, transformers and industrial equipment.



6522



6526

DataView® (6526 only)

MODELS	6522	6526
INSULATION RESISTANCE TESTING FUNCTIONS		
Maximum Test Voltage	1000 V	
Test Voltage Options	(250, 500, 1000) V	(50, 100, 250, 500, 1000) V
Maximum Resistance Measurement (1)	40 GΩ	200 GΩ
Typical Accuracy	± 3 % ± 3 cts	
Timer	(0 to 40) min	
PI / DAR	N/A	Yes
Alarms	N/A	Yes
Guard Lead	N/A	
Remote Probe Compatible	N/A	Yes
ELECTRICAL - MULTIMETER FUNCTIONS		
Voltage	700 VAC/DC	
Resistance	N/A	1000 kΩ
Continuity	10 Ω	10, 100 Ω
Lead Compensation	Yes	
Capacitance	N/A	.1 n to 10 µF
DATA STORAGE & REPORTING		
Data Storage and DataView® Reporting	N/A	Yes
Bluetooth®	N/A	Yes
GENERAL		
Display	Backlit digital with bargraph	
Power Source	(6) AA alkaline batteries	
SAFETY & ENVIRONMENT		
CAT Rating	600 V CAT IV	
IP Rating	IP54	
RECOMMENDED USES		
Cable and Wire ≤ 600 V	Yes	
Communications Wiring and Components	N/A	
Low Voltage Motors < 480 V	N/A	Yes
Low Voltage Transformers	Yes	
ESD Flooring, Surfaces and Components	N/A	

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

FEATURES

- Advanced diagnostic hand-held Megohmmeter designed for insulation testing and general purpose measurements on motors, wiring and transformers
- Easy to use navigation functions with High-visibility digital display with analog bar graph and back lighting, remote probe and magnetic mount allow for repeatable measurements in industrial environments
- Diagnostic testing functions including PI and DAR support insulation condition assessment beyond single-value resistance readings *(Model 6526 only)*
- Model 6526 adds capacitance measurement, data storage, and Bluetooth® communication with DataView® software for deeper diagnostics and reporting, designed with integrated safety protections, including 600 V CAT IV rating and internal fuse protection, to help safeguard the operator during testing

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

See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2155.51	Megohmmeter Model 6522 (Digital with Analog Bargraph, (250, 500, 1000) V, Continuity, V)
2155.53	Megohmmeter Model 6526 (Digital with Analog Bargraph, Alarm, (50, 100, 250, 500, 1000) V, Ohm, Continuity, V, kΩ, Capacitance, Memory, Bluetooth® with DataView® software)

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MEGOHMMETERS
DIGITAL & MULTI-FUNCTION HAND-HELD

MODELS 6534 & 6536

IP 54 | 600 V CAT IV | (6534 only)

6534 – ideal for insulation measurements on communication cables, Ethernet cables and other low voltage DC wiring.

6536 – ideal for special applications in the aerospace and defense sectors and for ESD testing where specific test voltages are required.



6534



6536

DataView® (6534 only)

MODELS	6534	6536
INSULATION RESISTANCE TESTING FUNCTIONS		
Maximum Test Voltage	500 V	100 V
Test Voltage Options	(10, 25, 100, 250, 500) V	(10 to 100) V Variable
Maximum Resistance Measurement (1)	50 GΩ	N/A
Typical Accuracy	± 3 % rdg ± 3 cts	
Timer	(0 to 40) min	
PI / DAR	N/A	
Alarms	Yes	N/A
Guard Lead	N/A	
Remote Probe Compatible	Yes	N/A
ELECTRICAL - MULTIMETER FUNCTIONS		
Voltage	700 VAC/DC	
Resistance	1000 kΩ	
Continuity	100 Ω	
Lead Compensation	Yes	
Capacitance	N/A	
DATA STORAGE & REPORTING		
Data Storage and DataView® Reporting	Yes	N/A
Bluetooth®	Yes	N/A
GENERAL		
Display	Backlit digital with bargraph	
Power Source	(6) AA alkaline batteries	
SAFETY & ENVIRONMENT		
CAT Rating	600 V CAT IV	
IP Rating	IP54	
RECOMMENDED USES		
Cable and Wire ≤ 600 V	N/A	
Communications Wiring and Components	Yes	
Low Voltage Motors < 480 V	Yes	N/A
Low Voltage Transformers	Yes	N/A
ESD Flooring, Surfaces and Components	Yes	

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

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

FEATURES

- Specialty hand-held Megohmmeters designed for low-voltage and application-specific insulation testing, including communications cabling, control wiring, aerospace systems, and ESD-sensitive installations
- Compact hand-held design with high-visibility digital display and analog bar graph allows precise evaluation of insulation behavior at low test voltages where small changes matter
- Selectable and variable low-voltage insulation testing capability supports testing of sensitive circuits and materials that cannot tolerate standard Megohmmeter voltages
- Visual alarm functions provide immediate visual indication of insulation values outside acceptable limits, supporting faster troubleshooting and verification
- Designed with integrated safety protections, including 600 V CAT IV rating and internal fuse protection, to help safeguard the operator during testing

See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2155.55	Megohmmeter Model 6534 (Digital with Analog Bargraph, Alarm, (10, 25, 100, 250, 500) V, Ohm, Continuity, V, kΩ, Memory, Bluetooth® with DataView® software)
2155.56	Megohmmeter Model 6536 (Digital with Analog Bargraph, Alarm, Variable (10 to 100) V, Ohm, Continuity, V, kΩ)

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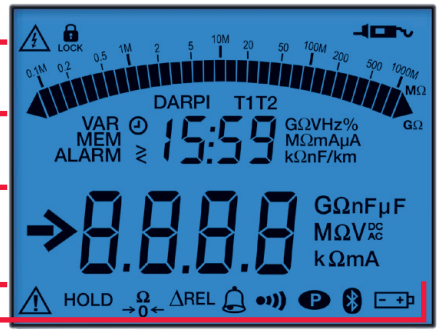
MEGOHMMETERS
DIGITAL & MULTI-FUNCTION HAND-HELD
MODELS 6522, 6526, 6534 & 6536

PANELS & FUNCTIONAL DISPLAYS



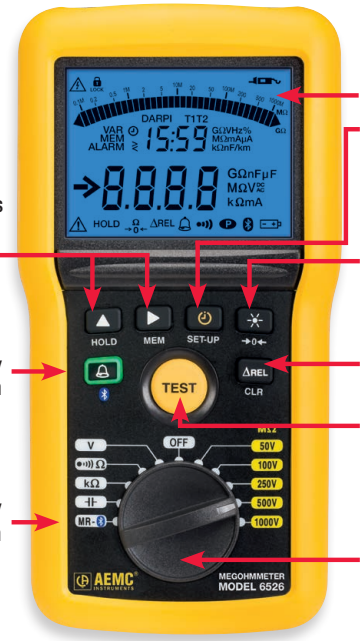
TOP PANEL



FRONT PANEL

Navigation Buttons:
- Display instrument information
- Turn buzzer ON/OFF
- Turn power save ON/OFF
- Program test time
- Select displayed parameters
- Program alarm set points

Secondary Function:
- Hold
- Data storage



PRODUCT INCLUDES

CAT. #2155.51 MEGOHMMETER MODEL 6522
CAT. #2155.56 MEGOHMMETER MODEL 6536
Soft carrying case, (2) 5 ft color-coded *(red/black)* leads, (2) color-coded *(red/black)* alligator clips, (1) black test probe, (2) color-coded *(red/black)* grip probes *(Model 6536 only)*, (6) AA batteries and user manual.

CAT. #2155.53 MEGOHMMETER MODEL 6526 ***(SHOWN)***
CAT. #2155.55 MEGOHMMETER MODEL 6534
Soft carrying case, (2) 5 ft color-coded *(red/black)* leads, (2) color-coded *(red/black)* alligator clips, (1) black test probe, (2) color-coded *(red/black)* grip probes *(Model 6534 only)* (6) AA batteries, quick start guide, USB drive with DataView® software and user manual.





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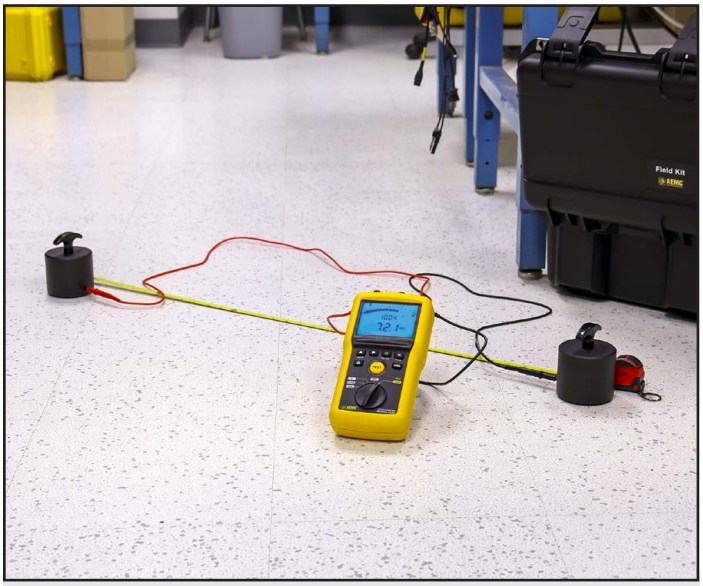
MEGOHMMETERS
DIGITAL & MULTI-FUNCTION HAND-HELD

IP 54 | 600 V CAT IV | CE | ETL

MODEL 6536 ESD FLOOR KIT

Detect, monitor, and measure static electricity and voltage generation in workplace environments to ensure compliance with leading ESD standards.





ELECTROSTATIC DISCHARGE (ESD) FLOOR TEST KIT

Sparking is an obvious concern in areas where flammable gas or liquid is present and these areas require strict safety measures to prevent static electricity from build-up and discharge. ESD events can also frequently occur without a visible or audible spark and can severely damage sensitive electronic components and assemblies. Some components can be damaged by discharges as little as 30 V. These invisible forms of ESD can cause labs and production manufacturing device failures and other forms of degradation that may affect reliability and performance of sensitive surface mounted electronics.

FEATURES

- Complete Electrostatic Discharge (ESD) Floor Compliance Test Kit for verifying point-to-ground and point-to-point resistance of static dissipative and conductive flooring systems in accordance with ANSI/ESD, ASTM, IEC, and MIL standards
- Includes Model 6536 100 V Megohmmeter with variable voltage setting, Megohmmeter can supply up to 100 V of test voltage through included 5 lb weights for testing ESD surfaces
- Measure up to 20 GΩ (2.0×10^{10} Ω) of ESD resistance with high accuracy
- Long test leads and alligator clips included for measuring resistance across grounding straps to floors or other surfaces
- Model 6536 also performs continuity tests to verify connections and measure voltages up to 700 VAC/DC
- Designed for use in electronics manufacturing, laboratories, clean rooms, and other ESD-controlled environments where static buildup can damage sensitive components or create ignition hazards
- Supports compliance with major standards including ANSI/ESD STM 7.1, ANSI/ESD STM 97.1, ANSI/ESD STM 11.11, ASTM F150, IEC 61340-4-1, and MIL-STD-1686, making it suitable for industrial, commercial, and military ESD control programs

PRODUCT INCLUDES

CAT. #2155.57 MEGOHMMETER MODEL 6536 ESD FLOOR KIT

Field case, (2) 5 ft color-coded *(red/black)* leads, (2) color-coded *(red/black)* alligator clips, (1) black test probe, (2) color-coded *(red/black)* grip probes, (2) 5 lb weights with conductive rubber bottom pad, (2) 4 mm non-insulated adapters, (6) AA batteries, and user manual.



See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2155.57	Megohmmeter Model 6536 ESD Floor Kit (Meter, set of (2) 5 lb weights and carrying case)

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MEGOHMMETERS 1000 V DIGITAL/ANALOG

MODEL 1060

IP 54 | 600 V CAT III | CE

Test insulation on cables, transformers, motors and wiring installations.



AUTOMATIC REPORT GENERATION

DataView®

MODEL	1060
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	1000 V
Test Voltage Options	(50, 100, 250, 500, 1000) V
Maximum Resistance Measurement (1)	4 TΩ
Typical Accuracy	± 5 %
Timer	Yes
PI / DAR	Yes
Dielectric Discharge (DD)	N/A
Post Test Capacitance Measurement	Yes
Alarms	Yes
Step Voltage	N/A
Ramp Voltage	N/A
Guard Lead	Yes
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Resistance	Yes
Continuity	Yes
Lead Compensation	Yes
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	Yes
Data Connection	RS-232 to USB
GENERAL	
Display	Backlit digital with bargraph
Power Source	Ni-MH rechargeable battery and line power
SAFETY & ENVIRONMENT	
CAT Rating	600 V CAT III
IP Rating *(Closed lid)*	IP54
RECOMMENDED USES	
Cable Terminations and Splices	Yes
Bus Insulation	Yes
Control Wiring	Yes
Medium Voltage Cables	N/A
Low Voltage Motors	Yes
Medium Voltage Large Motors	N/A
Instrument Transformers	Yes
Medium Voltage Dry and Liquid Transformers	N/A

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

FEATURES

- Portable diagnostic Megohmmeter designed for insulation testing and condition assessment of motors, generators, transformers, cables, and electrical installations in maintenance and commissioning applications
- Rugged hard-case design with large, backlit dual display and analog bargraph improves visibility of insulation conditions and trends during extended tests in industrial environments
- Up to 4 TΩ of insulation resistance is measurable at a test voltage of 1000 V enabling meaningful insulation evaluation of modern, high-quality insulation systems where lower-range instruments cannot display a value
- Automated diagnostic functions including PI, DAR, and timed testing, paired with DataView® software, provide deeper insight into insulation condition and enable trending and post-test reporting
- Designed with integrated safety protections, including 600 V CAT III rating, automatic test inhibition on live circuits, and internal fuse protection, to help safeguard the operator during testing

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

PRODUCT INCLUDES

CAT. #2130.03 MEGOHMMETER MODEL 1060

Detachable accessory pouch, (2) 5 ft color-coded *(red/blue)* leads, (1) black shielded lead, (3) color-coded *(red/black/blue)* alligator clips, (1) black test probe, (1) 6 ft null model cable, (1) RS-232 to USB adapter, power cord, rechargeable NiMH battery, spare fuses, and a USB drive with DataView® software and user manual.



See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2130.03	Megohmmeter Model 1060 (Digital, with Analog Bargraph, Backlight, Alarm, Timer, (50, 100, 250, 500, 1000) V, Auto DAR/PI, Resistance, Continuity, DataView® software, 128 kB Memory)

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MEGOHMMETERS
5000 V DIGITAL/ANALOG

MODEL 6505

Easy-to-use diagnostic megohmmeter.



TRUE MegOhmmeter®

MODEL	6505
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	5000 V
Test Voltage Options	(500, 1000, 2500, 5000) V / Variable Voltage (40 to 5000) V
Maximum Resistance Measurement (1)	10 TΩ
Typical Accuracy	± 5 %
Timer	Elapsed test time only
PI / DAR	Yes
Dielectric Discharge (DD)	N/A
Post Test Capacitance Measurement	Yes
Alarms	N/A
Step Voltage	N/A
Ramp Voltage	N/A
Guard Lead	Yes
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Resistance	N/A
Continuity	N/A
Lead Compensation	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	N/A
Data Connection	N/A
GENERAL	
Display	Backlit digital with bargraph
Power Source	Ni-MH rechargeable battery and line power
SAFETY & ENVIRONMENT	
CAT Rating	1000 V CAT III
IP Rating *(Closed lid)*	IP53
RECOMMENDED USES	
Cable Terminations and Splices	Yes
Bus Insulation	Yes
Control Wiring	N/A
Medium Voltage Cables	Yes
Low Voltage Motors	Yes
Medium Voltage Large Motors	N/A
Instrument Transformers	N/A
Medium Voltage Dry and Liquid Transformers	N/A

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

FEATURES

- Straightforward hard-case Megohmmeter designed for basic insulation resistance testing of cables, wiring, and switchgear components where simplicity and reliability are the priority
- Fixed, commonly used insulation test voltages with simple rotary selection reduce setup time and minimize the risk of incorrect test settings in the field
- Large, easy-to-read analog display provides immediate visual indication of insulation condition without menus or configuration steps
- AC line-powered or battery operation gives operators flexibility when working in the field
- Designed with integrated safety protections, including appropriate measurement category ratings, discharge circuit and internal fuse protection, to help safeguard the operator during testing

PRODUCT INCLUDES

CAT. #2130.18 MEGOHMMETER MODEL 6505

Extra large classic tool bag, set of (3) 10 ft color-coded leads with clips *(red/black/blue)*, (1) blue guard terminal jumper lead, fuse, rechargeable battery pack *(installed)*, power cord, and user manual.



See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, (500, 1000, 2500, 5000) V, Auto DAR/PI)

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MEGOHMMETERS 5000 V DIGITAL/ANALOG

MODELS 5050 & 60

IP 53 | 1000 V CAT III | CE

Designed with the highest level of built-in safety features.



5050 5060

DataView® (5060 only)

FEATURES

- 5 kV diagnostic Megohmmeters designed for insulation testing and condition assessment of motors, generators, transformers, cables, and electrical equipment in maintenance and commissioning applications
- Rugged portable enclosure with large digital display and analog bargraph supports clear interpretation of insulation behavior during timed and long-duration tests in industrial environments
- Model 5060 adds internal data storage and DataView® software compatibility, enabling result trending, documentation, and report generation
- Advanced diagnostic test functions including PI, DAR, and Dielectric Discharge (DD) provide insight into insulation condition, moisture ingress, and aging beyond single-point resistance measurements
- Designed with integrated safety protections, CAT III rating, automatic discharge of the circuit under test, robust safety leads and internal fuse protection, to help safeguard the operator during testing

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

MODELS	5050	5060
INSULATION RESISTANCE TESTING FUNCTIONS		
Maximum Test Voltage	5100 V	
Test Voltage Options	(500, 1000, 2500, 5000) V / Variable Voltage (40 to 5100) V	
Maximum Resistance Measurement (1)	10 TΩ	
Typical Accuracy	± 5 %	
Timer	Yes	
PI / DAR	Yes	
Dielectric Discharge (DD)	Yes	
Post Test Capacitance Measurement	Yes	
Alarms	Yes	
Step Voltage	N/A	
Ramp Voltage	N/A	
Guard Lead	Yes	
Remote Probe Compatible	N/A	
ELECTRICAL - MULTIMETER FUNCTIONS		
Resistance	N/A	
Continuity	N/A	
Lead Compensation	N/A	
DATA STORAGE & REPORTING		
Data Storage and DataView® Reporting	N/A	Yes
Data Connection	N/A	RS-232 to USB
GENERAL		
Display	Backlit digital with bargraph	
Power Source	Ni-MH rechargeable battery and line power	
SAFETY & ENVIRONMENT		
CAT Rating	1000 V CAT III	
IP Rating *(Closed lid)*	IP53	
RECOMMENDED USES		
Cable Terminations and Splices	Yes	
Bus Insulation	Yes	
Control Wiring	N/A	
Medium Voltage Cables	Yes	
Low Voltage Motors	Yes	
Medium Voltage Large Motors	N/A	
Instrument Transformers	Yes	
Medium Voltage Dry and Liquid Transformers	Yes	

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

PRODUCT INCLUDES

CAT. #2130.20 MEGOHMMETER MODEL 5050
CAT. #2130.21 MEGOHMMETER MODEL 5060
Extra large classic tool bag, set of (3) 10 ft safety leads *(red/black/blue)* with clips, (1) guard terminal jumper lead *(blue)*, power cord, rechargeable battery pack, and user manual.



CAT. #	DESCRIPTION
2130.20	Megohmmeter Model 5050 (Digital, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, Auto DAR/PI/DD)
2130.21	Megohmmeter Model 5060 (Digital, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, Auto DAR/PI/DD, USB with DataView® Software)

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MEGOHMMETERS
5000 V DIGITAL/ANALOG
MODEL 5070

IP 53 | 1000 V CAT III | CE

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



AUTOMATIC REPORT GENERATION
DataView®

FEATURES

- Advanced Megohmmeter designed for insulation testing and detailed condition assessment of motors, generators, transformers, cables, and electrical systems in maintenance and commissioning applications
- Portable, field-ready enclosure with large, high-visibility digital display and analog bargraph allows operators to observe insulation resistance trends during advanced diagnostic testing
- Programmable step voltage testing capability allows controlled evaluation of insulation response under increasing stress, helping identify contamination, moisture ingress, and insulation degradation
- Internal memory and DataView® software compatibility enable result storage, trending, and professional report generation to support documentation and predictive maintenance programs
- Designed with integrated safety protections, CAT III rating, automatic discharge of the circuit under test, robust safety leads and internal fuse protection, to help safeguard the operator during testing

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

MODEL	5070
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	5100 V
Test Voltage Options	Fixed - (500, 1000, 2500, 5100) V Variable Voltage (40 to 5100) V
Maximum Resistance Measurement (1)	10 TΩ
Typical Accuracy	± 5 %
Timer	Yes
PI / DAR	Yes
Dielectric Discharge (DD)	Yes
Post Test Capacitance Measurement	Yes
Alarms	Yes
Step Voltage	Yes
Ramp Voltage	N/A
Guard Lead	Yes
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Resistance	N/A
Continuity	N/A
Lead Compensation	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	Yes
Data Connection	USB
GENERAL	
Display	Backlit graphical with bargraph
Power Source	Ni-MH rechargeable battery and line Power
SAFETY & ENVIRONMENT	
CAT Rating	1000 V CAT III
IP Rating *(Closed lid)*	IP53
RECOMMENDED USES	
Cable Terminations and Splices	Yes
Bus Insulation	Yes
Control Wiring	N/A
Medium Voltage Cables	Yes
Low Voltage Motors	Yes
Medium Voltage Large Motors	N/A
Instrument Transformers	Yes
Medium Voltage Dry and Liquid Transformers	Yes

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

PRODUCT INCLUDES

CAT. #2130.30 MEGOHMMETER MODEL 5070
Extra large tool bag, set of (3) 10 ft leads *(red/black/blue with clips)*, (1) guard terminal jumper lead *(blue)*, USB cable Type-B, power cord, rechargeable battery pack, and a USB drive with DataView® software and user manual.

See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2130.30	Megohmmeter Model 5070 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, StepV, Auto DAR/PI/DD, USB with DataView® software)

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MEGOHMMETERS
10,000 V/ 15,000 V DIGITAL
MODELS 6550 & 6555

Ideal for use on rotating machinery, transformers and cables operating at higher voltages.



6550



6555

DataView®

FEATURES

- High-voltage diagnostic Megohmmeters designed for insulation testing and condition assessment of large motors, generators, power transformers, switchgear, and high-voltage cable systems in industrial and utility environments
- Rugged hard-case platform with large, high-resolution digital display and analog bargraph supports clear interpretation of insulation behavior during long-duration and high-stress tests
- Advanced diagnostic test capabilities including step voltage, ramp voltage, PI, DAR, capacitance, and Dielectric Discharge (DD) enable detailed evaluation of insulation integrity, moisture ingress, and aging mechanisms
- Test sensitive insulation and components at high voltages with current limiting functions
- Internal memory and DataView® software compatibility support result storage, trending, and professional reporting to aid predictive maintenance and asset management programs
- Designed with integrated safety protections, including CAT III measurement category ratings, automatic test inhibition on live circuits, post test discharge, internal fuse protection, and robust safety leads to help safeguard the operator during high-energy testing

PRODUCT INCLUDES

CAT. #2130.31 MEGOHMMETER MODEL 6550
CAT. #2130.32 MEGOHMMETER MODEL 6555

Small classic tool bag, set of (3) 10 ft color-coded *(red/blue/black)* safety leads with clips, (1) jumper lead *(blue)*, optical USB cable, power cord, rechargeable NiMH batteries, and a USB drive with DataView® software and user manual.

MODELS	6550	6555
INSULATION RESISTANCE TESTING FUNCTIONS		
Maximum Test Voltage	10,000 V	15,000 V
Test Voltage Options	Fixed - (500, 1000, 2500, 5000, 10,000) V / 10 V increments (40 to 1000) V 100 V increments (1000 to 10,000) V	Fixed - (500, 1000, 2500, 5000, 10,000, 15,000) V / 10 V increments (40 to 1000) V 100 V increments (1000 to 15,000) V
Maximum Resistance Measurement [1]	25 TΩ	29 TΩ
Typical Accuracy	± 5 %	
Timer	Yes	
PI / DAR	Yes	
Dielectric Discharge (DD)	Yes	
Post Test Capacitance Measurement	Yes	
Alarms	Yes	
Step Voltage	Yes	
Ramp Voltage	Yes	
Guard Lead	Yes	
Remote Probe Compatible	N/A	
ELECTRICAL - MULTIMETER FUNCTIONS		
Resistance	N/A	
Continuity	N/A	
Lead Compensation	Yes	
DATA STORAGE & REPORTING		
Data Storage and DataView® Reporting	Yes	
Data Connection	Optical USB	
GENERAL		
Display	Backlit graphical display	
Power Source	Ni-MH rechargeable battery and line power	
SAFETY & ENVIRONMENT		
CAT Rating	1000 V CAT IV	
IP Rating *(Closed lid)*	IP54	
RECOMMENDED USES		
Cable Terminations and Splices	Yes	
Bus Insulation	Yes	
Control Wiring	Yes	
Medium Voltage Cables	Yes	
Low Voltage Motors	Yes	
Medium Voltage Large Motors	Yes	
Instrument Transformers	Yes	
Medium Voltage Dry and Liquid Transformers	Yes	

Consult factory for NIST Calibration prices.

[1] Specific to test voltage

CAT. #	DESCRIPTION
2130.31	Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, 10 kV, Ramp, Step V, Variable, Auto DAR/PI/DD, USB, with DataView® Software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, (10, 15) kV, Ramp, Step V, Variable, Auto DAR/PI/DD, DataView® software)

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	1017.45	Adapter – 4 mm Non-Insulated For Safety Leads							•							
	2117.73	Pouch – Replacement Dimensions: (7 × 8.5 × 2) in		•												
	2118.09	General Carrying Case Dimensions: (13 × 9.5 × 3) in		•	•	•	•	•	•							
	2119.02	Soft Carrying Pouch Dimensions: (7.75 × 9.25 × 2.75) in			•	•	•	•								
	2119.45	Cable – Replacement PC RS-232, DB9 F/F 6 ft Null Modem *(for units w/o USB port purchased before July 1, 2022)*								•			•	•		
	2119.56	Fuse, Set of (3), 0.1 A, 660 V, 20 kA, (6 × 32) mm								•					•	•
	2119.57	Fuse – One, 2.5 A, 1200 V, (8 × 50) mm								•						
	2119.59	Pouch – Replacement Dimensions: (8 × 10 × 2) in								•						
	2119.78	Lead – Replacement 1 ft Jumper Lead (5 kv)									•	•	•	•		
	2119.84	Fuse – Set of (3) 0.1 A, 380 V, (5 × 20) mm, 10 kA									•	•	•	•		
	2126.71	Case – Replacement Carrying Case Dimensions: (10.5 × 6.5 × 6) in	•													
	2133.72	Small Classic Tool Bag for field use – 12 Exterior and 14 Interior pockets Dimensions: (13.0 × 9.8 × 9.5) in													•	•
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 × 9 × 12) in									•	•	•	•		
	2133.76	Bag – Extra Large Carrying Bag w/ Rubber Bottom; Dimensions: (22.5 × 12.5 × 7.5) in									•	•	•	•		

Technical Assistance (800) 343-1391

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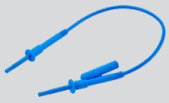
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	2135.41	Optical USB Cable													•	•
	2135.43	Inverter – 12 VDC to 120 VAC 200 Watt for Vehicle Use								•	•	•	•	•	•	•
	2136.80	Cable – 10 ft USB Type-A to Type-B											•	•		
	2138.54	Continuity Probe			•	•	•	•	•							
	2139.74	Lead – Set of (2), 6.5 ft color-coded red/black Fused Leads (.63 A) w/ 4 mm Plug		•	•	•	•	•	•							
	2140.19	9.6 V NiMH *(color may vary)*													•	•
	2151.30	Lead – Replacement Set of (3), 10 ft 5 kV w/ Integral clips									•	•	•	•		
	2151.31	Lead – Replacement 1 ft 5 kV Blue Jumper Lead									•	•	•	•		
	2151.32	Lead – Set of (3), 25 ft 5 kV Safety w/ Integral Clips									•	•	•	•		
	2151.33	Lead – Set of (3), 45 ft 5 kV Safety w/ Clips									•	•	•	•		
	2151.36	Lead – Replacement Set of (3), 10 ft 15 kV w/ Integral Clips													•	•
	2151.37	Lead – Replacement 1.5 ft 15 kV Blue Jumper													•	•
	2151.38	Lead – Set of (3), 25 ft 15 kV w/ Integral Clips													•	•
	2151.39	Lead – (1) 45 ft 15 kV Blue Guard w/ Integral Clips													•	•
	2151.40	Lead – (1) 45 ft 15 kV Red w/ Integral Clip													•	•

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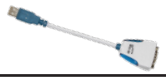
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	2151.41	Lead – (1) 45 ft 15 kV Black w/ Integral Clip													•	•
	2152.26	Probe – Set of (2), color-coded Grip Probes (red/black) 1000 V CAT III 20 A	•	•	•	•	•	•	•	•						
	2152.28	Lead – Set of (2), 6.5 ft Color-coded (red/black) Fused Leads (0.63 A); Two Screw-on Alligator Clips, Two Screw-on Test Probes, Set of (5), 0.63 A Fuses (UL)		•	•	•	•	•	•							
	2155.75	Megohmmeter Test Probe (600 V CAT IV)				•	•	•	•	•						
	2155.76	Weights – Set of (2) (5 lb each) with conductive rubber bottom pad (RoHS) for use with Model 6536 ESD Kit							•							
	2155.77	Case – Field Case			•	•	•	•	•							
	2951.70	Lead – Set of (3), Color-coded 10 ft safety leads							•							
	2960.21	Replacement 9.6 V Rechargeable Battery Pack								•	•	•	•	•		
	2970.97	Fuse – Set of (5), 0.5 A, 1000 V, HPC, (6x32) mm		•												
	2971.04	Fuse - Set of (2), FF, 200 mA, 1000 V, 10 kA, (6 × 32) mm			•											
	5000.14	Power cord 115 V								•	•	•	•	•	•	•
	5000.30	Probe – Black Test Probe {Rated 1000 V CAT IV, 15 A, UL}	•	•						•						
	5000.32	Power Cord 220 V								•	•	•	•	•	•	•
	5000.56	Fuse – (1) 500 mA, 3 kV, (8 × 85) mm									•	•	•	•		
	5000.60	Adapter – RS-232 to USB 2.0 Replacement								•			•	•		

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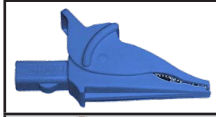
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	5000.66	Megohmmeter Calibration Checker – Provides (2) test resistances of 150 kO and 100 MO	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5000.78	Lead – Set of (2), 5 ft PVC color-coded (red/black) with 4 mm straight/right Banana Plugs	•							•						
	5000.93	Lead – Set of (3), 5 ft PVC color-coded (red/black/blue) with 4 mm straight/right Banana Plugs	•							•						
	5000.94	Lead – Set of (2), 5 ft silicone color-coded (red/black) with 4 mm straight/right Banana Plugs (Rated 1000 V, CAT IV, UL)		•	•	•	•	•	•							
	5000.95	Lead – Replacement Black 5 ft Shielded Lead								•						
	5000.97	Probe – Black Test Probe {Rated 1000 V CAT IV, 15 A, UL V2}	•	•	•	•	•	•	•							
	5000.98	Probe – Red Test Probe {Rated 1000 V CAT IV, 15 A, UL V2}	•	•	•	•	•	•	•							
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•	•						
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•	•						
	5100.02	Latches – Replacement set of (2) for use with AEMC® Yellow cases								•	•	•	•	•	•	•
	5100.04	Clip – Safety Alligator – Blue (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•	•	•					
	5100.07	Lead – set of (2), 5 ft color-coded (red/black) PVC w/ 4 mm ST/ST plugs	•	•	•	•	•	•	•	•	•					

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MEGOHMMETERS

SELECTION CHART

AEMC® MODEL NUMBER	CAT. #	TEST VOLTAGE	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE DETECTION	POWER SOURCE	DISPLAY	DATAVIEW® SOFTWARE
6503	2126.52	250 V 500 V 1000 V	(1 to 500) MΩ (1 to 500) MΩ (10 to 5000) MΩ	–			600 VAC	Hand-cranked	Analog	No
6522	2155.51	250 V 500 V 1000 V	50 kΩ to 10 GΩ 100 kΩ to 20 GΩ 200 kΩ to 40 GΩ	–	10 Ω	–	700 VAC/DC	(6) AA Alkaline Batteries	Digital / Analog	No
6527	2126.53	250 V 500 V 1000 V	1 kΩ to 4 GΩ	400 kΩ	400 Ω	–	600 VAC 1000 VDC	(6) AA Alkaline Batteries	Digital / Analog	No
6529	2126.55	50 V 100 V 250 V 500 V 1000 V	(0.010 to 420) MΩ (0.020 to 420) MΩ (0.050 to 420) MΩ (0.100 to 4200) MΩ 0.20 MΩ to 11 GΩ	(0 to 420) kΩ	(0 to 40) Ω (200 mA test current ≤ 2 Ω)	–	700 VAC 700 VAC/DC	(6) AA Alkaline Batteries	Digital	No
6526	2155.53	50 V 100 V 250 V 500 V 1000 V	10 kΩ to 10 GΩ 20 kΩ to 20 GΩ 50 kΩ to 50 GΩ 100 kΩ to 100 GΩ 200 kΩ to 200 GΩ	1000 kΩ	(10, 100) Ω	0.1 n to 10 µF	700 VAC/DC	(6) AA Alkaline Batteries	Digital / Analog	Yes
6534	2155.55	10 V 25 V 100 V 250 V 500 V	2 kΩ to 1 GΩ 5 kΩ to 2 GΩ 10 kΩ to 10 GΩ 50 kΩ to 25 GΩ 100 kΩ to 50 GΩ	1000 kΩ	(10, 100) Ω	–	700 VAC/DC	(6) AA Alkaline Batteries	Digital / Analog	Yes
6536	2155.56	10 V 100 V (variable in 1 V steps)	2 kΩ to 20 GΩ	1000 kΩ	(10, 100) Ω	–	700 VAC/DC	(6) AA Alkaline Batteries	Digital / Analog	No
6536 ESD Floor Kit	2155.57									
1060	2130.03	50 V 100 V 250 V 500 V 1000 V	2 kΩ to 200 GΩ 4 kΩ to 400 GΩ 10 kΩ to 1 TΩ 20 kΩ to 2 TΩ 40 kΩ to 4 TΩ	400 kΩ	40 Ω	(0.005 to 4.999) µF	1000 VAC/DC	Rechargeable NiMH Battery	Digital / Analog	Yes
6505	2130.18	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	–		(0.001 to 49.99) µF	2500 VAC 4000 VDC	Rechargeable NiMH Battery	Digital / Analog	No
5050	2130.20	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	–		(0.001 to 49.99) µF	2500 VAC 4000 VDC	Rechargeable NiMH Battery	Digital / Analog	No
5060	2130.21	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	–		(0.001 to 49.99) µF	2500 VAC 4000 VDC	Rechargeable NiMH Battery	Graphical / Analog	Yes
5070	2130.30	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	–		(0.005 to 49.99) µF	2500 VAC 4000 VDC	Rechargeable NiMH Battery	Graphical / Analog	Yes
6550	2130.31	500 V 1000 V 2500 V 5000 V 10,000 V	10 kΩ to (2, 4, 10, 15, 25) TΩ	–		(0.001 to 19.99) µF	2500 VAC 4000 VDC	Rechargeable NiMH Battery	Graphical / Analog	Yes
6555	2130.32	500 V 1000 V 2500 V 5000 V 10,000 V 15,000 V	10 kΩ to (2, 4, 10, 15, 25, 29) TΩ	–		(0.001 to 19.99) µF	2500 VAC 4000 VDC	Rechargeable NiMH Battery	Graphical / Analog	Yes

Consult factory for NIST Calibration prices.

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DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

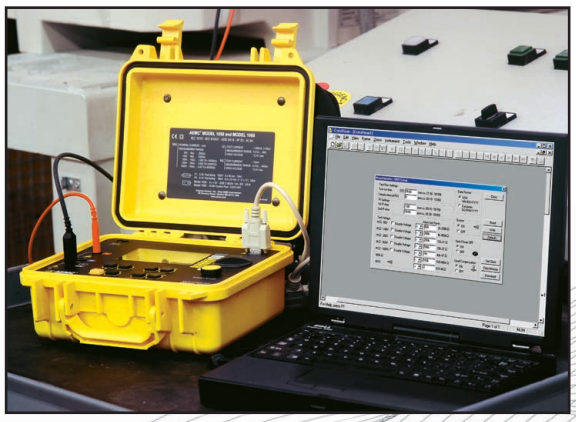
Configure All Functions of Models 1060, 5060, 5070, 6526, 6534, 6550 & 6555

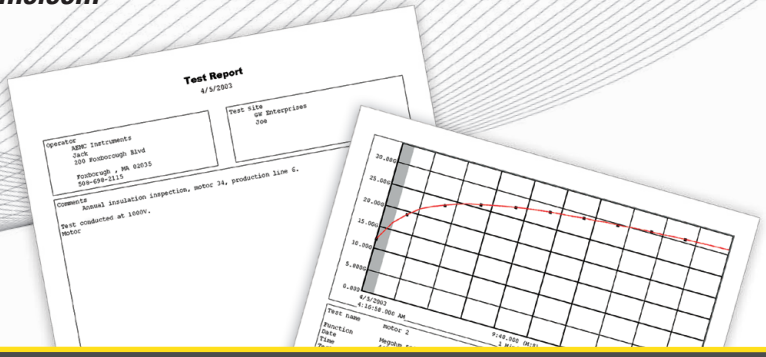
AUTOMATIC REPORT GENERATION

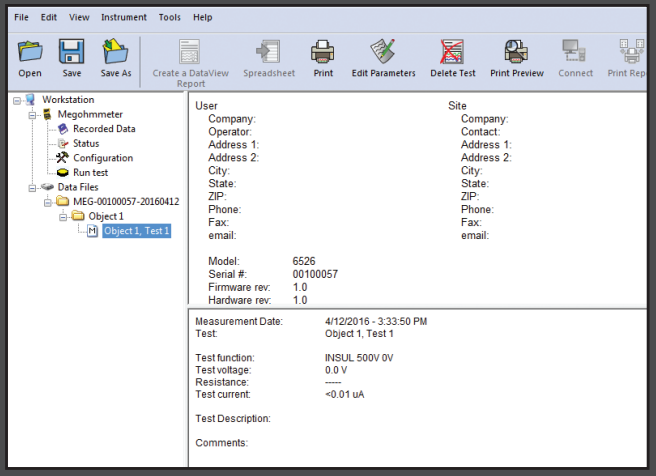
AEMC INSTRUMENTS www.aemc.com

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

- Print reports of all test results
- Select test voltage and run tests from your computer with a simple click and execute process
- Capture and display data in real-time
- Retrieve data from the instrument's memory:
  - Over 1500 insulation resistance measurements *(Model dependent)*
  - Storage of 80,000 measurements *(Model dependent)*
- Display DAR and PI ratios
- Plot graphs of manual and timed tests
- Include your analysis comments section with the report
- Store a library of set ups for different applications
- Certification of results through report generation
- Free updates are available on our website ***www.aemc.com***







Tree structured status screen provides the ability to select connected instruments, configure instruments, see the instrument's status and review stored test results.

DataView® Software automatically recognizes the instrument when it is connected to the PC allowing communication through the corresponding control panel. The tree structure menu offers direct access to the data recorded in the instrument and its configuration.

Other Functions Available:

- Start and stop tests from your PC
- Real-time display of active tests
- DAR and PI ratio programming and display
- Graphical plot of the tests
- Generate reports from test results

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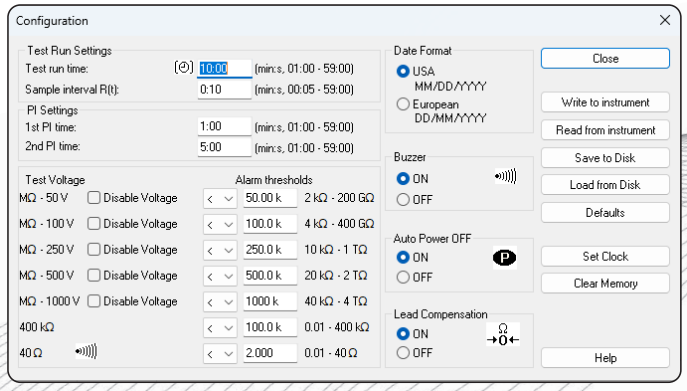
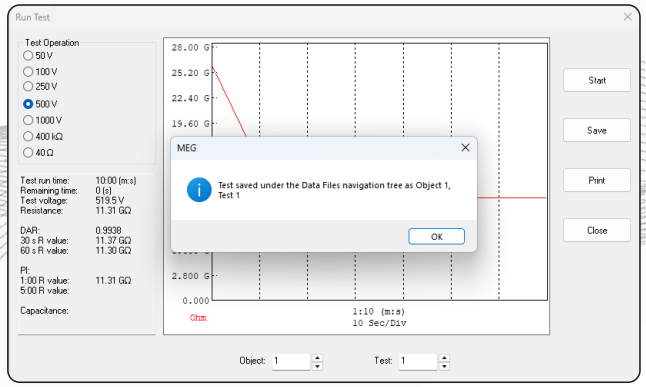
DataView®

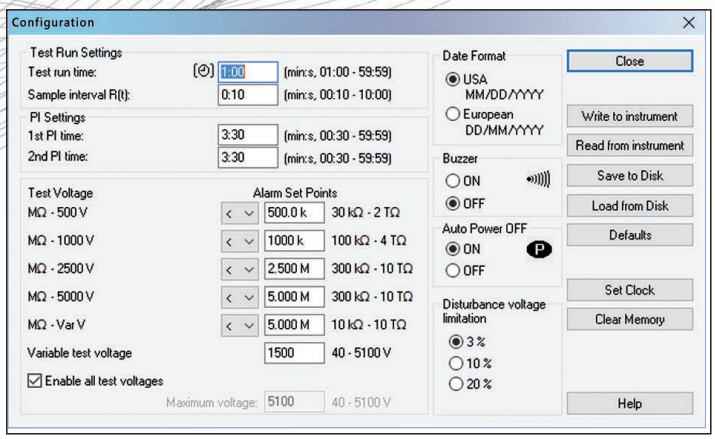
DATA ANALYSIS AND REPORTING SOFTWARE



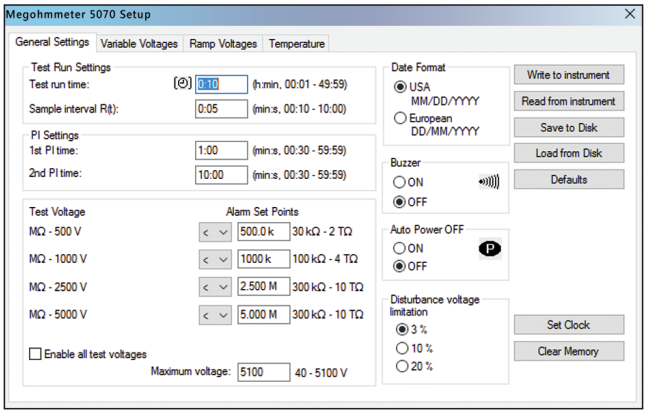
Clear and easy setup of all functions from one dialog box.



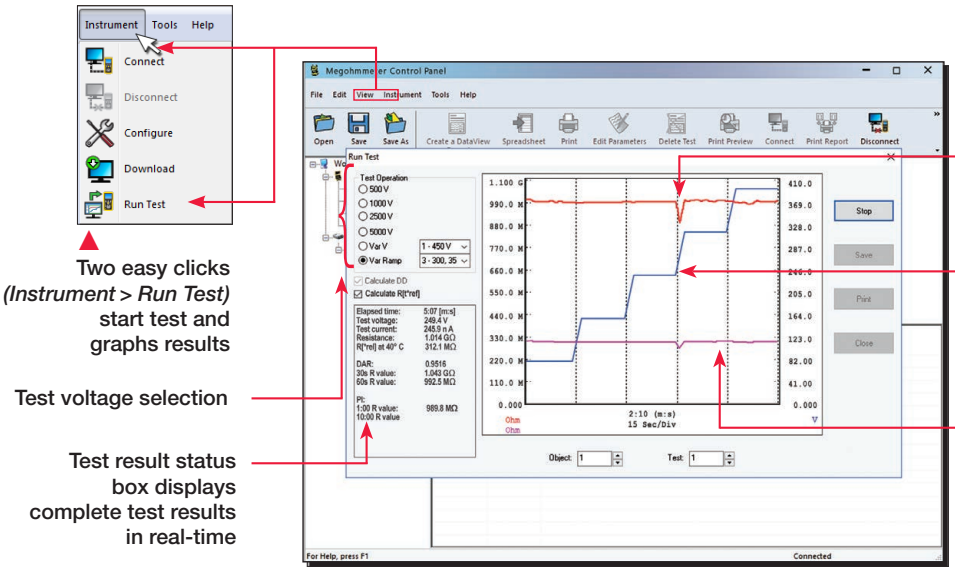
A simple press of the download button from either the setup or run dialog boxes will show all test results stored in the Model 1060.



Configuration screen allows you to set alarm levels, test time and to read and write configurations from and to the instrument.



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



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

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

MICRO-OHMMETERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Micro-Ohmmeters?

We know it's fundamental to precisely measure very low electrical resistance values to correctly diagnose problems in electrical bonds, contacts and other connections. That's why we offer Micro-Ohmmeter models that are accurate, rugged and easy-to-use. Automatic temperature compensation *(model dependent)* aids in year to year analysis and preventive maintenance decisions. Suitable for lab and field use with available test currents from 1 mA to 200 A. Utilizing a four-lead Kelvin method of testing, our instruments accurately measure very low resistances in the micro-ohm range within .05 % accuracy.

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

MICRO-OHMMETERS
10 A
MODEL 6240

IP64 cover closed | IP53 cover open | 50 V CAT III | CE

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

AUTOMATIC REPORT GENERATION
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 (± I) 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 µΩ
Typical Accuracy	± (0.25 % + 2 cts)
Resolution	1 µΩ to 100 mΩ
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
10 A
MODEL 6255

IP64 cover closed | IP53 cover open | 50 V CAT III | CE

Accurate results within 0.05 %
Provides extended test time at 10 Amps without overheating.



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

AUTOMATIC REPORT GENERATION
DataView®

FEATURES

- High-precision, four-terminal Kelvin micro-ohmmeter designed for repeatable low-resistance measurements with temperature compensation and selectable metal types
- Extended measurement range from 1 µΩ to 2.5 kΩ with selectable test currents from 1 mA to 10 A, allowing accurate testing across a wide variety of conductive materials and connections
- High-resolution measurements down to 0.1 µΩ with basic accuracy to 0.05 %, supporting precision applications and trending over time
- Selectable Inductive, Resistive, and Auto test modes optimize measurement stability on motors, transformers, and other inductive components
- Automatic and manual temperature compensation using selectable metal types and optional RTD temperature probe improves measurement accuracy by correcting resistance values to a reference temperature
- Two programmable alarm thresholds provide immediate visual and audible indication when resistance values exceed acceptable limits
- USB communication with DataView® software allows remote setup, real-time control, data management, analysis, and professional report generation
- Safety-rated CAT III 50 V with double insulation and comprehensive input protection for use on de-energized equipment

MODEL	6255
ELECTRICAL	
Maximum Test Current	10 A
Test Current Selection	(1, 10, 100) mA, (1,10) A
Minimum Resistance Measurement	1 µΩ
Typical Accuracy(1)	± (0.05 % + 0.3 mΩ)
Resolution	0.1 µΩ to 100 mΩ
Test Modes	Auto, Inductive, Resistive
COMPENSATION & ALARMS	
Temperature Compensation	Yes
Alarms	Yes
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	Yes
Onboard Measurement Storage	1500
Data Connection	RS-232 to USB
Automatic Measurement Storage	N/A
OTHER FEATURES	
Polarity Reversal and Averaging	N/A
GENERAL	
Display	Multi-parameter backlit LCD
Power Source	NiMH battery pack
Power Supply	(100 to 240) VAC Integrated battery charger
Battery Life	5000 Tests @ 10 A
SAFETY & ENVIRONMENT	
CAT Rating	CAT III 50 V
IP Rating *(Closed Lid)*	IP64

Consult factory for NIST Calibration prices.

(1) Range Specific

PRODUCT INCLUDES

CAT. #2129.84 MICRO-OHMMETER MODEL 6255

Extra large tool bag, set of (2) 10 ft 10 A Kelvin hippo clips, set of (2) 10 ft Spring Loaded Kelvin probes, RS-232 cable, RS-232 to USB adapter, power cord, rechargeable battery pack, quick start guide and a USB drive with DataView® software and user manual.



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
2129.84	Micro-Ohmmeter Model 6255 (10 A, Instantaneous, Continuous, Multiple Test, Manual/Auto Temperature Compensation; 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
200 A
MODEL 6292

IP 54 cover closed

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



Case color may vary

DataView®

MODEL	6292
ELECTRICAL	
Maximum Test Current	200 A
Test Current Selection	Variable (5 to 200) A
Minimum Resistance Measurement	0.1 µΩ
Typical Accuracy	± 1 %
Resolution	0.1 µΩ to 1 mΩ
Test Modes	Manual, Ramping, Timed, Both Sides Grounded
COMPENSATION & ALARMS	
Temperature Compensation	N/A
Alarms	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	Yes
Onboard Measurement Storage	8000
Data Connection	USB
Automatic Measurement Storage	N/A
OTHER FEATURES	
Both Sides Grounded (BSG) Current Measurement	Yes
GENERAL	
Display	Multi-parameter backlit LCD
Power Source	AC Mains Power
Power Supply	(100 to 240) VAC
Battery Life	N/A
SAFETY & ENVIRONMENT	
IP Rating *(Closed Lid)*	IP54

Consult factory for NIST Calibration prices.

FEATURES

- High-current, four-terminal Kelvin micro-ohmmeter designed for low-resistance testing of circuit breakers, switchgear, and other high-voltage apparatus in utility and substation environments
- Advanced cooling system supports continuous testing at 100 A or below and extended test durations up to 120 seconds at 200 A, allowing stable measurements without forced downtime
- Ultra-low ripple True DC output (< 2 %) ensures stable, repeatable resistance measurements, even at maximum test current
- Wide resistance measurement range from 0.1 µΩ to 1 Ω with resolution down to 0.1 µΩ, supporting precision measurements on large conductors and high-current contacts
- Selectable test modes, including standard Kelvin testing and Both Sides Grounded (BSG) measurements *(with optional current probe)*, allow safe testing of grounded breaker and switchgear assemblies without disconnecting ground paths
- Adjustable test duration and automatic sequencing support single or multiple back-to-back tests, ideal for commissioning and maintenance workflows
- Large, multi-line backlit LCD provides clear visibility of resistance, test current, elapsed time, and test status for confident operation in substation environments
- Comprehensive safety protections, including overcurrent, short-circuit, overheating, and output overvoltage protection, for safe operation on de-energized high-voltage equipment

PRODUCT INCLUDES

CAT. #2129.83 MICRO-OHMMETER MODEL 6292

Extra large tool bag, set of (2) 25 ft Kelvin clips (200 A - Hippo), (1) ground lead *(green)* with clamp, 5 ft USB cable, power cord, printed quick start guide and a USB drive with DataView® software and user manual.



FRONT PANEL DISPLAY



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
2129.83	Micro-Ohmmeter Model 6292 (200 A, (120/230) V, DataView® Software)

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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			•

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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 × 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 × 32) mm		•	
	2129.99	Fuse – Set of (10), 2 A, 250 V (Fast Blow), (5 × 20) mm		•	
	2130.00	Fuse – Set of (5), 15 A, 250 V (Slow Blow), (5 × 20) mm			•
	2133.72	Small Classic Tool Bag for field use. 12 Exterior and 14 Interior pockets. Dimensions: (13.0 × 9.8 × 9.5) in.	•	•	
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 × 9 × 12) in	•	•	•
	2133.76	Bag - Extra Large Carrying Bag w/ Rubber Bottom	•	•	
	2135.41	Optical USB Cable	•		
	2135.43	Inverter – 12 V_{DC} to 120 V_{AC} 200 Watt for Vehicle Use	•	•	

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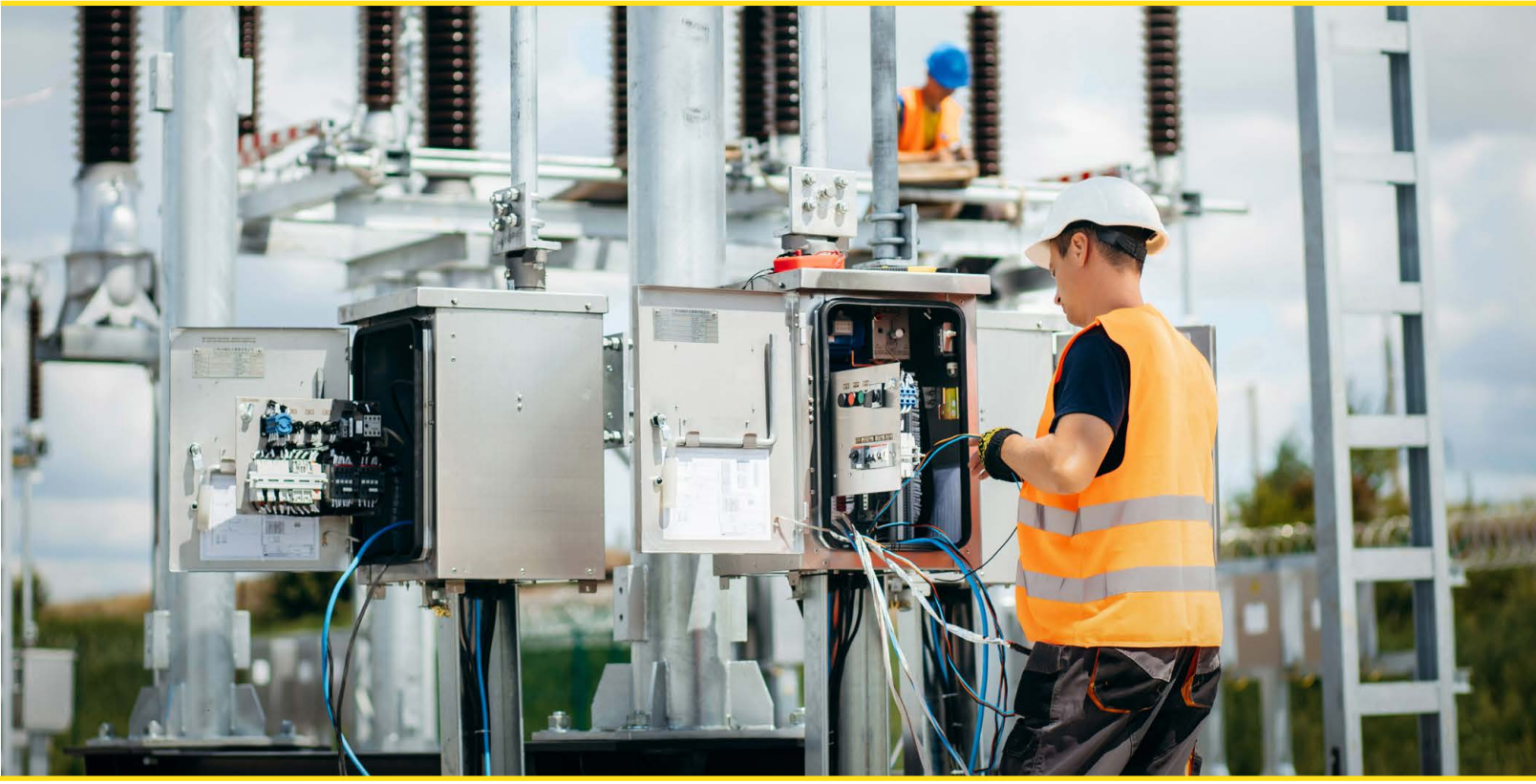
ACCESSORIES / REPLACEMENTS

	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	•	•	



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DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

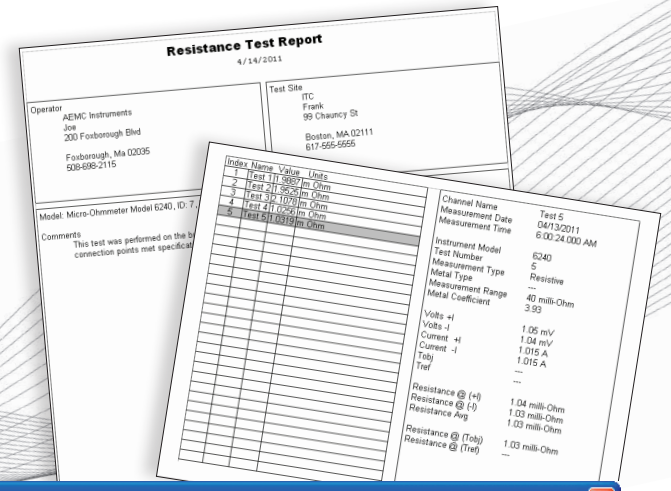
Configure all functions:

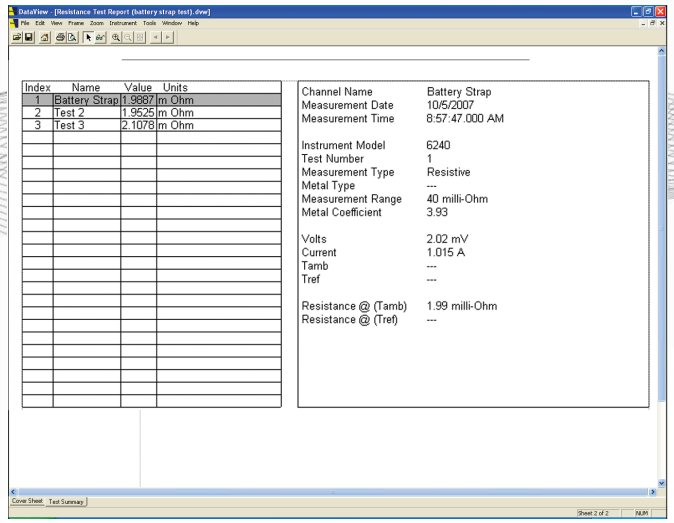
- Configure instrument from your PC
- Customize views and templates to your exact needs
- Easily configure all functions and parameters specific to each instrument from your PC
- Create and store a complete library of configurations that can be uploaded to a device as needed
- Create custom views, templates, 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***

AUTOMATIC REPORT GENERATION

AEMC INSTRUMENTS www.aemc.com

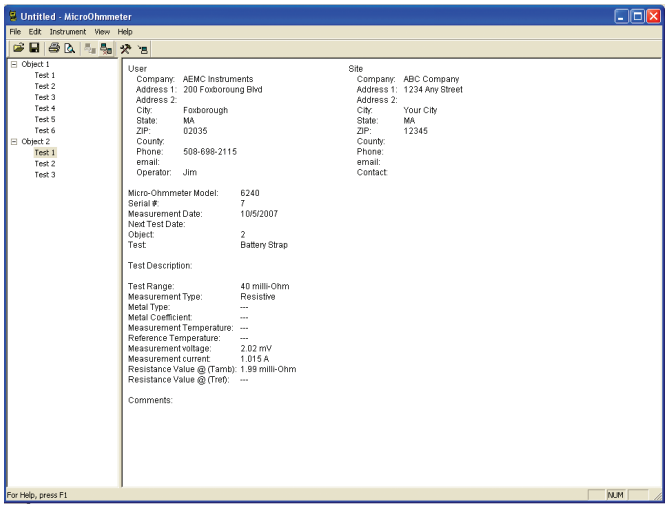
DataView® software, user manual and quick start guide are included in the USB Drive



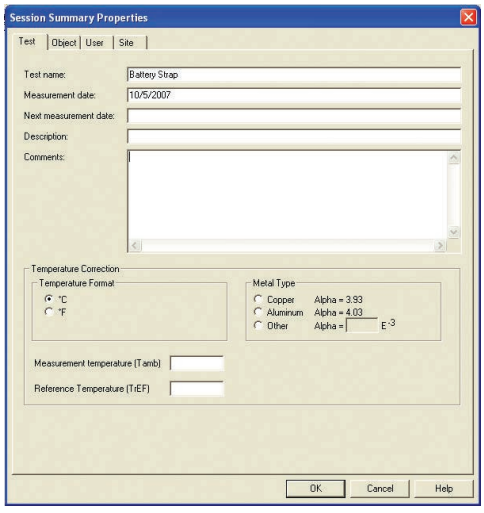


Statistical presentation of measurements

All set up functions available from one screen



Clean, easy-to-read report of test results



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

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

OSCILLOSCOPES



Why choose AEMC® Instruments Oscilloscopes?

Our oscilloscopes deliver true channel-to-channel isolation, one-button access to all functions, harmonic analysis, data storage, Ethernet connectivity, and self-calibrating probes. Available in two- and four-channel hand-held configurations, they are built for reliable, accurate field and bench measurement.

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

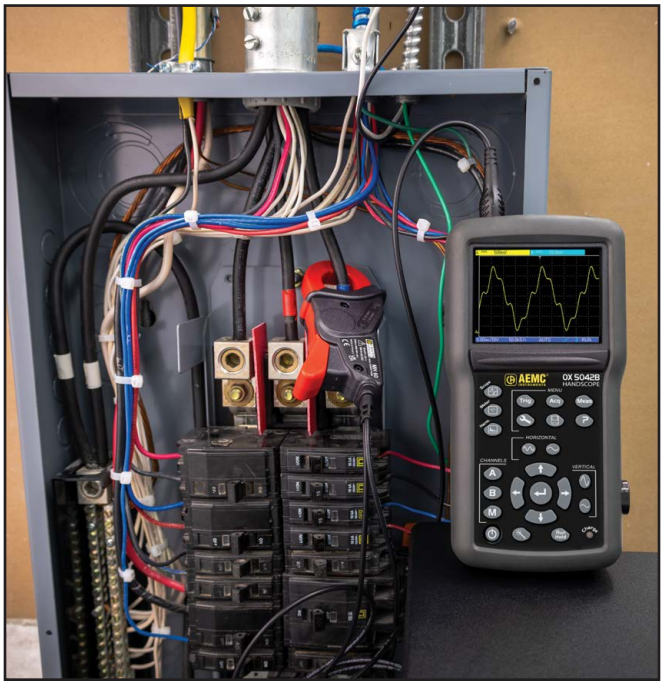
OSCILLOSCOPES
HANDSCOPE
MODEL OX 5042B

IP 54 | 600 V CAT III | CE

Handheld 3-in-1 portable oscilloscope, multimeter, and harmonic analyzer with two fully isolated channels.



WARRANTY 3 YEARS WARRANTY
*UPON REGISTERING



FEATURES

- **Two fully isolated channels** rated 600 V CAT III for safe differential measurements on live circuits without a common ground reference
- **Three instruments in one** 40 MHz oscilloscope, double 8000-count multimeter/power analyzer, and harmonic analyzer — reducing the number of tools needed in the field
- **3.5 in color LCD with LED backlighting** provides clear visibility of waveforms, measurement values, and harmonic data in all lighting conditions
- **Integrated interactive multilingual help function** with 14 complete languages, menus, and contextual guidance built into the instrument
- **2 MB recording data** stores graphic recordings of up to 2700 measurements *(5 min to 1 mo)* for long-term trending and analysis
- **Isolated USB communication via SCPI protocol** with SX-Metro PC application software for real-time measurement display, instrument configuration, and data export to spreadsheet
- **Harmonic analysis on two channels** measures individual harmonic content up to the 31st order for identifying distortion sources on power circuits
- **19 automatic measurement types** display simultaneously for both isolated channels, with cursor measurement providing V, T, dV, and dt at four-digit resolution

PRODUCT INCLUDES

CAT. #2150.21 MODEL OX 5042B

Small classic tool bag, US wall plug, USB cable, set of (2) 10 ft color-coded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/black) probes, BNC adapter, (2) probe 10:1 600 V BNC male, (6) 1.2 V AA NiMH rechargeable batteries, printed quick start guide, and a USB drive with software and user manual.

CAT. #2150.22 MODEL OX 5042B (WITH MN251T & MF 3000-24-1-1) *(SHOWN)*

CAT. #2150.23 MODEL OX 5042B (WITH MN379T & MF 3000-24-1-1)

Field case, USB wall plug, USB cable, set of (2) 10 ft color-coded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/black) probes, BNC adapter, (1) probe 10:1 600 V BNC male, (1) AC current probe *(MN251T or MN379T per catalog number)*, MiniFlex® Sensor 3000-24-1-1, (6) AA NiMH rechargeable batteries, printed quick start guide, and USB drive with software and user manual.



See pages 175 to 176 for Accessories/Replacements

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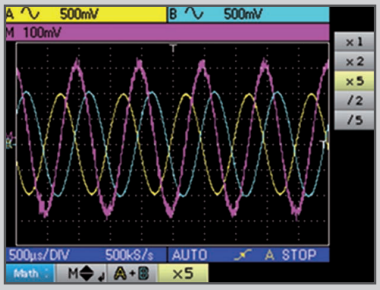
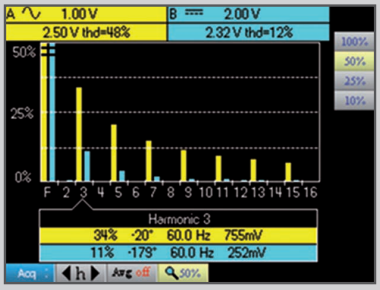
AEMC® INSTRUMENTS

OSCILLOSCOPES
HANDSCOPE
MODEL OX 5042B

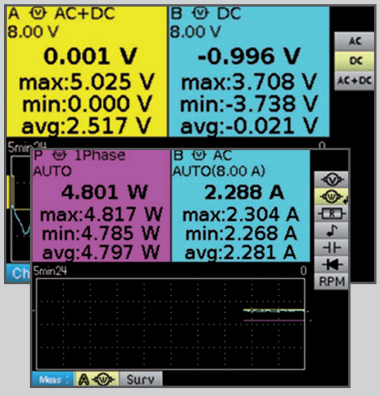
FUNCTIONAL DISPLAYS



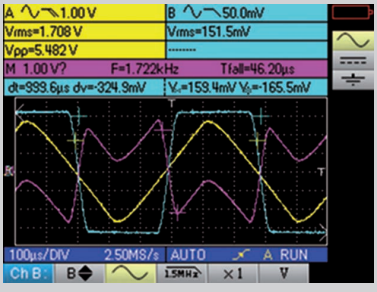
HIGH PERFORMANCE
Automatically displays measurements for both isolated channels from your choice of 19 measurement types.



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



TWO INDEPENDENT 8000-COUNT TRMS DIGITAL MULTIMETERS
Instantly displays measurements in multimeter mode at the press of a button.



STORAGE COMMUNICATION & PC SOFTWARE
View real-time measurements on your PC, configure the Handscope, export data to aspreadsheet using the SX-Metro included software.

MODEL	OX 5042B
DISPLAY & INTERFACE	
Display	3.5 in color TFT LCD
Resolution	(320 × 240) pixels
OSCILLOSCOPE MODE	
Bandwidth	40 MHz
Number of Channels	2 isolated
Input Impedance	1 MΩ ± 0.5 %, approx. 17 pF
Vertical Sensitivity	5 mV to 200 V / div
Vertical Resolution	9 bits
Max Sampling Rate	2 GS/s (ETS)[1], 50 MS/s *(one-shot)*
Sweep Speed	25 ns to 200 s / div
Memory Depth	2500 pts / channel
GLITCH Mode[2]	≥ 20 ns, 1250 min / max pairs
Triggering, Mode	Auto, triggered, one-shot, triggered roll
Triggering, Type	Edge, pulse width *(20 ns to 20 s)*
HARMONIC ANALYZER	
Channels *(Harmonic)*	2
Orders	31
Fundamental Frequency	(40 to 450) Hz
MULTIMETER MODE	
Display Count	8000
Channels *(Multimeter)*	2
Voltage Measurement Range - AC	600 mV to 600 Vrms
Voltage Measurement Range - DC	800 mV to 800 VDC
Resistance	80 Ω to 32 MΩ
Capacitance	5 nF to 5 mF
Power Measurement	Yes[3]
Graphic Recording	2700 measurements *(5 min to 1 mo)*
COMMUNICATION	
USB	Yes *(optical)*
PC Software	Yes
STORAGE	
Internal Storage	2 MB
GENERAL	
Power Supply	(6) AA rechargeable batteries
Power Source	AC / DC Power Adapter
Battery Life	Up to 8 h 30 min
Safety Rating	600 V CAT III
IP Rating	IP54

Consult factory for NIST Calibration prices.

[1] ETS *(Equivalent Time Sampling)*: effective rate achieved on repetitive signals over multiple acquisition cycles

[2] Captures min/max signal extremes between sample points to detect short-duration transients that may not appear at normal sampling rates

[3] Single-phase and balanced three-phase; AC only

CAT. #	DESCRIPTION
2150.21	Hand-held Portable Oscilloscope Model OX 5042B
2150.22	Hand-held Portable Oscilloscope Model OX 5042B w / MN251T & MF 3000-24-1-1 (BNC Output)
2150.23	Hand-held Portable Oscilloscope Model OX 5042B w / MN379T & MF 3000-24-1-1 (BNC Output; Low AC current measurement)

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OSCILLOSCOPES
OX 9000 SERIES

MODELS OX 9062, OX 9102, OX 9104 & OX 9304

Ergonomic, field ready oscilloscope with up to 300 MHz bandwidth and four operating modes: oscilloscope, multimeter, harmonic analyzer, and recorder — built for electronic and industrial maintenance.



OX 9062



OX 9102



OX 9104



OX 9304

FEATURES

- **Bandwidth up to 300 MHz** *(model dependent)* with 12-bit vertical resolution and 2.5 GS/s sampling rate for capturing fast, detailed waveforms on electronic and industrial circuits
- **Two or four fully isolated channels** rated 600 V CAT III for safe simultaneous measurements without common ground constraints
- **Advanced triggering modes** including edge, pulse width, delay, and event counting with continuous trigger position adjustment for precise signal capture
- **7 in WVGA color TFT touch screen** with (800 × 480) resolution, adjustable LED backlighting, and intuitive touch-screen icons accessible even while wearing gloves
- **100 kpts memory depth per channel** with 1 GB internal storage and removable µSD card support *(up to SDXC > 32 GB)* for extensive data capture and file management
- **Built-in FFT analyzer and math function editor** with 2500-point FFT *(linear or log)*, addition, subtraction, multiplication, division, and custom expressions for in-field signal analysis
- **Harmonic analyzer mode** measures up to 63rd order on two or four channels *(model dependent)* with fundamental frequency from (40 to 450) Hz for power quality diagnostics
- **Logger mode records up to 100,000 measurements** at intervals as short as 0.2 s for long-duration trending of voltage, current, and power parameters
- **Ethernet, Wi-Fi, and USB communication** with ScopeNet PC software for remote control, data recovery, cursor and automatic measurements, and network printing in .png format
- **IP54-rated housing** with adjustable shoulder strap, Kensington lock slot, and compact ergonomic design optimized for one-handed field operation
- **Rechargeable battery with up to 8 h of operation** and 2-hour fast charging via power adapter for extended field use without downtime

CAT. #	DESCRIPTION
2150.31	Hand-held Portable Oscilloscope Model OX 9062 IV 60 MHz (2-Channel, 60 MHz) — **SPECIAL ORDER ONLY**
2150.32	Hand-held Portable Oscilloscope Model OX 9102 IV 100 MHz (2-Channel, 100 MHz) — **SPECIAL ORDER ONLY**
2150.33	Hand-held Portable Oscilloscope Model OX 9104 IV 100 MHz (4-Channel, 100 MHz)
2150.34	Hand-held Portable Oscilloscope Model OX 9304 IV 300 MHz (4-Channel, 300 MHz)

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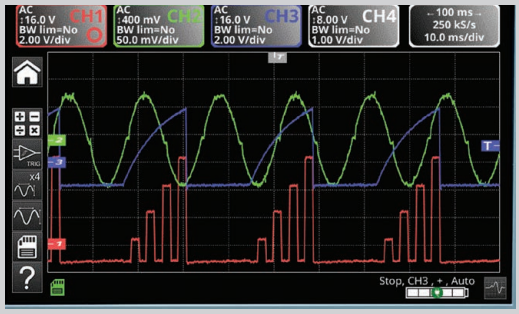
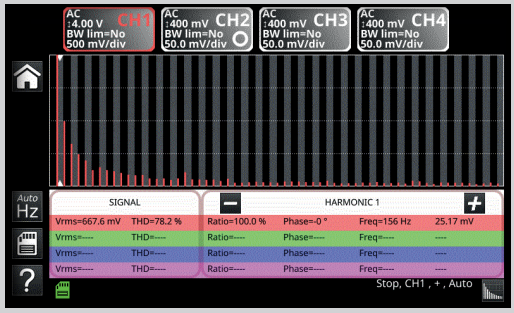
OSCILLOSCOPES
OX 9000 SERIES
MODELS OX 9062, OX 9102, OX 9104 & OX 9304

FUNCTIONAL DISPLAYS

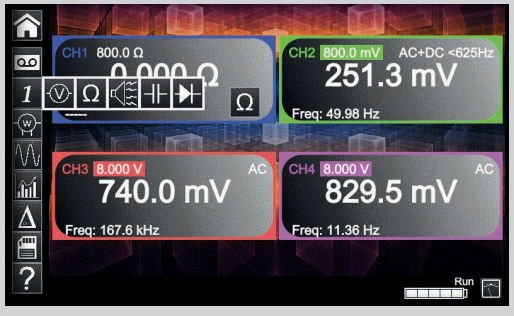
OSCILLOSCOPE



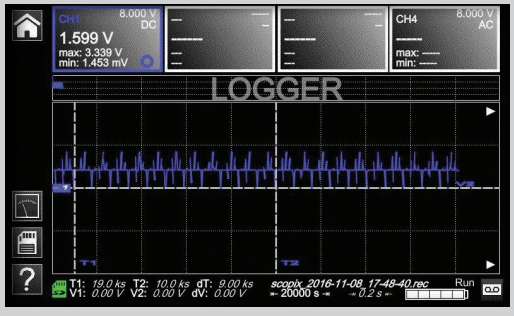
HARMONICS

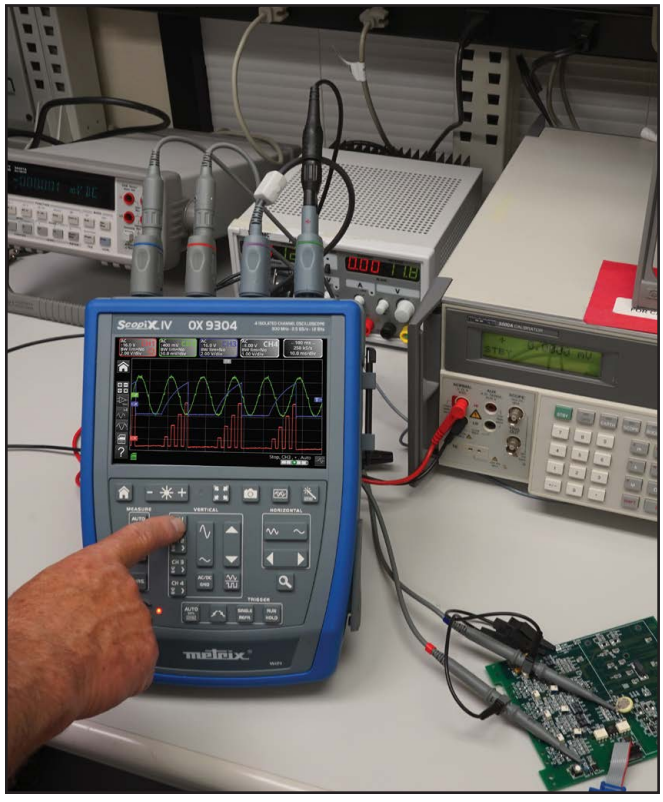


MULTIMETER - DISPLAYS UP TO 4 CHANNELS SIMULTANEOUSLY



MEASUREMENT BETWEEN H AND V CURSORS: T1, T2, DT, 1/DT, V1, V2, DV, PH





PRODUCT INCLUDES

CAT. #2150.31 MODEL OX 9062 *(SPECIAL ORDER ONLY)*
CAT. #2150.32 MODEL OX 9102 *(SPECIAL ORDER ONLY)*
CAT. #2150.33 MODEL OX 9104
CAT. #2150.34 MODEL OX 9304

Scope in carrying case with shoulder strap, set of (2) 5 ft color-coded leads, alligator clips and test probes (4 mm diameter), 10 ft USB cable, USD memory card, (1) PROBIX Banana Plug (4 mm) adapter, (1) stylus pen, battery pack, PA40W-2 power adapter with power cord. Additional accessories *(model dependent)*.



See pages 175 to 176 for Accessories/Replacements

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ERGONOMICS

Designed to simplify use with one button access to most functions.

In a housing tailor-made to be as compact as possible, the mechanical design makes it possible to integrate the hardware components in a small size with the keypad benefits from new technology developed in the automotive industry.

ISOLATED CHANNELS

Each channel is isolated from each other and from ground, rated at 600 V CAT III.

CHANNEL AND PARAMETER IDENTIFICATION

Each channel and related parameters are identified with identical color against a black background for simpler, quicker viewing.

EASY ACCESS VIA TOUCH SCREEN

Intuitive icons are provided to facilitate their use, even with gloves on.

ADJUSTABLE STRAP

This helps to optimize operation of the oscilloscope in your hand or on your shoulder when working in the field.

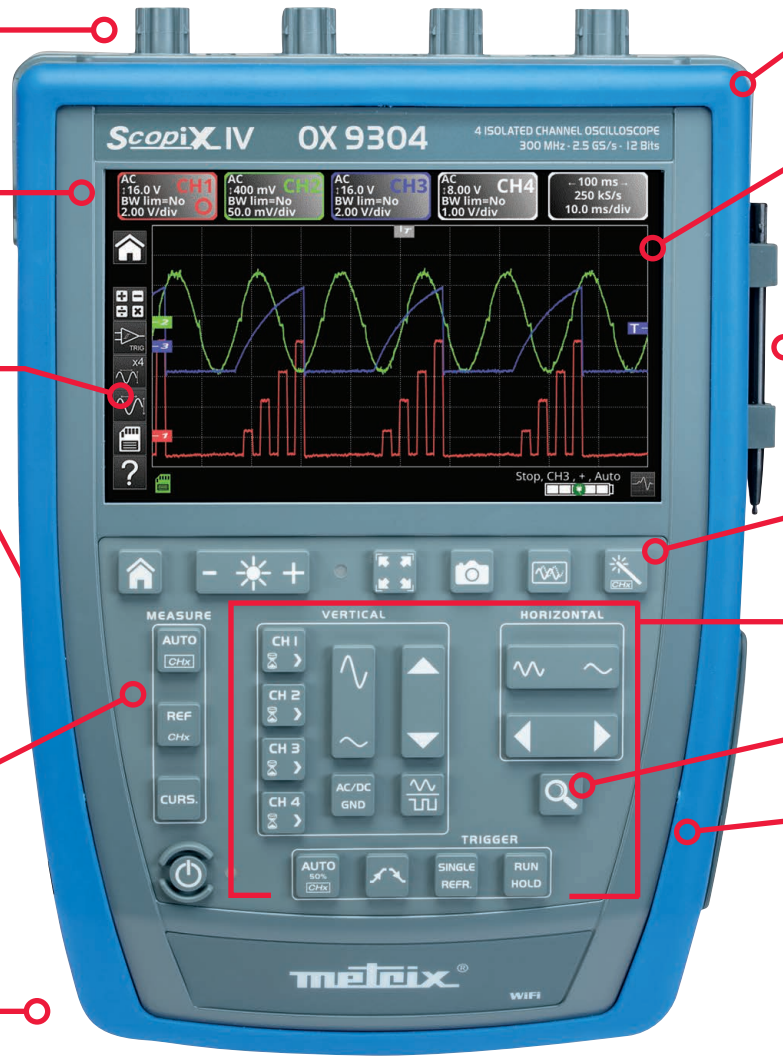
A stand is also available to vary the orientation of the oscilloscope when it is placed on a bench. The oscilloscope can be safely left unattended using the Kensington locking system.

NEW KEYPAD DESIGN FOR OPTIMUM USER COMFORT

Configuration and measurement displays are simple to access from the front panel in one of these 5 specific areas: Utilities *(brightness, full screen, screenshot)*, Measurements, Vertical, Horizontal, Trigger.

LINE POWER AND LI-ION BATTERY CHARGING PORT

Port on left side.





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APPLICATIONS

Ideal for electronic and industrial maintenance.

IP54

Housing protected against dust and water spray.

7-INCH WVGA WIDE COLOR TFT TOUCH SCREEN

Makes it easy to view and read the measurements clearly. It also provides a screen resolution of (800 × 480) pixels with manual or automatic brightness.

TOUCH-SCREEN STYLUS STORAGE

Among the essential tools available, the stylus is equipped with a hook for the addition of a cord to make it captive, as required. One end is slightly flattened to prevent rolling when placed on a table or bench.

AUTOSET BUTTON

Quickly and effortlessly adjusts the horizontal and vertical; sensitivity and scales to provide the best resolution.

DIRECT SETTING AND SETUP BUTTONS

DIRECT ACCESS ZOOM BUTTON

Activates/Deactivates the horizontal Zoom function.

COMMUNICATION INTERFACES

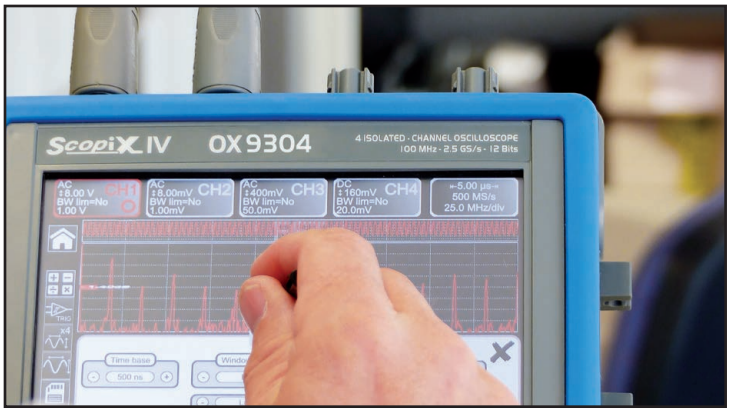
These are isolated from one another and from the measurement channels. A dedicated compartment on the right side protected by a flexible cover contains all the different communication interface ports:

- USB host for communication with a PC
- Wired RJ45 or Wi-Fi for communication with a PC or printing via a network printer
- µSD card for data storage with quick transfer and for upgrading of the instrument's firmware



Electronic maintenance

The OX 9304 model is ideal for electronics with its 300 MHz bandwidth, (4) 600 V CAT III isolated channels, advanced trigger functions, integrated FFT function, complex mathematical calculations on the curves, automatic measurements on 4 channels and the built-in WEB server.



Industrial maintenance

The OX 9304's large 7-inch screen, Harmonic Analyzer and Multimeter modes make it ideal for industrial maintenance applications.



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OSCILLOSCOPES
OX 9000 SERIES

SPECIFICATION CHART

MODEL	OX 9062	OX 9102	OX 9104	OX 9304
DISPLAY & INTERFACE				
Display	7 in WVGA color TFT touch screen			
Resolution	(800 × 480) pixels			
Touch Screen	Yes			
OSCILLOSCOPE MODE				
Bandwidth	60 MHz	100 MHz		300 MHz
Number of Channels	2 isolated		4 isolated	
Input Impedance	1 MΩ ± 0.5 %, approx. 12 pF			
Vertical Sensitivity	2.5 mV to 200 V / div			
Vertical Resolution	12 bits			
Max Sampling Rate	2.5 GS/s (one-shot) 100 GS/s (ETS) [1]			
Sweep Speed	1 ns to 200 s / div			
Memory Depth	100 kpts / channel			
GLITCH Mode [2]	≤ 2 ns 500,000 min / max pairs			
FFT Analyzer	Yes			
AUTOSET	(< 5 s)			
Triggering, Mode	Auto, triggered, one-shot, auto level 50 %			
Triggering, Type	Edge, pulse width, delay, counting *(3 to 16,384 events)*			
HARMONIC ANALYZER				
Channels *(Harmonic)*	2		4	
Orders	63			
Fundamental Frequency	(40 to 450) Hz			
MULTIMETER MODE				
Display Count	8000			
Channels *(Multimeter)*	2		4	
Voltage Measurement Range - AC	600 mV to 600 Vrms			
Voltage Measurement Range - DC	800 mV to 800 VDC			
Resistance	80 Ω to 32 MΩ			
Capacitance	5 nF to 5 mF			
Power Measurement	Yes [3]			
Graphic Recording	*See logger mode*			
COMMUNICATION				
USB	Yes			
Ethernet	Yes			
Wi-Fi	Yes			
PC Software	Yes			
STORAGE				
Internal Storage	1 GB			
Removable Storage	8 GB µSD; micro SD card can be upgraded to HC *(up to 32 GB)* and XC *(up to 2 TB)*			
GENERAL				
Power Supply	LI-ION Rechargeable battery pack			
Power Source	AC / DC Power Adapter			
Battery Life	Up to 8 h			
Safety Rating	600 V CAT III			
IP Rating	IP54			

Consult factory for NIST Calibration prices.

[1] ETS *(Equivalent Time Sampling)*: effective rate achieved on repetitive signals over multiple acquisition cycles

[2] Captures min/max signal extremes between sample points to detect short-duration transients that may not appear at normal sampling rates

[3] Single-phase and balanced three-phase; AC only

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	OX 5042B	OX 9062	OX 9102	OX 9104	OX 9304
	2118.46	Adapter – Banana (Female) to BNC (Male) (XM-BB) 600 V CAT III	•				
	2124.74	PROBIX PRHX4, Adapter BNC		•	•	•	•
	2124.75	PROBIX PRHX5, 50 Ohm Adapter (HX0032)		•	•	•	•
	2124.76	PROBIX Banana Plug (4 mm) Adapter (HX0033)		•	•	•	•
	2124.86	Probe – Set of (2) color-coded Grip Probes (Red/Black) 1000 V CAT II <6 A	•				
	2126.84	MiniFlex® 30/300 A, 10 in, 100 mV/10 mV/A High Frequency *(for any BNC Oscilloscope)*	•	•	•	•	•
	2126.86	MiniFlex® 3000 A, 14 in, 1 mV/A High Frequency *(for any BNC Oscilloscope)*	•	•	•	•	•
	2132.59	AC Current Probe Model MN251T (200 A, 1 mV/A, Lead)	•				
	2132.63	MiniFlex® 3000 A, 24 in, 1 mv/A. 10 ft BNC Output	•				
	2133.72	Small Classic Tool Bag for field use. 12 Exterior and 14 Interior pockets. Dimensions: (13.0 × 9.8 × 9.5) in.	•	•	•	•	•
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 × 9 × 12) in	•	•	•	•	•
	2133.76	Extra Large Carrying Bag w/ Rubber Bottom Dimensions: (22.5 × 12.5 × 7.5) in	•	•	•	•	•
	2135.41	Optical USB Cable	•				
	2136.80	Cable – 10 ft USB Type-A to Type-B		•	•	•	•

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	OX 5042B	OX 9062	OX 9102	OX 9104	OX 9304
	2140.63	Lead – Set of (2), Color-coded 10 ft (3 m) (600 V CAT IV) w/ Color-coded Alligator Clips (Red/Black) (1000 V CAT IV, 15 A)	•				
	2153.02	AC current probe Model MN379T	•				
	2153.03	AC/DC Current Probe Model MH60	•	•	•	•	•
	2155.77	Case – Field Case	•				
	2157.01	PROBIX 4 mm Banana Plug Adapter for use up to 300 Hz	•	•	•	•	•
	2157.02	PROBIX PRHX1, 1/10 Probe, 500 MHz for use with OX Series (300 V CAT III)	•	•	•	•	•
	2157.03	PROBIX PRHX1, 1/10 Probe, 250 MHz for use with OX Series (600 V CAT III)	•	•	•	•	•
	2960.47	Battery – Replacement 5.8 Ah 61.9 Wh Li-ion Battery Pack		•	•	•	•
	5000.17	Set of (5) Replacement Stylus Pens		•	•	•	•
	5000.30	Probe – Black Test Probe (1000 V CAT IV, 15 A, UL)	•	•	•	•	•
	5000.50	Probe – 10:1 600 V BNC Male	•				
	5000.51	Wall plug – 18 W (100 to 240) V (50/60) Hz	•				
	5000.94	Lead – Set of (2), 5 ft Silicone Color-Coded (Red/Black) with 4 mm Straight/Right Banana Plugs (1000 V, CAT IV, UL)		•	•	•	•
	5000.97	Probe – black test probe (1000V CAT IV, 15A, UL V2)	•				
	5000.98	Probe – red test probe (1000 V CAT IV, 15 A, UL V2)	•				
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)		•	•	•	•
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)		•	•	•	•
	5100.17	Cable – Replacement USB Cable	•				

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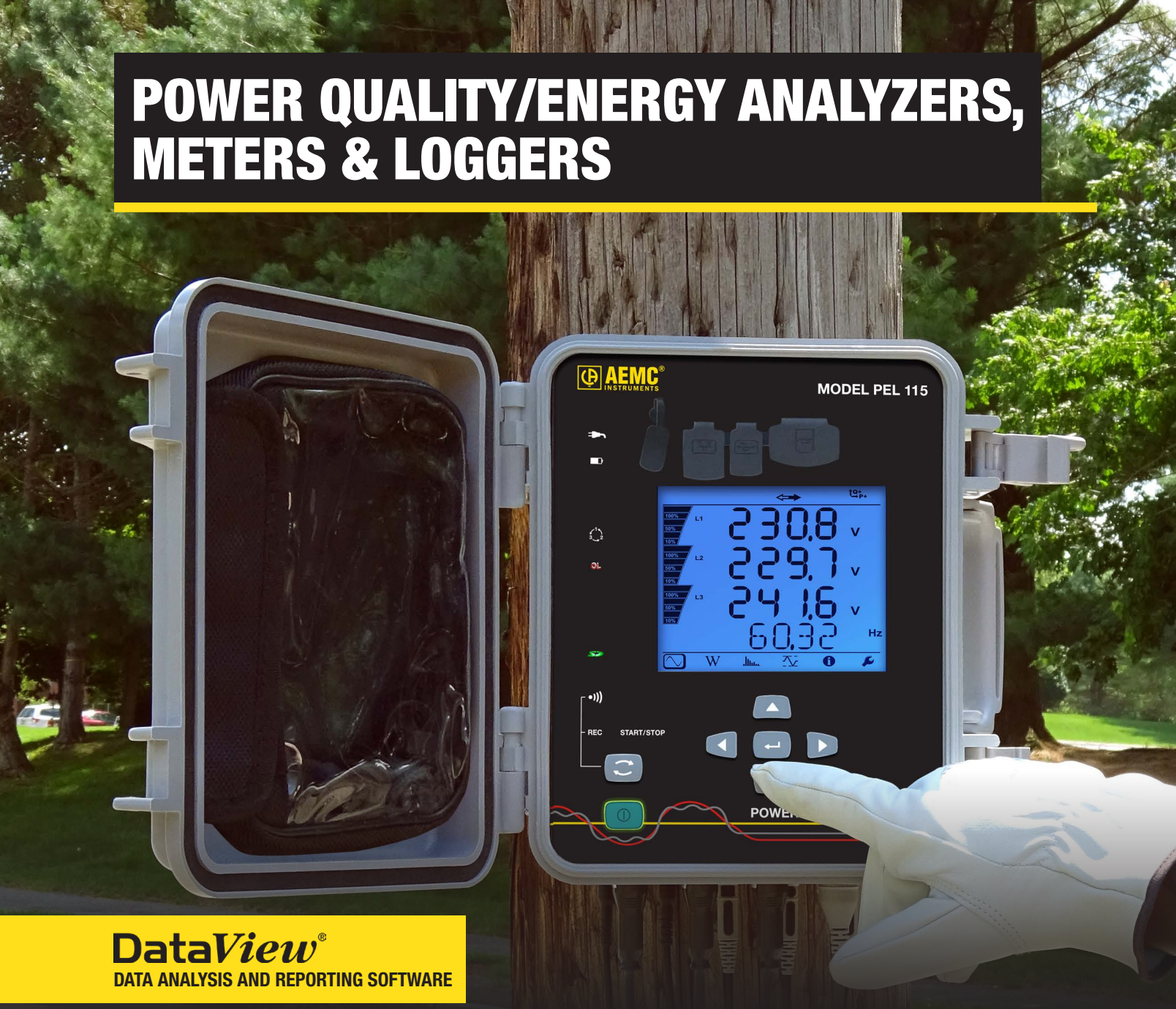
POWER QUALITY/ENERGY ANALYZERS, METERS & LOGGERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Power Quality/Energy Analyzers, Meters & Loggers?

As an electrician or a facility maintenance professional, it is crucial to troubleshoot and benchmark power quality issues over time. To make this process easy for you, we offer a line of portable power quality analyzers, power and energy loggers, and meters that are user-friendly. Our products are designed to identify power, quality, and energy waste in your facility, ensure continuity of service, find intermittent problems with voltage, detect power issues before they become costly problems, and record trend, transient, event, and harmonic data simultaneously. This will save you time in finding problem areas and assist in capturing accurate power and energy data necessary to maintain optimum performance and reliability. Additionally, all needed probes and accessories are included, so you don't have to worry about guesswork and be sure you have everything you need.

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

IP 54 | 1000 V CAT IV | WEB SERVER

POWERPAD® IV MODEL 8345

The PowerPad® moves up a grade – Class A!



True InRush®

AUTOMATIC REPORT GENERATION
DataView®

POWERPAD IV Class A

DataViewSync™

WARRANTY 3 YEARS WARRANTY
* UPON REGISTERING

PRODUCT INCLUDES

CAT. #2136.35 POWERPAD® IV MODEL 8345 ***(WITHOUT SENSORS)***

CAT. #2136.36 POWERPAD® IV MODEL 8345 ***(WITH (4) MINIFLEX® MA194-24-BK FLEXIBLE CURRENT SENSORS)***

CAT. #2136.37 POWERPAD® IV MODEL 8345 ***(WITH (4) AMPFLEX® 193-24-BK FLEXIBLE CURRENT SENSORS) (SHOWN)***

Extra large tool bag, internal carrying pouch, hand strap, USB cable, (5) 10 ft black voltage leads with alligator clips, color-coded input ID markers, power adapter with US power cord, (2) 6 ft stackable leads, (2) 10 ft black voltage leads with alligator clips for power adapter, SD Card, (1) power plug adaptor, battery pack, quick start guide, and USB drive with DataView® software and user manual.



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

See pages 188 to 190 for Accessories/Replacements

MODEL	8345
ELECTRICAL	
Power System Configurations	1 ph / split ph / 3 ph Δ, Y & DC
Nominal Frequency	(50, 60) Hz
PWM / VFD Compatible	No
Voltage	
Inputs	5
AC Range (ph - ph / ph-n)	2000 V / 1000 V
DC Range	2400 V
Typical Accuracy	+/- 0.1 %
Current	
Inputs	4
AC Range	5 mA(1) to 10,000 A(2)
DC Range	100 mA(3) to 5000 A(4)
RECORDING	
RMS Aggregation periods	200 ms to 120 m
Max recording time 1 s aggregation periods (5)	15 d
Max recording time 200 ms aggregation periods (5)	3 d
Max recording time 15 min aggregation periods (5)	1 y
RMS Trends	Yes
RMS Alarm Capture	Yes
Transient and Inrush Waveform Capture	Yes
Included Storage	16 GB SD card
Clock	GPS, NTC, user preset
MEASUREMENTS	
IEC 61000 Accuracy Class	Class A
Sampling Rate *(samples per cycle)*	512 (30.72 kHz) (6)
Power Values	VA, W, var, PF, Unbalance, Distortion
Energy Values	VAh, Wh, varh
Harmonics THD: % r, % f	Yes
Harmonics Range	1 to 127th Order
Interharmonics Range	1 to 126th Order
Phase Angle Degrees	Yes
Flicker	Yes
Voltage Sag Detection	Yes
Voltage Swell Detection	Yes
Rapid Voltage Change Detection	Yes
COMMUNICATION & REPORTING	
Communication	USB, Wi-Fi, Ethernet, DataViewSync®
Email Reports	Yes
DISPLAY	
Screen	7 in (800 × 480) LCD Touchscreen
Real-Time Display	Waveform, RMS Measurements
POWER	
Battery	Lithium - Ion Battery Pack
Battery Life	~ 10 h
Power Supply	Phase & Line Power Adapter
MECHANICAL, SAFETY & ENVIRONMENT	
Mounting	Stand
CAT Rating	1000 V CAT IV
IP Rating	IP54

Consult factory for NIST Calibration prices.

(1) With MN193 current probe
(2) With any MiniFlex® or Ampflex® current sensors
(3) With E94 current probe
(4) With J93 current probe *(special order only)*
(5) Using EN50160 parameters with the supplied SD card
(6) At 60 Hz nominal frequency

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

POWERPAD® IV MODEL 8345

FEATURES

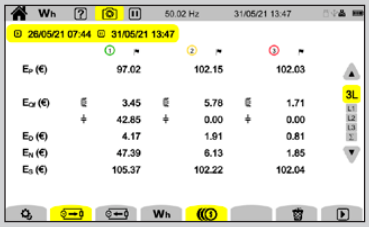
- **Touch screen portable Class A Power Quality Analyzer** built for single-, split- and 3-phase power systems
- **Setup and analyze data** directly from the instrument, remotely over a network connection or via included DataView® software
- 512 samples a second with real-time display of:
  - Color waveforms
  - RMS values
  - Phasor with real-time phase angle and unbalance values
  - Harmonic content bargraphs
  - Power and Energy displays
- Precision **timestamped capture of voltage** quality issues like sags and swells **with alarm mode**
- **Customizable RMS trend mode recordings** highlighting issues like unbalance and reactive power, as well as **perform load analysis** with power **consumption logging**
- **Fast waveform capture of Inrush** startup currents on motors and transformers
- **Harmonic analysis** includes THD% and factorized harmonics to the 127th order, harmonic % and voltage can be analyzed in %f or %r for IEEE 519 compliance, **view and log interharmonics** to the 126th order
- **Two transient capture modes** allow for various thresholds to be set for **fast high impulse transients** as *Shockwaves* as well as **less intense longer duration transients** like ringwave type transients

APPLICATIONS

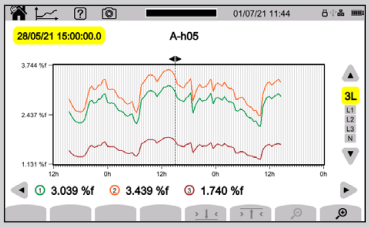
- **Commissioning and troubleshooting power systems** for voltage quality with real-time waveform display and reporting features
- **Perform power harmonic studies** with long-term trend recordings
- Inrush waveform capture for **motor startup issues**
- **Capture voltage sags** with alarms
- Perform **comprehensive power quality analysis studies** with pre-configured or user defined monitor mode campaigns

Large Functional Displays

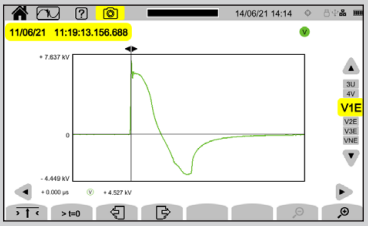
ENERGY EVALUATION



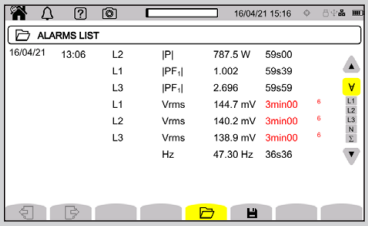
TREND



SHOCKWAVES



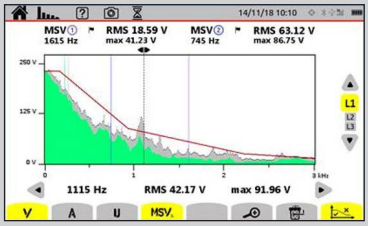
ALARMS



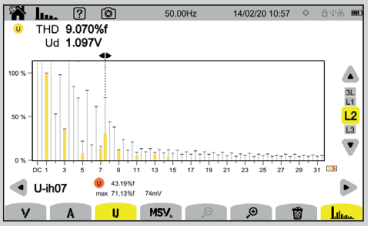
TRANSIENTS



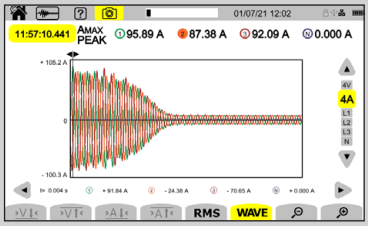
CARRIER CURRENT



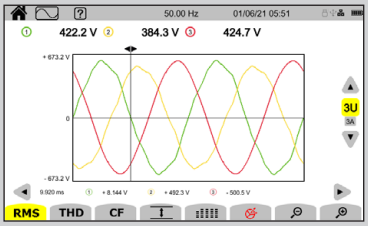
INTERHARMONICS *(HARMONIC MODE)*



TRUE INRUSH®



WAVEFORM



CAT. #	DESCRIPTION
2136.35	PowerPad® IV Model 8345 (no probes)
2136.36	PowerPad® IV Model 8345 with (4) MA194-24-BK MiniFlex® Sensors
2136.37	PowerPad® IV Model 8345 with (4) 193-24-BK Sensors (regular AmpFlex®)

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IP53 | 1000 V CAT III | 600 V CAT IV

POWERPAD® III MODELS 8333 & 8336

Easy to operate power quality analyzers with trend, alarm, and transient capture functions.



8333



8336

WARRANTY 3 YEARS WARRANTY * UPON REGISTERING

** 3 YEAR WARRANTY ONLY APPLIES WHEN METER IS REGISTERED WITHIN 30 DAYS OF PURCHASE*

AUTOMATIC REPORT GENERATION
DataView®

PRODUCT INCLUDES

CAT. #2136.10 POWERPAD® III MODEL 8333 ***(WITHOUT SENSORS) (SHOWN)***
CAT. #2136.11 POWERPAD® III MODEL 8333 ***(WITH (3) 193-24-BK SENSORS)***
CAT. #2136.12 POWERPAD® III MODEL 8333 ***(WITH (3) MN193-BK PROBES)***

Extra large carrying bag, soft carrying pouch, (4) black 10 ft voltage leads, (4) black alligator clips, (12) color-coded input ID markers, NiMH battery, 110/240 V power adapter with US power cord, SD card, printed quick start guide, and USB drive with DataView® software and user manual.



CAT. #2136.30 POWERPAD® III MODEL 8336 ***(WITHOUT SENSORS)***
CAT. #2136.31 POWERPAD® III MODEL 8336 ***(WITH (4) 193-24-BK SENSORS)***
CAT. #2136.32 POWERPAD® III MODEL 8336 ***(WITH (4) MN193-BK PROBES)***

Extra large carrying bag, soft carrying pouch, (5) 10 ft black voltage leads with alligator clips, USB cable, color-coded input ID markers, 110/240 V power adapter with US power cord, SD card, printed quick start guide, and USB drive with DataView® software and user manual.

MODEL	8333	8336
ELECTRICAL		
Power System Configurations	1 ph / split ph / 3 ph Δ, Y & DC	
Nominal Frequency	(50, 60) Hz	
PWM / VFD Compatible	No	
Voltage		
Inputs	4	5
AC Range (ph - ph / ph-n)	2400 V / 1200 V	
DC Range	5000 V	
Typical Accuracy	± 0.5 % + 0.2 V	
Current		
Inputs	3	4
AC Range	5 mA[1] to 10,000 A[2]	
DC Range	5000 A[3]	
RECORDING		
RMS Aggregation periods	1 s to 15 m	
Max recording time 1 s aggregation periods [4]	1 d	12 d
Max recording time 200 ms aggregation periods [4]	N/A	
Max recording time 15 min aggregation periods [4]	1 y	
RMS Trends	Yes	
RMS Alarm Capture	Yes	
Transient and Inrush Waveform Capture	Yes *(transients only)*	Yes
Included Storage	SD card	
Clock	User preset	
MEASUREMENTS		
IEC 61000 Accuracy Class	Class B	
Sampling Rate *(samples per cycle)*	256 (15.36 kHz) [5]	
Power Values	VA, W, var, PF, Unbalance, Distortion	
Energy Values	VAh, Wh, varh	
Harmonics THD: % r, % f	Yes	
Harmonics Range	1 to 50th Order	
Interharmonics Range	N/A	
Phase Angle Degrees	Yes	
Flicker	Yes	
Voltage Sag Detection	Yes	
Voltage Swell Detection	Yes	
Rapid Voltage Change Detection	N/A	Yes
COMMUNICATION & REPORTING		
Communication	USB, DataView®	
Email Reports	N/A	
DISPLAY		
Screen	(320 × 240) Color VGA	
Real-Time Display	Waveform, RMS measurements	
POWER		
Battery	NiMH battery pack	
Battery Life	~ 14 h	
Power Supply	Line power, optional phase power adapter	
MECHANICAL, SAFETY & ENVIRONMENT		
Mounting	Stand	
CAT Rating	600 V CAT IV, 1000 V CAT III	
IP Rating	IP53	

Consult factory for NIST Calibration prices.

[1] With MN193 current probe
[2] With any MiniFlex® or Ampflex® current sensors
[3] With J93 current probe *(special order only)*
[4] Using EN50160 parameters with the supplied SD card
[5] At 60 Hz nominal frequency

Technical Assistance (800) 343-1391
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AEMC® INSTRUMENTS

POWERPAD® III MODELS 8333 & 8336

Captures and Records Transients & Events Simultaneously!

FEATURES

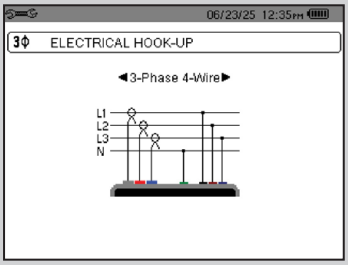
- **Portable Power Quality Analyzer for both AC and DC power systems**, setup recordings and analyze data from the color screen, build reports using the included DataView® software
- **Model 8336 directly measures neutral to ground voltage and neutral current** with its 5 voltage and 4 current inputs, while **Model 8333 calculates neutral current with 4 channels of voltage and 3 channels of current**
- 256 samples a second with simultaneous three-phase real-time display of:
  - Color waveforms
  - RMS values
  - Phasor
  - Harmonic content bargraphs
  - Power and Energy
- Capture both short and long voltage fluctuations, current imbalance, or other PQ events with custom alarm triggers, **Model 8336 supports up to 40 unique alarm triggers**, while **Model 8333 supports up to 10 unique alarm triggers**
- **Expert mode harmonic displays** harmonic angles and energy content to determine if the source is upstream or downstream of recorder
- **Bi-directional harmonic display** indicates harmonic power flow to determine if the source is upstream or downstream of recorder
- **Transient** *(both models)* **and Inrush capture** *(Model 8336 only)* for advanced start-up troubleshooting of transformers and motors

APPLICATIONS

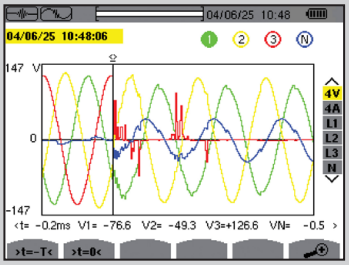
- **Trend record harmonic content** to ensure compliance with standards and specifications
- **Commission 3-phase systems** with simultaneous real-time display of voltage and current, phase angle and unbalance, quickly document measurements with snapshot screen capture function
- **Quickly troubleshoot equipment failures** with monitor mode templates and reports
- **Capture voltage, flicker values, locate failing DC components,** and other power quality problems with detailed alarm triggers

Large Functional Displays

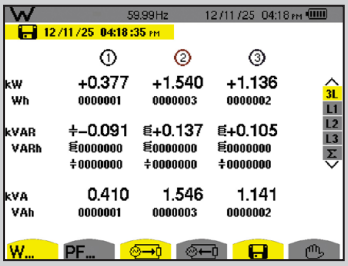
CONFIGURATION



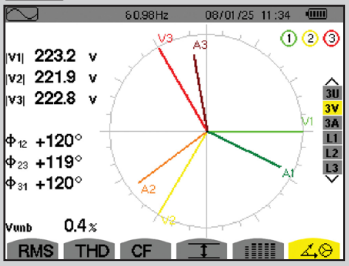
TRANSIENT MODE



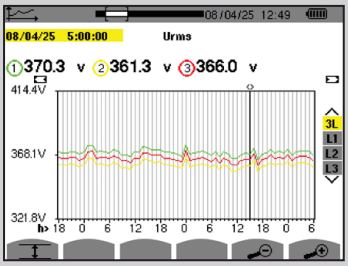
POWER AND ENERGY MODE



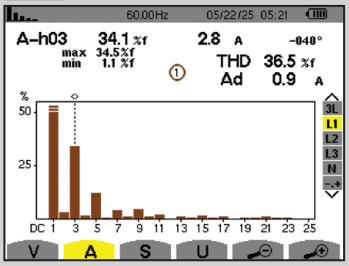
PHASOR DIAGRAM



RECORDING MODE



HARMONICS MODE



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

See pages 188 to 190 for Accessories/Replacements

CAT. #	DESCRIPTION
2136.10	PowerPad® III Model 8333 (no probes)
2136.11	PowerPad® III Model 8333 with 3 193-24-BK Sensors
2136.12	PowerPad® III Model 8333 with 3 MN193-BK Probes
2136.30	PowerPad® III Model 8336 (no probes)
2136.31	PowerPad® III Model 8336 with 4 193-24-BK Sensors
2136.32	PowerPad® III Model 8336 with 4 MN193-BK Probes

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POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

THREE-PHASE POWER QUALITY ANALYZERS

IP 67 | 1000 V CAT III | 600 V CAT IV | True RMS | CE | Double Insulated

POWERPAD® III MODEL 8436

Supplied with an 8 GB SD card for storing up to 2 GB trend recordings (4) current and (5) voltage input terminals.



Watertight Outdoor Enclosure!

WARRANTY 3 YEARS WARRANTY * UPON REGISTERING

** 3 YEAR WARRANTY ONLY APPLIES WHEN METER IS REGISTERED WITHIN 30 DAYS OF PURCHASE*

AUTOMATIC REPORT GENERATION

DataView®

FEATURES

- **IP67-rated, pole-mountable power quality analyzer** with watertight leads for harsh outdoor environments
- **Flexible power options:** AC phase or line powered; records up to 15 hours on a single battery charge for DC systems or locations without line power
- **High-resolution sampling at 256 samples per cycle** with adjustable RMS aggregation periods; timestamped as fast as 1 second for detailed power quality analysis or extended recording time
- **Advanced transient waveform capture** compares events to previous cycles for **fast, accurate triggering**; stores **up to 210 transients with full waveform data**
- **Comprehensive harmonic analysis:** measures and logs **THD% and individual harmonics up to the 50th order; expert mode** shows harmonic energy content and phase angles to identify impact and source direction
- **Pre-configured EN50160 monitoring mode**, fully customizable for detailed reports; **pass/fail thresholds**, transient capture settings, and voltage alarm triggers available
- **8 GB SD card** included and **upgradeable** to support multiple recording sessions
- **CAT IV safety rating** for safe operation in a **wide range of environments**

APPLICATIONS

- Use real time measurements displayed on the screen as a portable 3-phase panel meter for outdoor panels and transformers, display and log voltage, current, phase angle, harmonics, and power measurements
- Plot facility harmonics with timestamped aggregated measurements, allowing for hour by hour analysis of harmonic distortion values
- Capture disruptive power quality events like lightning created transients at remote locations with the 8346's IP67 rated, pole mounted enclosure

MODEL	8436
ELECTRICAL	
Power System Configurations	1 ph / split ph / 3 ph Δ, Y & DC
Nominal Frequency	(50, 60) Hz
PWM / VFD Compatible	No
Voltage	
Inputs	5
AC Range (ph - ph / ph-n)	2000 V / 1000 V
DC Range	2000 V
Typical Accuracy	± 0.5 % + 0.2 V
Current	
Inputs	4
AC Range	5 mA(1) to 10,000 A(2)
DC Range	5000 A(3)
RECORDING	
RMS Aggregation periods	1 s to 15 m
Max recording time 1 s aggregation periods (4)	12 d
Max recording time 200 ms aggregation periods (4)	N/A
Max recording time 15 min aggregation periods (4)	1 y
RMS Trends	Yes
RMS Alarm Capture	Yes
Transient and Inrush Waveform Capture	Yes
Included Storage	SD card
Clock	User preset
MEASUREMENTS	
IEC 61000 Accuracy Class	Class B
Sampling Rate *(samples per cycle)*	256 (15.36 kHz)(5)
Power Values	VA, W, var, PF, Unbalance, Distortion
Energy Values	VAh, Wh, varh
Harmonics THD: % r, % f	Yes
Harmonics Range	1 to 50th Order
Interharmonics Range	N/A
Phase Angle Degrees	Yes
Flicker	Yes
Voltage Sag Detection	Yes
Voltage Swell Detection	Yes
Rapid Voltage Change Detection	N/A
COMMUNICATION & REPORTING	
Communication	USB, DataView®
Email Reports	N/A
DISPLAY	
Screen	320 × 240 Color VGA
Real-Time Display	Waveform, RMS Measurements
POWER	
Battery	NiMH Battery pack
Battery Life	~ 14 h
Power Supply	Line power, optional phase power adapter
MECHANICAL, SAFETY & ENVIRONMENT	
Mounting	Pole Mount
CAT Rating	600 V CAT IV, 1000 V CAT III
IP Rating	IP67

Consult factory for NIST Calibration prices.

(1) With MN193 current probe
(2) With any MiniFlex® or Ampflex® current sensors
(3) With J93 current probe *(special order only)*
(4) Using EN50160 parameters with the supplied SD card
(5) At 60 Hz nominal frequency

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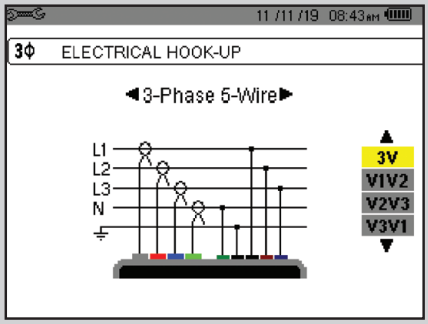
POWERPAD® III MODEL 8436

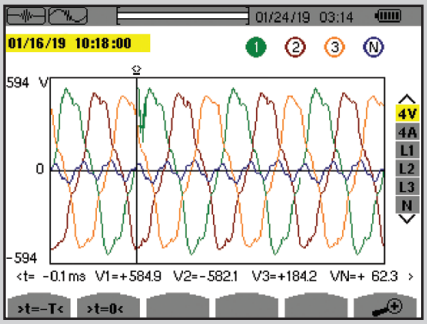
Captures and Records Transients, Events & Waveforms Simultaneously!

Large Color Functional Displays

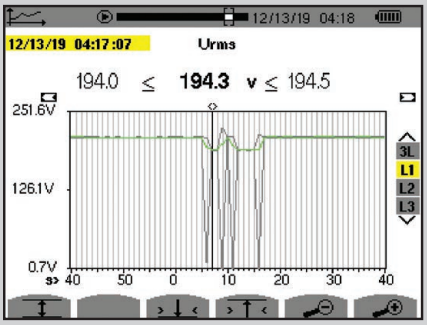
CONFIGURATION



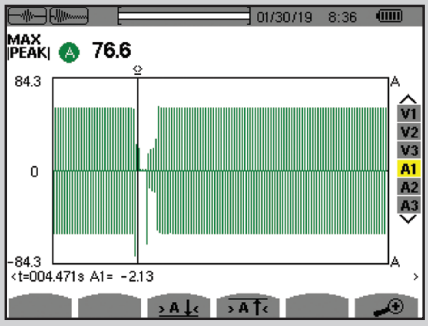
TRANSIENT MODE



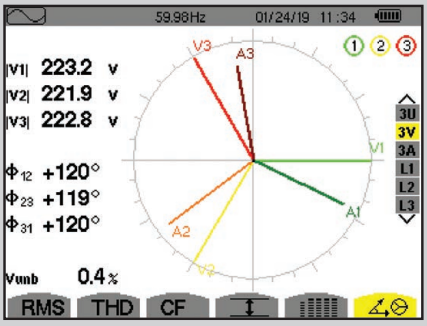
TREND ANALYSIS



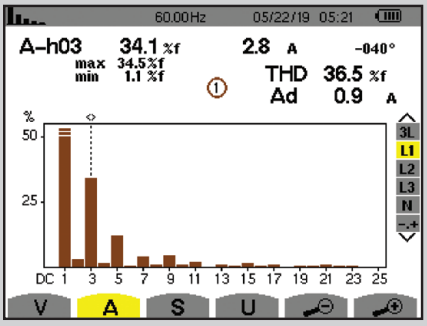
INRUSH PEAK



PHASOR DIAGRAM



HARMONICS MODE



PRODUCT INCLUDES

CAT. #2136.43 POWERPAD® III MODEL 8436 ***(WITHOUT SENSORS)***

CAT. #2136.44 POWERPAD® III MODEL 8436 ***(WITH (4) 196A-24-BK SENSORS) (SHOWN)***

Extra large tool bag, accessory pouch, 5 ft USB cable, (5) 10 ft black voltage leads with alligator clips, power cord, line power cord, (12) color-coded input ID markers, (4) water-tight AmpFlex® 196A-24-BK sensors, battery, SD card, printed quick start guide, high-voltage warning card, and a USB drive with DataView® software and user manual.



INSTALLATION OF THE LEADS AND CURRENT SENSORS

Color-coded ID markers are supplied with the PowerPad® III to identify the leads and input terminals.



The voltage and current inputs, as well as the power cord connection are constructed with screw on, watertight connectors rated to IP67.

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

See pages 188 to 190 for Accessories/Replacements

CAT. #	DESCRIPTION
2136.43	PowerPad® III Model 8436 (No Sensors - Waterproof IP67)
2136.44	PowerPad® III Model 8436 with (4) 196A-24-BK (AmpFlex®- Waterproof IP67)

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IP 54 | 1000 V CAT III | 600 V CAT IV | ETHERNET

MODEL PEL 112

Supports Negative Temperatures!
Great for use in Cold Rooms (Down to -4 °F).



Records load study data up to 1 year!

5x Faster!
(Than the PEL 102)

AUTOMATIC REPORT GENERATION
DataView®
DataViewSync™

Phase Powered

PRODUCT INCLUDES

CAT. #2137.63 POWER & ENERGY LOGGER MODEL PEL 112
(WITHOUT SENSORS)

CAT. #2137.53 POWER & ENERGY LOGGER MODEL PEL 112
(WITH (3) MA193-10-BK SENSORS) (SHOWN)

Small classic tool bag, (3) MiniFlex® MA193-10-BK Sensors, (4) 10 ft black test leads in reeling box, (4) black alligator clips, set of (12) color-coded input ID markers, 8 GB SD-card *(installed)*, USB SD-card reader, USB Type-A to Type-B cable, power cord, AAA battery *(installed)*, quick start guide, and USB drive with DataView® software and user manual.



FEATURES

- Rugged and portable single-, split- and three-phase power and energy logger with a panel fitting form factor
- Simple, pre-built recording and reporting templates for 30-day load studies, 17 different power system configurations available
- Available as a kit with 10 in flexible current sensors large enough for parallel feeders and bus bars, longer sensor lengths available for larger installations
- Log high resolution data at 200 ms aggregation periods for up to 10 days for precision power analysis, use longer aggregations (5 to 15 minutes) for quick load and energy studies
- Trend data includes power (VA, W, var), power factor as well as unbalance and harmonic distortion, analyze factorized harmonics to the 50th order
- View 3 channels of real-time voltage, current, and power measurements. A real-time phasor from the Android™ app and PC DataView® software.

ANDROID™ APP AVAILABLE
FOR PEL 112, 113 & 115

- Configure measurements and recordings
- Display data in real-time
- For use on devices with an Android™ platform
- Software sensors providing all comprehensive and instantaneous motors electrical parameters such as rotation speed, efficiency and torque



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

See pages 188 to 190 for Accessories/Replacements

CAT. #	DESCRIPTION
2137.63	Power & Energy Logger Model PEL 112 (No LCD, No Sensors)
2137.53	Power & Energy Logger Model PEL 112 (No LCD, with (3) MA193-10-BK)

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POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

PEL 110 SERIES

IP 54 | 1000 V CAT III | 600 V CAT IV

MODEL PEL 113

Effortless Energy Logging for Smarter Power Management!



Records load study data up to 1 year!

5x Faster!
(Than the PEL 103)

AUTOMATIC REPORT GENERATION

DataView®
DataViewSync™

Phase Powered

FEATURES

- Rugged and portable single-, split- and three-phase power and energy logger with a panel fitting form factor
- Simple, pre-built recording and reporting templates for 30-day load studies, 17 different power system configurations available
- Available as a kit with 10 in flexible current sensors large enough for parallel feeders and bus bars, longer sensor lengths available for larger installations
- Log high resolution data at 200 ms aggregation periods for up to 10 days for precision power analysis, use longer aggregations (5 to 15 minutes) for quick load and energy studies
- Trend data includes power (VA, W, var), power factor as well as unbalance and harmonic distortion, analyze factorized harmonics to the 50th order
- View 3 channels of real-time voltage, current and power measurements from the screen, a real-time phasor is available from the Android™ app and PC DataView® software

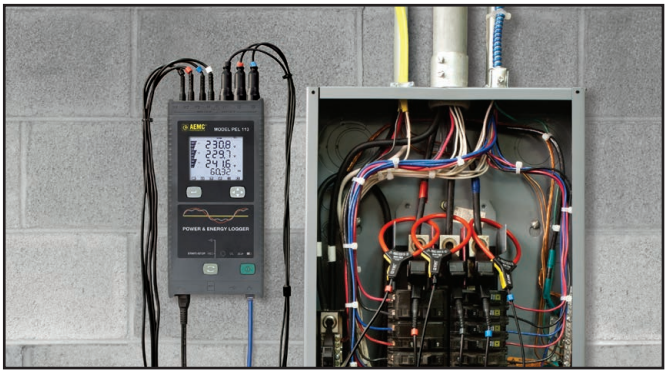
PRODUCT INCLUDES

CAT. #2137.64 POWER & ENERGY LOGGER MODEL PEL 113
(WITHOUT SENSORS) (SHOWN)

CAT. #2137.54 POWER & ENERGY LOGGER MODEL PEL 113
(WITH (3) MA193-10-BK SENSORS)

Small classic tool bag, (3) MiniFlex® MA193-10-BK Sensors, (4) 10 ft black test leads in reeling box, (4) black alligator clips, set of (12) color-coded input ID markers, 8 GB SD-card *(installed)*, USB SD-card reader, USB Type-A to Type-B cable, power cord, AAA battery *(installed)*, quick start guide, and USB drive with DataView® software and user manual.





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

See pages 188 to 190 for Accessories/Replacements

CAT. #	DESCRIPTION
2137.64	Power & Energy Logger Model PEL 113 (with LCD, No Sensors)
2137.54	Power & Energy Logger Model PEL 113 (with LCD, with (3) MA193-10-BK)

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MODEL PEL 115

IP 54 cover open | IP 67 cover closed | 1000 V CAT IV

Watertight Three-Phase Power and Energy Logger.



Recordings Covering Several Months!

AUTOMATIC REPORT GENERATION
DataView®
DataViewSync™

PRODUCT INCLUDES

CAT. #2137.56 POWER & ENERGY LOGGER MODEL PEL 115 ***(WITHOUT SENSORS)***

CAT. #2137.58 POWER & ENERGY LOGGER MODEL PEL 115 ***(WITH (4) 196A-24-BK SENSORS) (SHOWN)***

Extra large carrying bag with rubber bottom, (4) AmpFlex® sensors 24 in *(waterproof - IP67)*, Model 196A-24-BK, (5) leads 10 ft (3 m) *(black, waterproof cap)* with (5) alligator clips *(black)*, power adapter with power cord, cable - 5 ft USB, SD-card (8 GB), USB SD- card reader, set of (12) color-coded input ID markers, battery *(installed)*, set of (4) large and (5) small caps *(water-tight)*, quick start guide, and USB drive with DataView® software and user manual.

Phase Powered



FEATURES

- Harsh environment RMS Power and Energy logger for single-, split- and three-phase power systems
- 5 voltage and 4 current inputs, allowing for neutral current and voltage to be directly measured
- AC phase power and a ride through battery keeps the instrument logging through short power outages to capture startup conditions
- Harmonic THD% for voltage and current, plus factorized values to the 50th order
- DC voltage and current logging for renewable applications *(sensor dependent)*
- Wi-Fi connectivity with easy remote access using DataViewSync®
- Available pole mounting kit for flexible installation



APPLICATIONS

- Perform load profiling on outdoor panels and transformers
- Capture fast multi-cycle voltage disturbances with 200 ms aggregation periods
- Log and remotely access energy consumption reports on off-grid power systems

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

See pages 188 to 190 for Accessories/Replacements

CAT. #	DESCRIPTION
2137.56	Power & Energy Logger Model PEL 115 (No sensors, Waterproof IP67, DataView® Software)
2137.58	Power & Energy Logger Model PEL 115 with (4) 196A-24-BK (Waterproof IP67, DataView® Software)

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POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

PEL 110 SERIES

MODEL	PEL 112	PEL 113	PEL 115
ELECTRICAL			
Power System Configurations	1 ph / split ph / 3 ph Δ, Y & DC		
Nominal Frequency	(50, 60, 400) Hz		
PWM / VFD Compatible	No		
Voltage			
Inputs	4		5
AC Range (ph - ph / ph-n)	1000 V		
DC Range	1000 V		
Typical Accuracy	+/- .2 % +.2 V		
Current			
Inputs	3		4
AC Range	5 mA[1] to 12,000 A[2]		
DC Range	5000 A[3]		
RECORDING			
RMS Aggregation periods	200 ms to 60 m		
Max recording time 1 s aggregation periods [4]	1 month		15 weeks
Max recording time 200 ms aggregation periods [4]	10 days		21 days
Max recording time 15 min aggregation periods [4]	1 year		3 years
RMS Trends	Yes		
RMS Alarm Capture	Yes *(email reports optional)*		
Transient and Inrush Waveform Capture	N/A		
Included Storage	8 GB SD Card		
Clock	User preset		
MEASUREMENTS			
IEC 61000 Accuracy Class	N/A		
Sampling Rate *(samples per cycle)*	128 (7.68 kHz)[5]		
Power Values	VA, W, var, PF, Unbalance, Distortion		
Energy Values	VAh, Wh, varh		
Harmonics THD: % r, % f	Yes		
Harmonics Range	1 to 50th Order		
Interharmonics Range	N/A		
Phase Angle Degrees	Yes		
Flicker	N/A		
Voltage Sag Detection	Sags with duration > 200 ms *(Email Alarm Reports)*		
Voltage Swell Detection	Email Alarm Reports		
Rapid Voltage Change Detection	N/A		
Quick Load Study Configuration	Yes		
COMMUNICATION & REPORTING			
Communication	USB, Ethernet, Wi-Fi, DataView® Software, DataViewSync®		
Email Reports	Yes		
DISPLAY			
Screen	N/A	(2.6 × 2.1) in (68 × 55) mm LCD	(4.2 × 3.3) in (107 × 84) mm LCD
Real-Time Display	N/A	RMS Measurements	
POWER			
Battery	NiMH battery pack		
Battery Life	~1 hour *(ridethrough only)*		
Power Supply	Line power, Optional phase power adapter		Phase & Line power adapter
MECHANICAL, SAFETY & ENVIRONMENT			
Mounting	Magnets		Pole Mounted
CAT Rating	600 V CAT IV, 1000 V CAT III		1000 V CAT IV
IP Rating	IP54		IP67

Consult factory for NIST Calibration prices.

[1] With MN193 current probe
[2] With any MiniFlex® or Ampflex® current sensors
[3] With J93 current probe *(special order only)*
[4] Using EN50160 parameters with the supplied SD card
[5] At 60 Hz nominal frequency

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OPTIONAL ACCESSORIES

MODEL	CAT. #	MAX CONDUCTOR SIZE	ACCURACY *(TYPICAL)*[1]	CURRENT RANGE[1]	
MiniFlex® Model MA193-10-BK* & MiniFlex® Model MA193-14-BK* & MiniFlex® Model MA194-24-BK*  **10, 14 & 24 in Sensor**	**2140.48 (10 in sensor)**	2.75 in (70 mm) (10 in sensor)	± 1 %	PELs: 200 mA to 12,000 AAC [1]	
	2140.50 (14 in sensor)	3.94 in (100 mm) (14 in sensor)			
	2140.80 (24 in sensor)	7.64 in (194 mm) (24 in sensor)		PowerPad®: 100 mA to 10,000 AAC [1]	
AmpFlex® Sensor 24 in Model 193-24-BK*& AmpFlex® Sensor 36 in Model 193-36-BK* 	**2140.34**	7.64 in (194 mm) (24 in sensor)	± 1 %	100 mA to 12,000 AAC [1]	
	2140.35	11.64 in (291 mm) (36 in sensor)			
AC/DC Current Probe Model MR193-BK 	**2140.28**	1.6 in (41 mm)	± 2.5 %	(1 to 1000) AAC (1 to 1300) ADC	
AC Current Probe Model MN93-BK 	**2140.32**	0.78 in (20 mm)	± 1 %	(0.5 to 240) AAC	
AC Current Probe Model SR193-BK 	**2140.33**	2.05 in (52 mm)	± 0.3 %	(1 to 1200) AAC	
AC Current Probe Model MN193-BK 	**2140.36**	0.78 in (20 mm)	± 1 %	100 A	200 mA to 120 AAC
				5 A	5 mA to 6 AAC
AmpFlex® Sensor 24 in Model 196A-24-BK* ***(Waperproof IP67)*** 	**2140.75**	7.64 in (194 mm) (24 in sensor)	± 1 %	100 mA to 12,000 AAC [1]	
MiniFlex® Sensor 14 in Model MA196-14-BK* ***(Waperproof IP67)*** 	**2140.79**	3.9 in (99 mm) (14 in sensor)	± 1 %	100 mA to 12,000 AAC [1]	
AC Current Probe Model MN94 	**2140.81**	0.25 in (7 mm)	± 0.2 %	50 mA to 200 AAC	
AC / DC Current Probe Model E94 	**2140.82**	.464 in (11.8 mm)	± 3 %	**10 A**	100 mA to 10 AAC
			± 4 %	**100 A**	500 mA to 100 AAC

* Maximum current reduced by a factor of 2 for 400 Hz fundamental frequency.
All current sensors can be used with Models PEL 115 and 8436. However, only the MA196-14-BK and 196A-24-BK flexible sensors are waterproof.
[1] Current range may be limited by sensor size or meter type.
Consult factory for NIST Calibration prices.

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	8345	8333	8336	8436	PEL 112	PEL 113	PEL 115
	2118.09	General Carrying Case Dimensions: (13 × 9.5 × 3) in					•	•	•
	2118.49	Adapter – 110 V Outlet Adapter w/ 4 mm Banana Plugs	•	•	•	•	•	•	•
	2119.82	Multi–purpose Large Canvas Bag Dimensions: (22 × 10.5 × 12) in	•	•	•	•	•	•	•
	2133.72	Small Classic Tool Bag for field use 12 Exterior and 14 Interior pockets Dimensions: (13.0 × 9.8 × 9.5) in	•	•	•	•			
	2133.73	Extra Large Classic Tool Bag Dimensions: (18 × 9 × 12) in	•	•	•	•			
	2136.80	Cable – 10 ft USB Type-A to Type-B	•	•	•	•	•	•	•
	2137.81	Battery – Replacement NiMH AAA 8.4 V					•	•	
	2137.82	Pole Mounting Kit	•			•			•
	2137.90	Adapter – 600 V CAT III Power to Phase Adapter					•	•	
	2140.15	Pouch – Replacement, Soft Carrying Pouch		•	•				
	2140.19	9.6 V NiMH *(color may vary)*	•	•	•	•			
	2140.40	Adapter – BNC Adapter for AC/DC Current Probe Models SL261 & SL361		•	•	•			
	2140.43	Set of (5), Black 10 ft (3 m) w/ (5) Black Alligator Clips	•	•	•	•			
	2140.44	Lead – One 10 ft (3 m) Black Lead w/ Black Alligator Clip (Lead rated 1000 V CAT IV 15 A, Clip rated 1000 V CAT IV 15 A, UL)	•	•	•	•	•	•	•
	2140.45	Replacement – Set of (12) Color Input ID Markers	•	•	•	•	•	•	•
	2140.73	Lead – (1) 10 ft (3 m) Black Lead *(Waterproof Cap)* (Rated 1000 V CAT IV) & (1) Black Alligator Clip (Rated 1000 V CAT IV, 15 A, UL)	•			•			•
	2140.77	Adapter – Phase Power Adapter		•	•				

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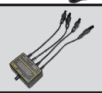
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	8345	8333	8336	8436	PEL 112	PEL 113	PEL 115
	2960.47	Battery – Replacement 5.8 AH 61.9 Wh Li–ion Battery Pack	•						
	5000.14	Power Cord 115 V	•	•	•	•	•	•	•
	5000.19	Power Adapter – Replacement (110 / 230) V with US Power Cord		•	•				•
	5000.43	Probe – Set of (2), color-coded (red/black) Magnetized Voltage Probes (Rated 600 V CAT IV, 1000 V CAT III)	•	•	•	•	•	•	•
	5000.45	USB SD – Card Reader					•	•	•
	5000.63	Power Cord 110 V				•			
	5000.67	Caps – Replacement Caps (Set 4 large, 5 small)				•			•
	5000.77	Cable Reeling Box for organizing leads less than 10 ft	•	•	•	•	•	•	•
	5000.88	Lead – Replacement Black Lead for CAT.#2140.77 – Power Phase Adapter							
	5000.89	Line Power Adapter (110 to 1000) VDC to 400 Hz				•			
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•
	5100.14	Adapter – Replacement Power Plug for PA32ER Power Supply	•						
	5100.15	Adapter – Replacement 1000 V PA32ER Power Supply	•						
	5100.16	Magnetic Hook	•						
	5100.18	Replacement Hand Strap	•						
	6000.07	Calibration Interface Adapter	•	•	•	•	•	•	•
	6000.09	AC Digital Signal Generator Model DSG–8	•	•	•	•	•	•	•

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AEMC® INSTRUMENTS

DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

AUTOMATIC REPORT GENERATION

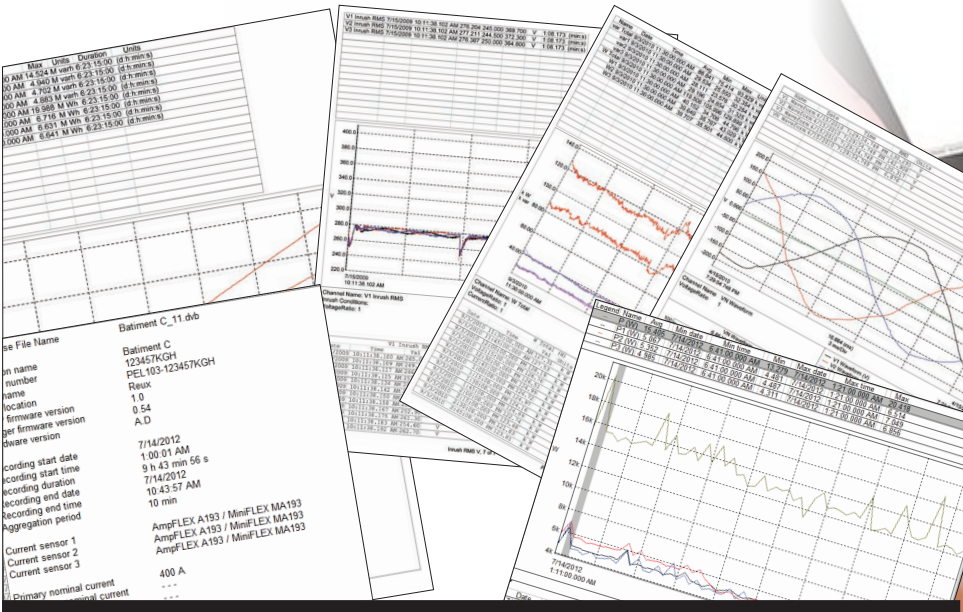
AEMC INSTRUMENTS www.aemc.com

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



Configure all functions:

- 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 spectrum, text summaries, transients, event logs and stored alarms
- Print reports using standard or custom templates you design
- Free updates available on our website ***www.aemc.com***





Reports can be displayed on a PC and printed. Each report includes all test results in a tabular and graphic format, as well as operator and test site information. Comments typed by the operator will also be included.

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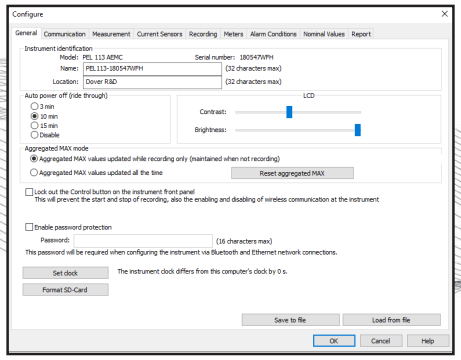
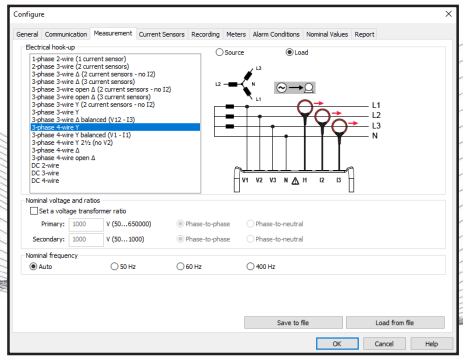
DataView®

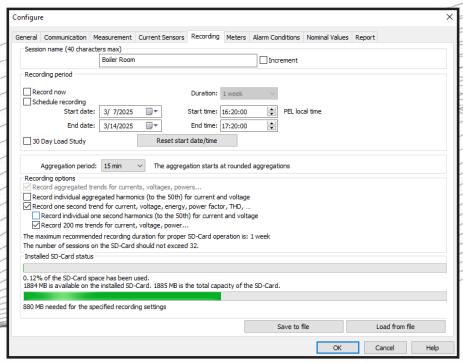
DATA ANALYSIS AND REPORTING SOFTWARE



Configure basic information regarding Auto Power OFF, instrument name and location, display contrast and brightness *(Models PEL 113 & PEL 115)*, setting of the real-time clock and SD-card formatting is easily accomplished from the General tab.



The Measurement tab configures the electrical distribution system, voltage ratios, and nominal frequency.

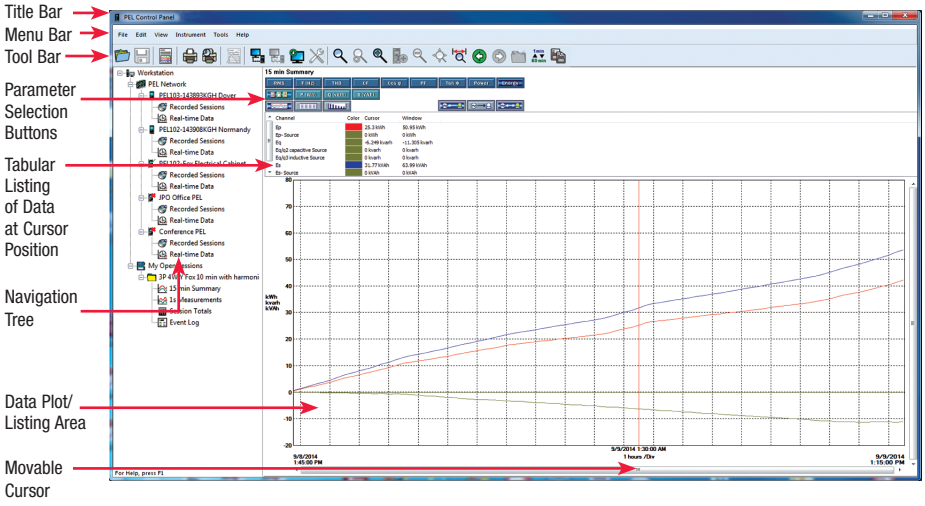


In the Recording tab, configure the instrument to measure *(and record)* over a user selectable recording period. Select demand intervals and view available memory for data storage.

Typical DataView® Functional Digital & Graphical Display

Control Panel Trend View

In the PEL Control Panel you will find all the necessary tools and selection buttons to review recorded data as trend plots or tabular lists.





NEW! Effortlessly Perform Load Study Analysis Meeting the NEC 220.87 Requirements with the PEL DataView® Control Panel Feature

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AEMC® INSTRUMENTS

DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

DataViewSync®

What is DataViewSync®?

DataViewSync® is AEMC® Instruments secure cloud-based communication service that enables remote access to data from PEL 110 Series and PowerPad® 8345 through the DataView® software platform. By acting as an intermediary server, DataViewSync® allows users to retrieve measurements, manage instruments, and analyze power and energy data over the internet. Even when instruments are located behind private networks. This eliminates the need for complex network configuration while maintaining secure, reliable remote data transfer between PEL and PowerPad® instruments and the user's PC running the PEL and PowerPad® DataView® Control Panel.

1

Connect

The instrument is configured for DataViewSync® and connected to the internet via Wi-Fi or Ethernet.

2

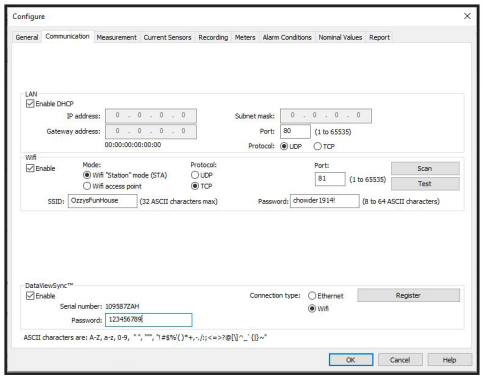
Authenticate

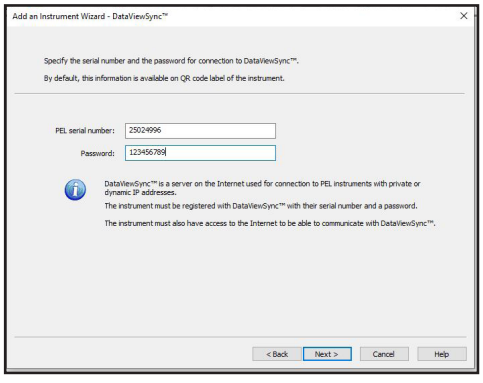
The user enters the instrument's serial number and credentials in DataView®, allowing the instrument to register securely with DataViewSync® sever.

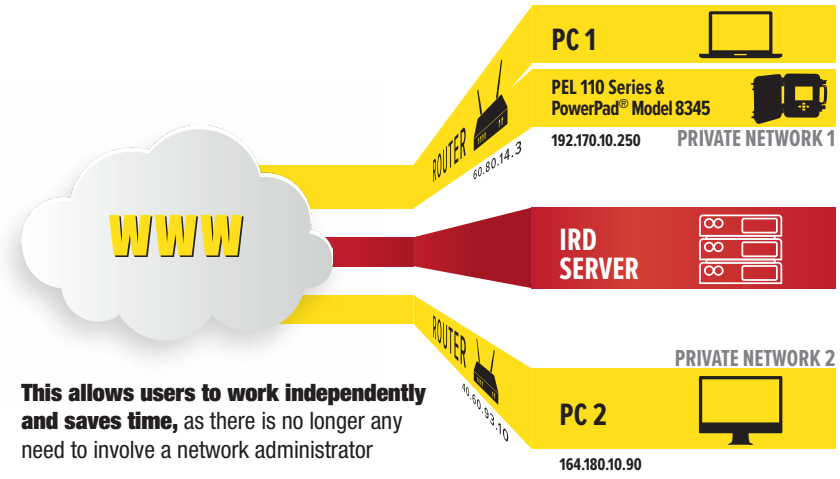
3

Analyze and Report

DataView® automatically synchronizes with the instrument, enabling remote display of real-time measurements, data transfer and reporting without direct network access or IT intervention.







This allows users to work independently and saves time, as there is no longer any need to involve a network administrator

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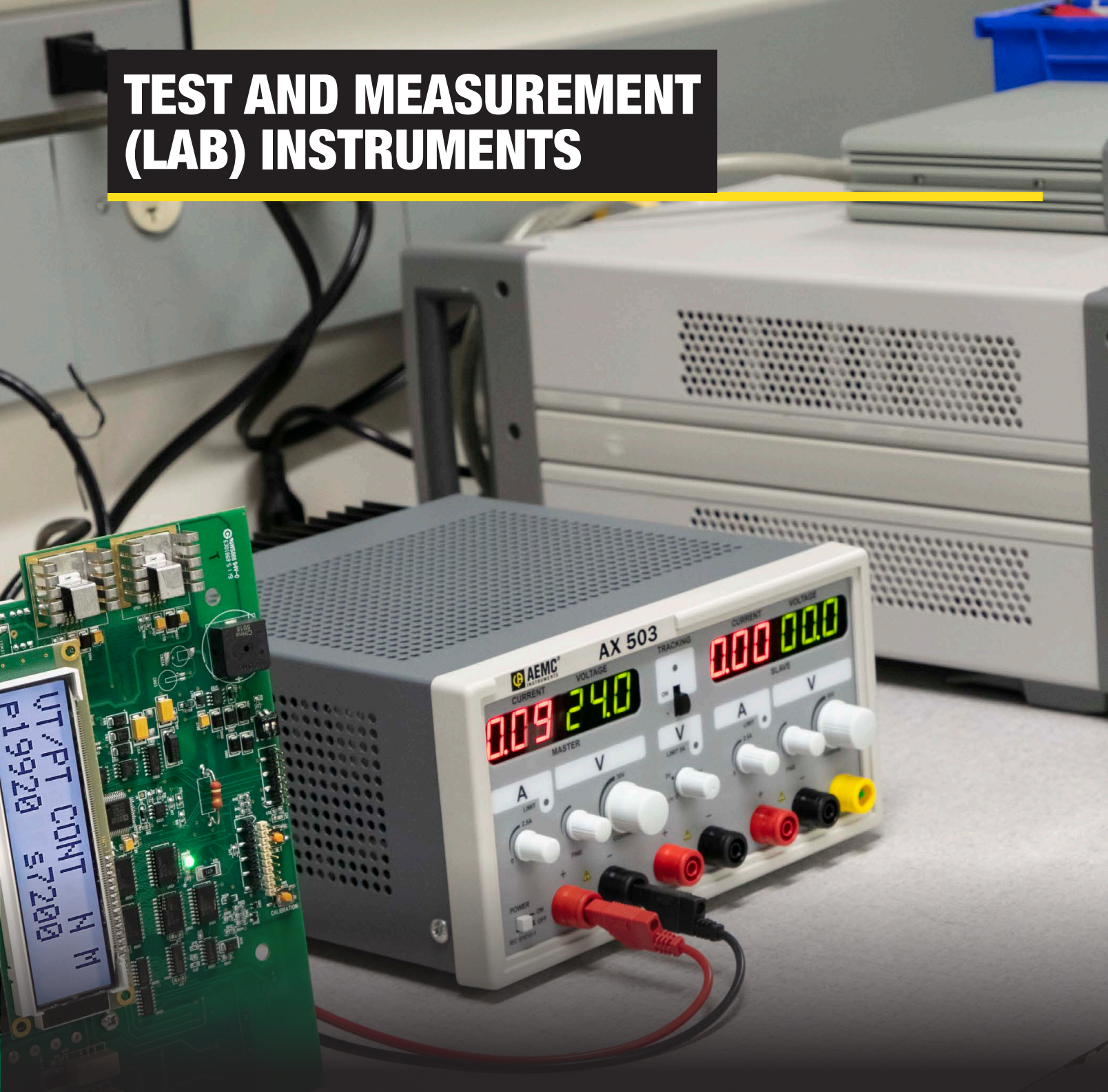
AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

Our Repair and Calibration lab stands out in the industry with an average turnaround time of ***under 15 days.***

We provide accredited calibration services, ensuring accurate and consistent results. We meticulously test and verify millions of data points, striving for complete customer satisfaction.

Engineered for Excellence
RELIABILITY WHEN IT MATTERS™

TEST AND MEASUREMENT (LAB) INSTRUMENTS



Why choose AEMC® Instruments Test and Measurement (Lab) Instruments?

From the lab bench to the facility floor, our test and measurement instruments cover precision work at both ends. Regulated, low-noise DC power supplies and precision decade resistance boxes deliver the controlled, traceable values that prototyping, production test, and calibration demand, while multifunction installation testers run the full IEC 61557 suite for commissioning, compliance verification, and the safety testing of facilities and appliances.

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

MODEL AX503

Regulated, low-noise DC power for lab, production, and education.



MODEL	AX503
OUTPUT	
Number of Outputs	3
Outputs 1 & 2 Voltage	(0 to 30) VDC adjustable
Output 3 Voltage	(2.7 to 5.5) VDC adjustable
Series Mode (Outputs 1 & 2)	(0 to 60) VDC / (0 to 2.5) A
Parallel Mode (Outputs 1 & 2)	(0 to 30) VDC / (0 to 5) A
Tracking	Proportional leader, follower tracking
PERFORMANCE	
Voltage Accuracy	± 0.5 % of Reading ± 1 ct
Current Accuracy	± 0.5 % of Reading ± 1 ct
Residual Ripple	+/- 1 mVRMS
Line Regulation (±10 % mains)	± 0.03 % of Reading ± 2 mV
Load Regulation (0 to 2.5 A)	± 0.02 % of Reading ± 5 mV
Load Regulation (0 to 5 A) Output 3	± 0.2 % of Reading ± 10 mV
GENERAL	
Display	Green (V) and Red (A) LED per output
Power Input	115 VAC, (50 / 60) Hz
Dimensions	(270 × 225 × 120) mm (10.63 × 8.86 × 4.73) in
Weight	6 kg (13.2 lb)
Protection	Current limit and thermal shutdown

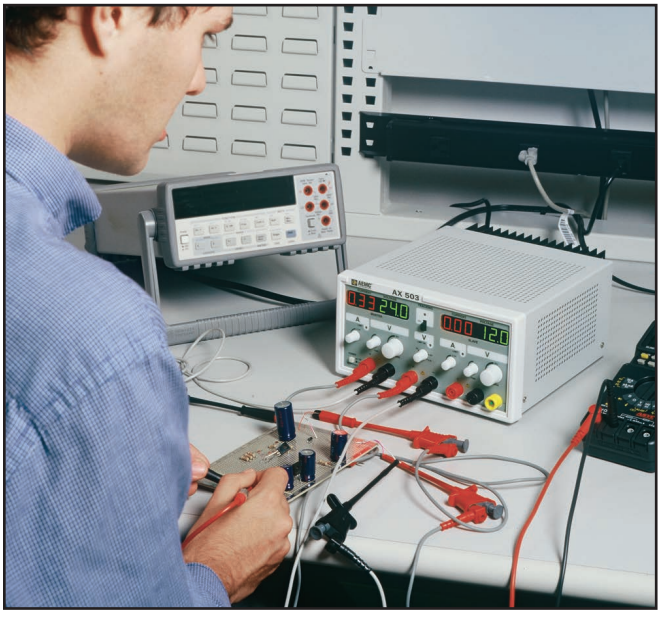
Consult factory for NIST Calibration prices.

FEATURES

- **Triple Output** — Two adjustable (0 to 30) V / (0 to 2.5) A outputs plus a (2.7 to 5.5) V, 5 A auxiliary output; up to 5 A in parallel mode
- **Series / Parallel / Tracking** — Outputs 1 & 2 can be combined for up to 60 V (series) or 5 A (parallel); proportional leader/follower tracking enables matched outputs
- **Low Noise** — < 1 mV RMS residual ripple — toroidal transformer with no fan and low electromagnetic emission
- **Active Protection** — Electronic current limiting with voltage shutdown plus thermal overheating protection
- **Dual LED Display** — Simultaneous green (voltage) and red (current) readout per output
- **Accuracy** — ± 0.5 % of Reading ± 1 ct on voltage and current

APPLICATIONS

- Power prototype circuits and component testing on the electronics bench
- Supply regulated DC for production-line functional test fixtures
- Provide symmetrical positive/negative supplies using tracking mode for op-amp and analog design work



See pages 199 for Accessories/Replacements

CAT. #	DESCRIPTION
2130.07	DC Power Supply Model AX503 (Triple outputs, two (0 to 2.5) A; (0 to 30) VDC; (2.7 to 5.5) VDC)

Technical Assistance (800) 343-1391
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IP 53 | 600 V CAT III | 300 V CAT IV | CE | ⧈

MODELS CA 6116N & CA 6117

Comprehensive installation testing for commissioning and compliance verification.



AUTOMATIC REPORT GENERATION
DataView®

FEATURES

- **Core Installation Tests** — Continuity and resistance (200 mA and 12 mA test currents), insulation resistance from 50 V to 1000 V rated, and earth resistance (3-point and selective)
- **Loop Impedance** — Measures Zs and Zi with TRIP and no-TRIP modes; calculates prospective fault current (0.1 A to 6 kA)
- **RCD Testing** — AC and A-type RCD trip testing with selectable IΔn from 6 mA to 1000 mA; B-type RCD testing *(Model CA 6117 only)*
- **Voltage Drop** — Calculates conductor ΔV % from loop impedance data for correct sizing verification *(Model CA 6117 only)*
- **Integrated Fuse Table** — On-instrument fuse pass/fail reference for fast loop-impedance interpretation *(Model CA 6117 only)*
- **Additional Measurements** — Automatic Voltage AC/DC detection to 550 V, frequency, phase rotation, single- and three-phase active power(1), and harmonics to the 50th order
- **Color Graphical Display** — 5.7 in backlit LCD (320 × 240) with USB data transfer and DataView® software
- **Safety Rating** — 300 V CAT IV / 600 V CAT III, IP53 ingress
- **Power** — Rechargeable Li-ion battery; up to 25 h runtime with built-in charger

(1) With compatible current clamps

APPLICATIONS

- Commission new electrical installations by performing the full suite of IEC 61557 tests before energization
- Verify RCD trip times, loop impedance, and earth continuity during periodic compliance inspections
- Diagnose installation faults using insulation resistance, earth resistance, and voltage-drop data on existing systems

MODEL	CA 6116N	CA 6117
INSTALLATION TESTS		
Continuity / Resistance	.01 Ω to 400 kΩ; 200 mA and 12 mA test currents	
Insulation Resistance	0.01 MΩ to 2 GΩ; rated (50, 100, 250, 500, 1000) VDC	
Earth Resistance (3-point)	0.50 Ω to 15 kΩ	
Loop Impedance (Zs, Zi)	TRIP: 7.5 A max; no-TRIP: (6, 9, 12) mA	
RCD Testing (AC / A-type)	IΔn (6 to 1000) mA; ramp and pulse	
RCD Testing (B-type)	–	IΔn (6 to 500) mA; 2x and 4x pulse
Voltage Drop ΔV %	–	(-40 to 40) %
Integrated Fuse Table	–	Yes
ADDITIONAL MEASUREMENTS		
Voltage	(0.2 to 550) VAC/DC	
Phase Rotation	(20 to 500) VAC	
Power	(5 W to 110 kW) 1-ph / (0 to 330) kW 3-ph	
Harmonics	Voltage and current to 50th order; THD-F / THD-R	
GENERAL		
Display	5.7 in color graphic LCD, 320 × 240	
Communication	USB; DataView® software included	
Power Source	(100 to 240) VAC	
Power Supply	Li-ion 10.8 V / 5.8 A·h; up to 25 h	
SAFETY & INGRESS		
Safety Rating	300 V CAT IV / 600 V CAT III	
Ingress	IP53	

Consult factory for NIST Calibration prices.

PRODUCT INCLUDES



CAT. #2138.06 MODEL 6116N
CAT. #2138.07 MODEL 6117
CAT. #2138.10 MODEL 6116N KIT*
CAT. #2138.11 MODEL 6117 KIT*

Carrying bag, US power cord and charger, Li-ion battery pack, USB A/B cable, set of (3) 3-prong color-coded *(red, blue, green)* safety voltage leads, set of (3) color-coded *(red, blue, green)* test probes, set of (3) color-coded *(red/blue/green)* alligator clips, set of (2) color-coded *(red/black)* safety leads 4 mm straight plug, 3-prong US measurement cord, remote test probe, wrist strap, hands-free strap, multilingual safety card, and a USB drive with DataView® software and user manual.

*Kits include (1) C177A probe.

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

See pages 199 for Accessories/Replacements

CAT. #	DESCRIPTION
2138.06	Multi-Function Installation Tester Model CA 6116N (US) (includes DataView® Software) - SPECIAL ORDER ONLY
2138.07	Multi-Function Installation Tester Model CA 6117 (US) (includes DataView® Software) - SPECIAL ORDER ONLY
2138.10	Multi-Function Installation Tester Model CA 6116N Kit (US) (includes C177A, and DataView® Software) - SPECIAL ORDER ONLY
2138.11	Multi-Function Installation Tester Model CA 6117 Kit (US) (includes C177A, and DataView® Software) - SPECIAL ORDER ONLY

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RESISTANCE DECADE BOX

MODEL BR07

150 V CAT II | 50 V CAT III | CE | ⧈

Precision resistance standard for calibration and circuit simulation.



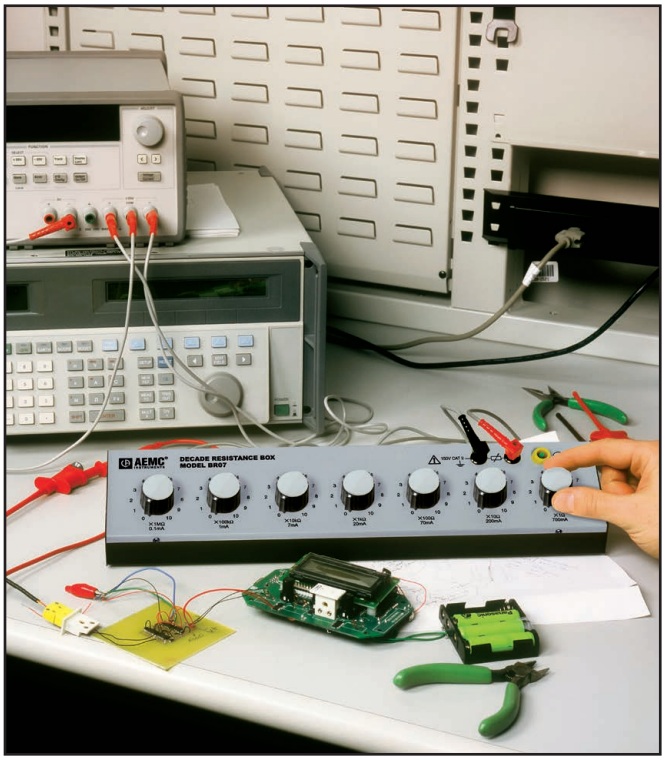
MODEL	BR07
RESISTANCE	
Available Decades	7 (1, 10, 100, 1 k, 10 k, 100 k, 1 M)
Total Range	1 Ω to 11.11111 MΩ
Maximum Current	Maximum current varies by decade (700 mA to 0.1 mA)
Accuracy	1 % ±10 mΩ per decade
Switch Type	11-position rotary (0 to 10 per decade)
Connectors	4 mm female safety banana jacks
GENERAL	
Max Rated Voltage	150 V to ground
Dimensions	(410 × 86 × 76) mm (16 × 3.4 × 3) in
Weight	1.4 kg (3 lb)
Ingress	IP40

Consult factory for NIST Calibration prices.

FEATURES

- **Seven Decades** — 1 Ω to 11.11111 MΩ in 1 Ω steps via eleven-position rotary switches[1]
- **Accuracy** — 1 % ±10 mΩ across all decades
- **4 mm Safety Terminals** — Standard female banana jacks for direct connection to meters and test fixtures
- **Bench Construction** — Metal enclosure rated IP40 for laboratory and production environments

[1] Maximum current varies by decade *(up to 700 mA on lowest range)*



APPLICATIONS

- Simulate sensor and transducer resistance during calibration of measurement systems
- Verify meter accuracy by substituting known resistance values across the full operating range
- Set precise resistance set points for production test fixtures and go/no-go gauging

PRODUCT INCLUDES

9.8 in (25 cm) safety lead with Ø 4 mm connectors and user manual.

See pages 199 for Accessories/Replacements

CAT. #	DESCRIPTION
2131.25	Resistance Decade Box Model BR07 ((x1, x10, x100) Ω, (x1, x10, x100) kΩ, x1 MΩ, 1 %)

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	AX503	BR07	CA6116N	CA6117
	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	•			
	2131.35	Lead – Replacement, 6 ft Safety Lead, 4 mm Female to Female		•		
	2135.35	Ground Resistance Test Kit – 150 ft			•	•
	2135.36	Ground Resistance Test Kit – 300 ft			•	•
	2138.52	AC Current Probe Model C177A			•	•
	2138.54	Continuity Probe			•	•
	2138.58	Replacement Strap for Models 6116N & 6117 (*special order only*)			•	•
	2155.75	Megohmmeter Test Probe (600 V CAT IV)			•	•
	2960.47	Replacement – Battery – 5.8 AH 61.9 WH Li-ion Battery Pack			•	•
	5000.78	Lead – Set of (2) 5 ft PVC Color-Coded (red/black) w/ 4 mm straight/right Angle Banana Plugs			•	•
	5000.94	Lead – Set of (2) 5 ft Silicone color-coded (red/black) w/ 4 mm straight/right Angle Banana Plugs			•	•
	5100.00	Clip – Safety Alligator – Red			•	•
	5100.04	Clip – Safety Alligator – Blue			•	•
	5100.06	Clip – Safety Alligator – Green			•	•

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DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

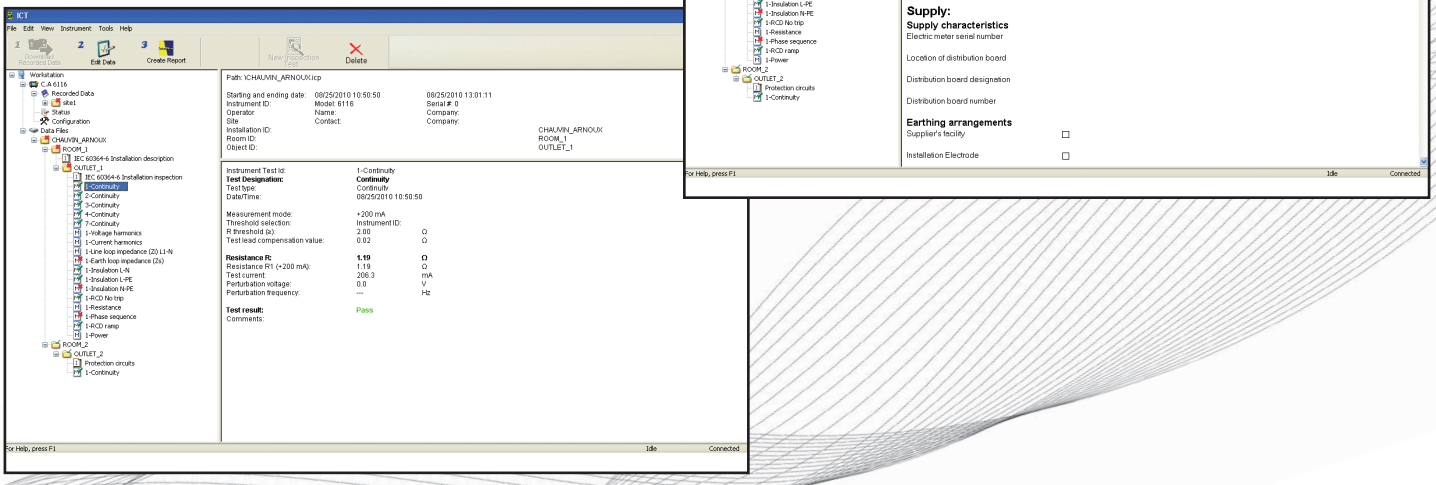
Configure All Functions of Models CA 6116N & CA 6117

- 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*

AUTOMATIC REPORT GENERATION

AEMC INSTRUMENTS www.aemc.com

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





DataView® Software for the installation testers can be used for quick, simplified analysis of the measurements recorded by the CA 6116N and CA 6117 testers.

Other Functions Available:

- Data recovery
- Instrument parameter settings
- Customization of measurement sessions with transfer into the instrument
- Generate reports from test results

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

THERMAL IMAGING CAMERAS



Why choose AEMC® Instruments Thermal Imaging Camera?

Our thermal imaging camera provides a real-time non-contact inspection method. This detection method does not require you to shut off power, shut down the machines or interrupt production. It can diagnose latent malfunctions in advance, and so forestall their occurrence and prevent production incidents. Thermal imaging is an innovative non-contact evaluation technique that is safe, reliable, and rapid. It is used in sectors of industry as diverse as metallurgy and steel-making, electric power, petroleum, automation, the exploitation of natural gas, transportation, and in other committed professions such as fire-fighting and border surveillance. Bluetooth® communication supports acquisition of data from up to three peripheral devices such as clamp-on meters and DMMs.

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

THERMAL IMAGING CAMERAS

INFRARED CAMERA

MODEL 1954

A versatile infrared camera that helps ensure safety across industrial applications.



AUTOMATIC REPORT GENERATION

THERMO RESOLUTION
(120 × 160) Pixels

FEATURES

- Focus-free with (28 × 38) ° field of view
- Automatic brightness control
- Exceptionally long battery life
- Quick startup in less than 10 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® Instruments Clamp-on Meters, and Environmental Meters and record their 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

MODEL	1954
IR DETECTOR	
Type	UFPA microbolometer
Spectral Range	(8 to 14) µm
Resolution	(120 × 160) pixels
IMAGING PERFORMANCE	
NETD	< 80 mK @ 86 °F (30 °C)
Frequency	9 Hz
Field of View	(28 × 38) °
IFOV *(spatial resolution)*	4.1 mrad
Minimal Focal Distance	0.98 ft (0.3 m), fixed focus
FOCUSING	
Adjustment	Fixed
VISUAL IMAGE	
Resolution	(480 × 640) pixels
Minimal Focal Distance	2 in (5 cm) fixed focus
PRESENTATION OF IMAGES	
Images Displayed	Infrared image, visual image with automatic parallax compensation Merging of both images is possible with included PC software
LCD Screen	2.8 in (7.1 cm)
Display Colors	Pseudo-colors, multiple palettes
LASER POINTER	
Type	Class 2 (645 to 655) nm power: < 1 mW
FUNCTIONS	
Image Freezing	Animated or fixed image
Data Storage	2 GB Micro SD card included *(approximately 4000 images)* Replaceable with up to 32 GB Micro-SD card
MEASUREMENT	
Temperature Range	(-4 to 482) °F (-20° to 250) °C
Accuracy	± 3.6 °F (± 2 °C) or ± 2 % of reading
ANALYSIS FUNCTIONS	
Measurement Tools	Manual cursor, automatic detection, min / max / avg on adjustable area, temperature profile, and isotherm
Adjustment	Automatic or manual adjustment palette min / max
Parameter Settings	Emissivity, environmental temperature, distance, and relative humidity
Isotherm Display	Color display of a temperature range adjustable by the user
Voice Recordings	Via Bluetooth® headset *(included)*
ENVIRONMENTAL	
Operating Temperature	(-5 to 122) °F (-15 to 50) °C
Storage Temperature	(-40 to 158) °F (-40 to 70) °C
Humidity	(10 to 95) % RH
Drop Resistance	6 ft (2 m) on all sides
Impact Resistance	25 G
Vibration Resistance	2 G
GENERAL	
Power Supply	(4) AA NiMH rechargeable batteries with external charger included
Tripod Mounting	1/4 in insert on camera *(tripod not included)*
Battery Life	9 h typical *(7 h minimum)*
Bluetooth® Communication	Clamp-On Meters Models 407 and 607, Environmental Data Logger Models 1110, 1200 and 1800 Series
Safety Rating	EN 61010-1 Ed.02

Consult factory for NIST Calibration prices.

See pages 205 for Accessories/Replacements

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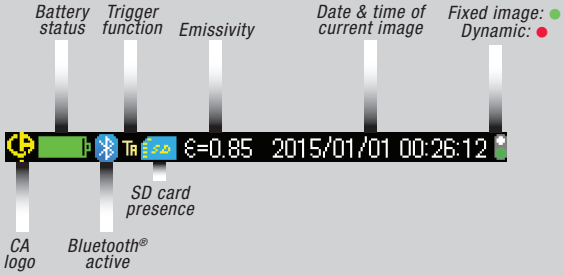
DISPLAY & MENU CONTENTS

STATUS BAR



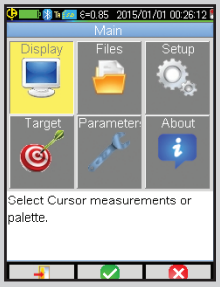


MENU
Selectable using navigation keys

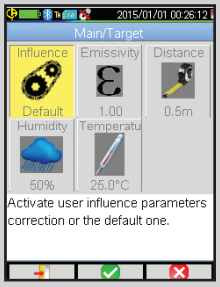
CONTEXTUAL HELP
This display area updates based on the menu item selected

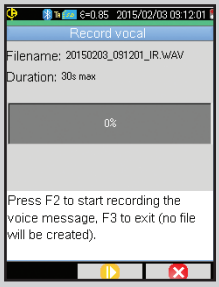
FUNCTION KEYS
Linked to selected menu choice or camera image

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.





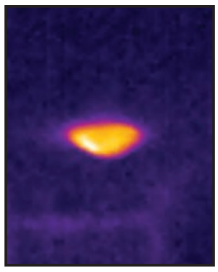




SELECTABLE CURSOR TOOLS

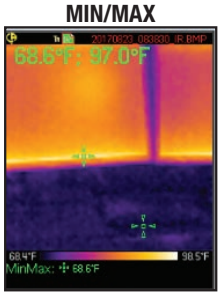
User programmable cursors provide a comprehensive set of options for evaluating thermal profiles.

NONE



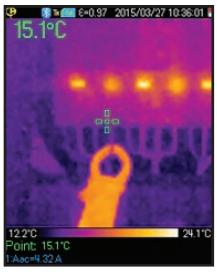
No cursor display, temperature evaluation is determined by color palette only.

MIN/MAX



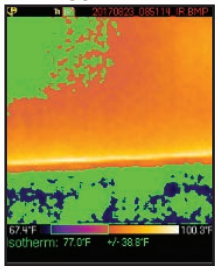
Automatically displays the cold and hot spot values at the Min and Max cursor positions.

POINT



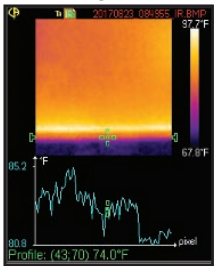
Displays the value at the cursor. Cursor is movable using the navigation keys.

ISOTHERM



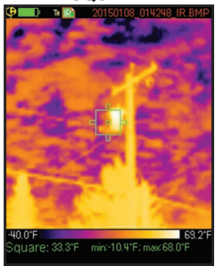
Displays points that fall in the same temperature range in the same color. User picks green, red or brown as the display color and defines the range and tolerance.

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.

SQUARE



Displays the MIN/MAX and mean values within the box. Box size and location is user adjustable.

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CAmReport SOFTWARE FOR ANALYZING THERMOGRAMS

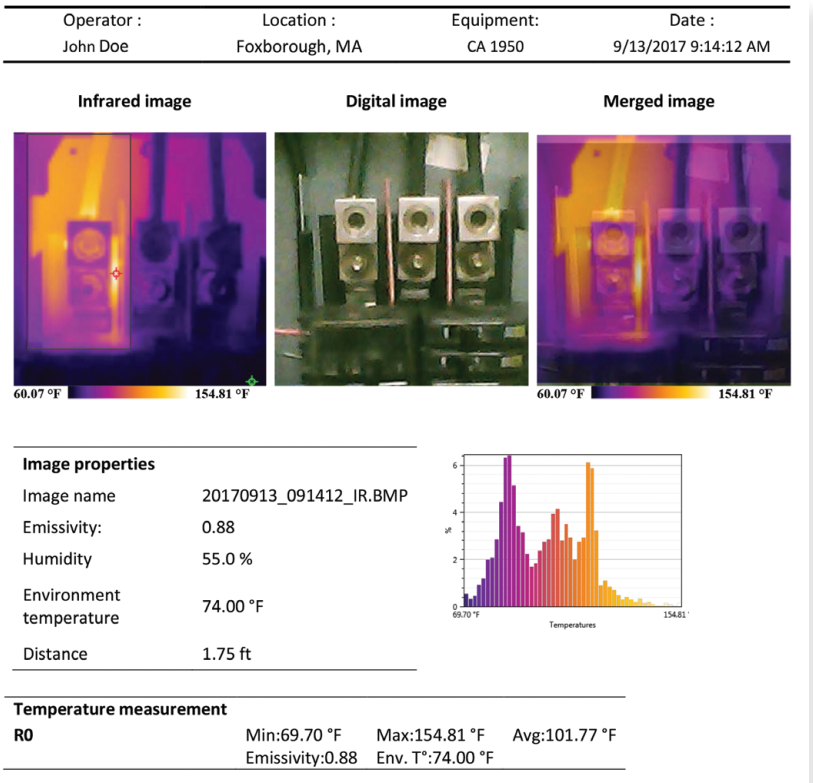
This comprehensive software offers all the necessary functions for effective analysis of the measurement results and report generation.



USB drive with software and manuals

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



Operator :	Location :	Equipment:	Date :
John Doe	Foxborough, MA	CA 1950	9/13/2017 9:14:12 AM

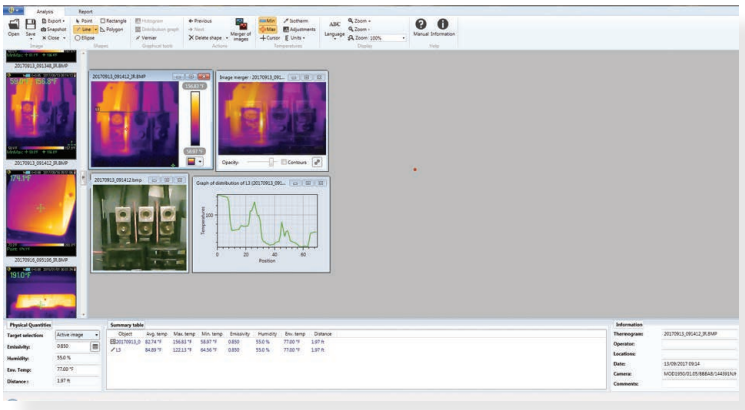
Infrared image **Digital image** **Merged image**

60.07 °F 154.81 °F 60.07 °F 154.81 °F

Image properties	
Image name	20170913_091412_IR.BMP
Emissivity:	0.88
Humidity	55.0 %
Environment temperature	74.00 °F
Distance	1.75 ft

Temperature measurement			
R0	Min:69.70 °F	Max:154.81 °F	Avg:101.77 °F
	Emissivity:0.88	Env. T°:74.00 °F	

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



Typical analysis tab screen

PRODUCT INCLUDES

Carrying case, USB cable, external battery charger, (4) NiMH rechargeable batteries, micro SD card with adapter, Bluetooth® headset, printed quick start guide, and a USB drive with CAmReport software, and user and software manuals.

CAT. #	DESCRIPTION
2121.41	Thermal Imaging IR Camera Model 1954 (Resolution 120 × 160)

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	1954
	**2121.60**	Case with Foam Insert	•
	**2126.49**	Cable – Replacement USB (Type-A to 5-pin Mini-B) Cable	•



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AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

DataView®

Our exclusive DataView® software: the ultimate tool for configuring, testing, and managing your AEMC® instruments. Seamlessly run tests, download and store results, and generate comprehensive reports, all through an intuitive and standardized interface.

And the best part? It's completely **FREE**, and you retain full ownership of your data! No hidden fees, no access charges – just total control at your fingertips.

Engineered for Excellence
RELIABILITY WHEN IT MATTERS™

TRANSFORMER RATIOMETERS



DataView®
DATA ANALYSIS AND REPORTING SOFTWARE

Why choose AEMC® Instruments Transformer Ratiometer?

We have developed portable Digital Transformer Ratiometer (DTR®) that is specifically designed to ensure safety during on-site testing of power transformers, VT/PTs, and current transformers CT turn ratios. With easy setup, there is no need for calibration or balancing. The DTR® injects into primary and reads the secondary, thus making it safer for the operator. It also stores your 10 most common transformer nameplate values, which saves time and eliminates errors during testing. Additionally, the display contrast and backlighting are adjustable, providing clear reading in all lighting conditions. The transformer ratiometer comes with polarized H and X input cable connectors that eliminate errors in setup. In addition, the intelligent battery charging feature prevents overcharging and extends battery life.

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

TRANSFORMER RATIOMETERS

DTR® MODEL 8511

IP 53 cover closed

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



DataView®

MODEL	DTR® 8511
ELECTRICAL	
VT / PT Ratio Range	Auto-Ranging 0.8000:1 to 8000.0:1
VT / PT Accuracies*	Ratio 0.8000 to 9.9999: ± 0.2 % of Reading Ratio 10.000 to 999.99: ± 0.1 % of Reading Ratio 1000.0 to 4999.9: ± 0.2 % of Reading Ratio 5000.0 to 8000.0: ± 0.25 % of Reading
Excitation Current	Up to 2 A
CT Ratio Range	Auto-Ranging 0.8000 to 1000.0
CT Accuracy*	± 0.5 % of Reading
Output Voltage (VT / PT)	30 V @ 64 Hz
Output Voltage (CT)	2 V @ 64 Hz
Display	LCD 20 characters × 4 line display
Languages Supported	English, Spanish, French, Italian, German, Portuguese
Communication	USB Type-A to Type-C USB 2.1
Data Storage	9801 measurements
Power Supply	USB Type-C and 12 VDC charger
Measurement Method	In accordance with IEEE Std. C57.12.90™
Buttons	6 total buttons *(one to start testing and five for navigation)*
Battery Life	500 VT / PT tests
Battery Charge Time	10 h *(see user manual for full details)*
SAFETY	
Safety Compliance	IEC 61010-2-030, IEC 61326-1, IEC 60529, IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-31, Pollution 2

Consult factory for NIST Calibration prices.

Reference Condition: *(23 ± 5) °C, (50 to 70) % RH, full battery charge, no external fields or noise.

FEATURES

- **Wide Ratio Range** – Accurately measures transformer ratios up to 8000:1 for VT/PT mode and 1000:1 for CT mode
- **Advanced Low-Voltage Step-Down Measurement** – Applies test current to the primary side windings, enhancing operator safety and enabling testing across a wider range of transformer types and sizes
- **Automatic Test Cycles** – Quickly checks for lead reversal and open circuits with no manual balancing required
- **Built-in Continuity Testing** – Detects open transformer windings quickly
- **Deviation Calculations** – Compare measured values to stored nameplate data for instant pass/fail results
- **Large Storage Capacity** – Save up to 9801 test results for easy recall and reporting
- **PC Connectivity** – Transfer data, set nameplate values and control the instrument remotely with included DataView® software
- **Rugged and Portable** – Lightweight, field-ready design with an IP53-rated protective case *(with lid closed)*
- **Flexible Power Options** – Operates on NiMH batteries or 12 VDC external supply. Batteries can be recharged through USB-C connector or 12 VDC external supply.
- **User-Friendly Interface** – Bright backlit 4-line display, intuitive navigation keys, and audible test alerts

PRODUCT INCLUDES

Includes (6) rechargeable AA NiMH batteries *(installed)*, extra large carrying bag, set of (2) 15 ft test leads *(primary and secondary)* with (4) alligator clips *(red/black)*, 6 ft USB Type-C to Type-C cable, USB Type-C wall power adapter, 10 ft USB Type-A to Type-C cable, AC power adapter with cord and USB drive with DataView® software and user manual.



WARNING: This product can expose you to chemicals, including Bisphenol A, Styrene, Acrylonitrile, 1,3-Butadiene, Ethylbenzene, Nickel, Carbon, and Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

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

CAT. #	DESCRIPTION
2136.55	Digital Transformer Ratiometer DTR® Model 8511

Technical Assistance (800) 343-1391

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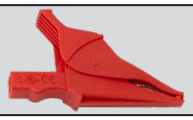
AEMC® INSTRUMENTS

TRANSFORMER RATIOMETERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	DTR® 8511
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 × 9 × 12) in	•
	2133.76	Bag – Extra Large Carrying Bag w/ Rubber Bottom Dimensions: (22.5 × 12.5 × 7.5) in	•
	2136.76	Lead – Set of (2) 30 ft for DTR® Models 8500, 8510 & 8511	•
	2136.77	Lead – Set of (2) Replacement, 15 ft for DTR® Models 8500, 8510 & 8511	•
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)	•
	5100.25	Adapter – USB Type-C Wall Power Adapter	•
	5100.26	Adapter – Replacement AC Power Adapter w/ cord for DTR® Model 8511	•
	5100.27	Cable – 10 ft Type-C to Type-A	•
	5100.28	Cable – 6 ft USB Type-C 3.1 PD to Type-C	•

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DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

AUTOMATIC REPORT GENERATION

AEMC INSTRUMENTS www.aemc.com

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



DataView® turns your test data into clear insights and professional reports

Our DataView® software makes it easier to troubleshoot, optimize performance, and document results. By connecting your DTR® 8511directly to your computer, DataView® saves time and streamlines your workflow.

Configure All Functions:

- **Connect easily**
  Link your instrument to a computer via USB
- **See data live**
  Display and analyze real-time measurements in a clear, frame-style interface
- **Retrieve past results**
  Download and review previously recorded data
- **Fine-tune settings**
  Configure a wide variety of instrument parameters
- **Maintain your device**
  Erase stored content and perform instrument upkeep
- **Generate reports effortlessly**
  Use standard templates or customize your own for professional reporting



Flexible Reporting – Generate professional reports instantly with built-in templates or customize your own.

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AEMC INSTRUMENTS

OEM SERVICES

TAILORED PRODUCTS, DESIGNED FOR YOUR SUCCESS

Looking for a Solution Tailored to Your Unique Requirements?

We design and manufacture custom OEM products built precisely to your technical and brand specifications. From initial concept through full production, our experienced team delivers innovative, high-performance solutions you can rely on.

Our Process



1

Collaborate & Define

- *We work closely with you to understand your goals, technical requirements, application needs, and brand expectations.*
- *Together, we define the specifications that will guide development.*



2

Design, Develop & Validate

- *Our engineering team designs and builds a customized product tailored to your specifications.*
- *Prototypes are tested to ensure performance, reliability, and quality standards are met.*



3

Manufacture & Deliver

- *Once approved, your product moves into production with consistent quality control and dependable delivery.*

Ready to support and elevate your business.

Why Partner With Us?

- Custom products tailored to your brand and needs
- High-quality, reliable solutions
- Close collaboration from concept to delivery
- Custom innovations that support your long-term success

Let's Build Your Solution

Work with our team to develop tailored OEM products that support performance, brand growth, and long-term value.

Contact our team today!

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SOFTWARE

DataView®

- Power Quality Analyzers
- Power Energy Loggers
- Ground Resistance Testers
- Insulation Resistance Megohmmeters
- Low Resistance Micro-Ohmmeters
- Transformer Ratiometers
- Data Loggers
- Environmental Loggers
- Clamp-On Power Meters
- Installation Testers



DATA ANALYSIS

- Zoom in and out to identify important data points
- Annotation and labeling of data points
- Tracking Min, Max, Peak and Average values
- Object linking and embedding

REPORT GENERATION

- Predefined report templates
- Customizable report templates
- Data Export to other formats (Excel, .csv)
- Creation of PDF files



DATA RETRIEVAL AND STORAGE

- Direct connect to the instrument
- Transfer from SD card
- Over the internet
- From local area network

COMMUNICATION

- USB
- Wi-Fi
- Bluetooth®
- Ethernet



INSTRUMENT CONFIGURATION

- User defined
- Load from stored configurations
- Save new configurations





LOCAL & REMOTE REAL-TIME MONITORING

- Single Instrument
- Multiple Instruments
- DataViewSync® support for some of our Wi-Fi enabled instruments



SX-Metro

- Oscilloscopes



DATA ANALYSIS & RECORDING

- Display curves in real time
- Importing of screenshots
- Download stored measurements
- Export data to excel or text files

PROCESSING

- Acquisition, recording and processing of curves
- Mathematical processing, such as FFT of displayed signal
- Save or restore configurations

COMMUNICATION

- TCP/IP network connection
- USB



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AEMC® INSTRUMENTS

SX-DMM

- Digital Multimeter Model MTX Series



DATA ANALYSIS

- Acquire, record, and use measurements
- XY derivative, integral, curve smoothing functions
- Data in the form of curves and tables



REAL-TIME PROCESSING

- Used for real-time processing of the data on a PC
- Automatic adjustment of the time on the instrument

CAmReport

- Thermal Imaging Camera



THERMOGRAM ANALYSIS

- Cursors *(automatic display of the temperature at the point selected)*
- Thermal profile *(automatic display of the Min/Max/Avg temperatures)*
- Selectable and configurable shapes for area analysis
- Polygons and polylines for more accurate analysis of certain areas in the thermogram

OTHER FEATURES

- Download audio comments or related measurements
- Automatic merging of the thermal and real images recorded simultaneously
- Automatic creation of reports for export in .pdf or .docx format.

Tachograph

- Tachometer Model CA1727



DATA ANALYSIS & RECORDING

- Enables two-way management of data
- Acquire, process and re-use of the measurements
- Export data onto a PC hard disk or XLS format
- Allows the instrument's programming parameters to be transferred and displayed
- Digital processing of the results, such as calculating the mean value, the position or the acceleration, and viewing

Simple Logger®

- Data Logger Simple Logger® SL Series

DATA ANALYSIS & RECORDING

- View measurement data in real time
- Download a recording
- Print data
- Export to XLSX



DSG-8

- AC Digital Signal Generator Model DSG-8



SIMULATOR

- Simulates waveforms for AEMC® Instruments PowerPad® and PEL Series instruments *(such as voltage and current levels, transients, inrush, and alarm events)*
- Create, save, and load new custom waveform simulations

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TRAINING SEMINARS

AEMC® INSTRUMENTS TECHNICAL TRAINING WEBINARS & SEMINARS

– Offered throughout the USA
– Ground Resistance Testing, Insulation Resistance Testing and Power Quality
– Public and private seminars available
– Custom product training solutions available
– On-site or online training seminars

UNDERSTANDING GROUND RESISTANCE TESTING



For field engineers, technicians, utility engineers, supervisors, electricians and inspectors interested in testing and grounding systems.

Key topics include:

- Wenner soil resistivity (4-pole)
- Ground resistance measurements (3-pole)
- Fall-of-Potential testing (simple and full)
- Alternate test methods, including clamp-on testing
- Continuity testing
- Standards (NEC, NFPA, IEEE)
- Fieldwork Templates provided

UNDERSTANDING INSULATION RESISTANCE TESTING



For technicians, supervisors, electricians, plant maintenance personnel and inspectors interested in insulation resistance testing on motors, cables, transformers and other electrical equipment.

Key topics include:

- Insulation test theory
- Insulation testing on motors, cables, and transformers
- Spot testing
- Timed testing
- DAR (Dielectric Absorption Ratio), PI (Polarization Index), DD (Dielectric Discharge)
- Temperature correction
- DataView® Report generation

UNDERSTANDING POWER QUALITY MEASUREMENTS



For engineers, technicians, supervisors, electricians, plant maintenance personnel and inspectors interested in monitoring, recording and analyzing power quality and energy monitoring.

Key topics include:

- Symptoms and problems associated with poor Power Quality
- Measuring common voltage disturbances and transients
- Harmonic Analysis - causes and how to measure harmonics
- Power Factor - measuring and understanding its importance to power quality
- Power & Energy Logging - trend recordings, load studies , alarm settings
- Standards (IEEE, IEC)
- DataView® Report generation

FOR MORE DETAILS ABOUT OUR CUSTOM TRAINING SEMINARS CONTACT **SALES@AEMC.COM**, VISIT OUR WEBSITE AT **WWW.AEMC.COM**, OR CALL **(800) 343-1391**

CORPORATE & SUPPORT SERVICES



CORPORATE AND MANUFACTURING

Chauvin Arnoux® Inc. d.b.a. AEMC® Instructments
15 Faraday Drive, Dover, NH 03820 USA
Tel: (603) 749-6434
Order entry:
Tel: (800) 343-1391 ext. 361 • customerservice@aemc.com
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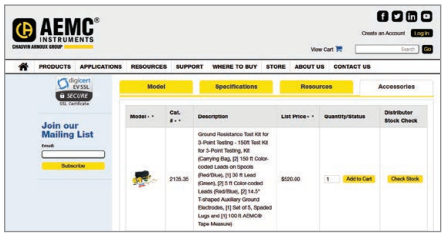
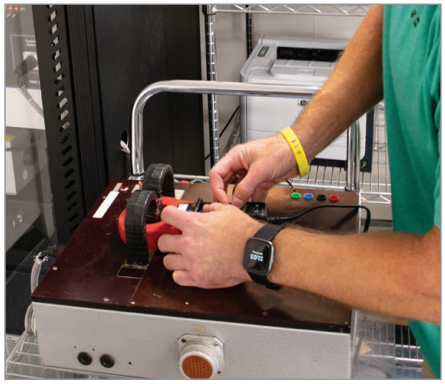


ONLINE STORE

The AEMC® Instruments online store offers the opportunity to purchase replacement parts such as fuses, test leads and other accessory items for your test instruments. The online store also offers refurbished and discontinued items at a reduced price. Product specials are also offered online, visit our online store regularly at: **www.aemc.com/store**



REPAIR AND CALIBRATION

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

Costs for repair, normal recalibration, and calibration traceable to NIST are available. NIST calibration pricing is listed within each product ordering chart on our website. All customers must call for an authorization number (CSA#) before returning any instrument.

For instrument repairs and/or calibrations, please contact us at:

Tel: **(800) 945-2362 ext. 360**
repair@aemc.com



TECHNICAL SALES AND ASSISTANCE

If you experience technical problems, or require assistance with the proper use or application of any AEMC® instrument, please contact us at:

Technical Hotline: **(800) 343-1391 ext. 351**
Technical assistance in Spanish is available at **ext. 544**
techsupport@aemc.com



WARRANTY

All AEMC® Instruments products carry a 2-year warranty (unless specified) against defects of material and workmanship which develop under normal and proper use within one to three years (product dependent) of original date of purchase when inspection proves the fault to be one of manufacturing. Detailed warranty coverage is located on our website.

Products can be registered online at:
www.aemc.com/support/product-registration.cfm

Specifications and prices are subject to change without notice.

NEW PRODUCTS



Power & Energy Loggers

PEL 110 SERIES / *Pages184-186*



Point-to-Point Continuity Tester

MODEL CA 6011 / *Page 129*



AC Current Probe

MODEL MD361 / *Page 68*



Data Loggers

L400 SERIES / *Pages 84-85*



AC/DC Current Probes

MODELS SL306 & SL361 / *Page 72*



Cable Verification & Tracing Analyzer

MODEL 6683 / *Page 42*



Transformer Ratiometer

DTR® MODEL 8511 / *Page 208*

RETAIL VALUE $19.99

Your authorized AEMC® Instruments distributor is:

Engineered for Excellence

RELIABILITY WHEN IT MATTERS™

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Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments 15 Faraday Dr. • Dover, NH 03820-4352 • USA
(603) 749-6434 • (800) 343-1391 • Fax (603) 742-2346 • sales@aemc.com
Export Department: +1 (603) 749-6434 Ext. 520 • Fax +1 (603) 742-2346 • export@aemc.com