

HVAC Monitoring

Heating, Ventilation, & Air Conditioning

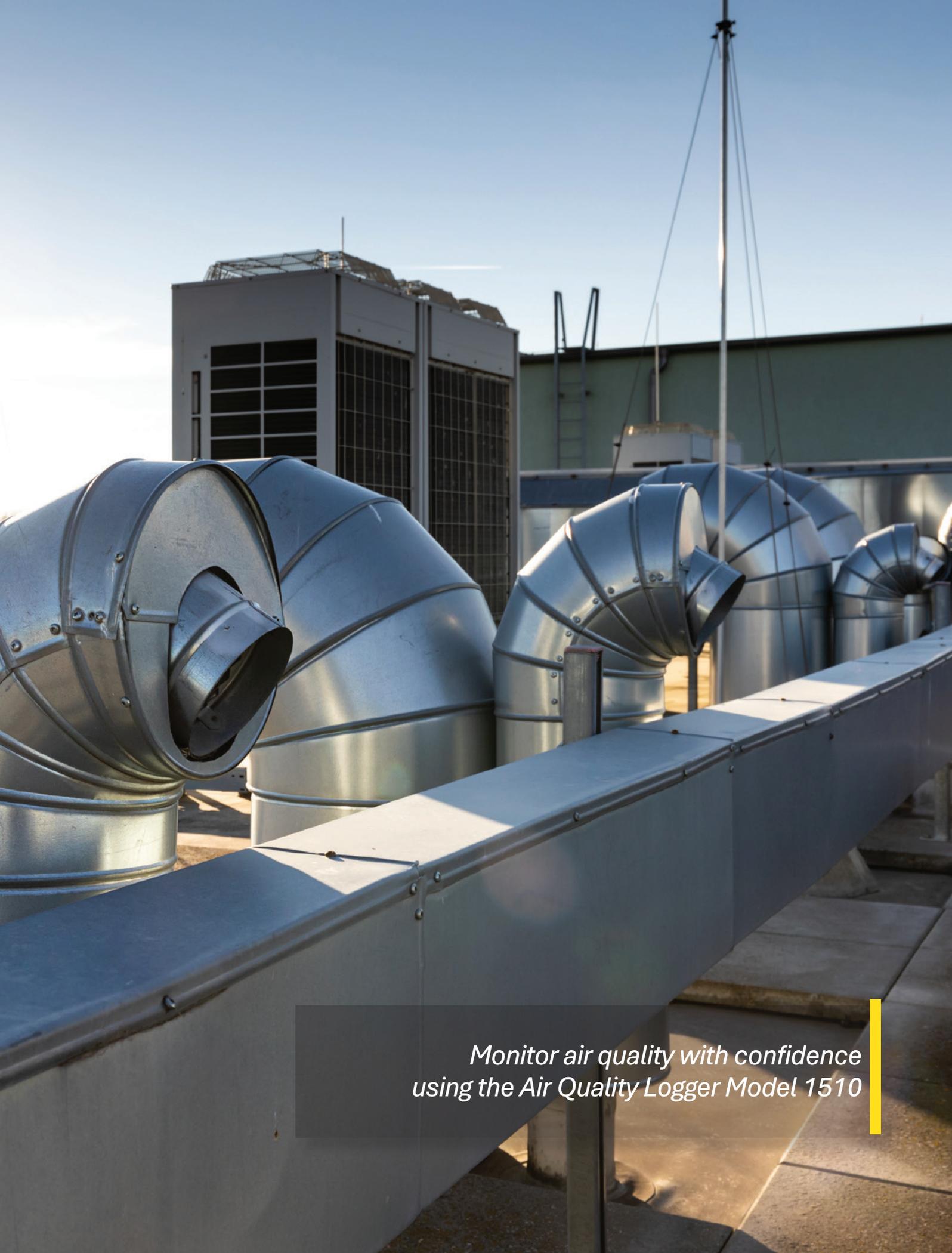
Proactive HVAC Testing for Uninterrupted Performance

- **Increase system efficiency** through detailed airflow and thermal analysis
- **Prevent unexpected downtime** with early detection of mechanical and electrical faults
- **Extend equipment lifespan** by validating motor, compressor, and load conditions
- **Improve indoor air quality** by assessing ventilation effectiveness and distribution
- **Reduce energy costs** by uncovering inefficiencies and system imbalances
- **Confirm safe installations** with comprehensive electrical and safety verification

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

Technical Hotline: (800) 343-1391
www.aemc.com

 **AEMC[®]**
INSTRUMENTS
CHAUVIN ARNOUX GROUP



*Monitor air quality with confidence
using the Air Quality Logger Model 1510*

Environmental Monitoring & Logging

Air Quality Logger Model 1510

Maintaining optimal environmental conditions is critical to HVAC system performance, occupant comfort, and energy efficiency. AEMC® environmental instruments provide fast, accurate measurements of temperature, airflow, humidity, and related parameters to support installation, commissioning, and troubleshooting. Whether balancing ductwork or diagnosing comfort complaints, reliable environmental data drives better system performance.



KEY FEATURES

- ▶ Measures and logs CO₂ concentration, temperature, and relative humidity
- ▶ Large multi-line backlit digital display for real-time monitoring
- ▶ User-selectable recording intervals with internal memory for long-term studies
- ▶ USB communication for download and analysis with DataView® data analysis and reporting software
- ▶ Configurable audible and visual alarm thresholds
- ▶ Battery or USB powered operation for flexible deployment
- ▶ Optional padlock wall mount (*padlock is not included*)
- ▶ Optional desktop stand and wall mount holster

APPLICATIONS

- ▶ IAQ assessments in commercial buildings
- ▶ Verification of ventilation performance and fresh air intake rates
- ▶ Demand-controlled ventilation (DCV) optimization
- ▶ Monitoring conference rooms, classrooms, and high-occupancy areas
- ▶ Trending environmental conditions for LEED and building commissioning



DataView®

The Model 1510 Air Quality Logger is designed to monitor indoor environmental conditions critical to HVAC system performance and occupant comfort. By measuring and recording key air quality parameters, it provides the data needed to **optimize ventilation, improve energy efficiency, and maintain compliance with Indoor Air Quality (IAQ) standards.**

WHY IT MATTERS: Proper ventilation is important for occupant health, productivity, and HVAC efficiency. Continuous monitoring of CO₂ and environmental conditions ensures systems deliver the right amount of fresh air, reducing energy waste while maintaining indoor comfort and regulatory compliance.

MODEL 1510	
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
Connectivity	Bluetooth® and USB
Recording Interval	Programmable from 1 min to 2 h
Battery Type	(3) AA alkaline
Power Source	Micro-USB

Consult factory for NIST Calibration prices.

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



Technical Assistance (800) 343-1391

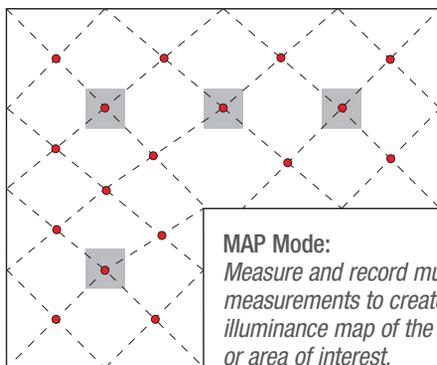
Environmental Monitoring & Logging

Lightmeter Data Logger Model 1110

The Model 1110 Lightmeter Data Logger measures and records illuminance levels to **verify proper lighting performance in commercial and industrial environments.**

Designed for accuracy and ease of use, it helps facility professionals evaluate lighting conditions that affect occupant comfort, energy efficiency, and compliance.

WHY IT MATTERS: Lighting directly impacts occupant comfort, productivity, and energy consumption. Accurate measurement and logging ensure lighting systems meet performance standards while supporting efficient building operation and indoor environmental quality goals.



KEY FEATURES

- ▶ Measures Lux or Foot-Candle with wide dynamic range
- ▶ User-selectable light source compensation (LED, fluorescent, natural light)
- ▶ Removable light sensor with expandable cord for flexible positioning
- ▶ Map mode for profiling lighting uniformity across a room with printable report
- ▶ Min, Max, and Average measurement functions
- ▶ Stores up to 1,000,000 measurements in internal memory
- ▶ USB and Bluetooth communication
- ▶ Includes DataView[®] analysis and reporting software

APPLICATIONS

- ▶ Lighting verification during commissioning and for OSHA lighting studies
- ▶ Evaluation of lighting uniformity in offices, classrooms, and healthcare facilities
- ▶ Energy efficiency audits and lighting retrofit validation
- ▶ Workstation and task lighting assessments
- ▶ LEED and building performance documentation
- ▶ Maintenance troubleshooting for under- or over-lit spaces

MODEL 1110	
Measurements	Illuminance (Lux / Footcandles)
Measurement Range (auto-ranging)	(0 to 200,000) lx (0.01 to 18,580) fc
Connectivity	USB (DataView [®] compatible)
Battery Type	9 V alkaline battery
Power Source	Battery powered
Memory	1,000,000 measurements on each channel. Recorded data is stored in non-volatile memory and will be retained — even if battery is low or removed

Consult factory for NIST Calibration prices.

CAT. #	DESCRIPTION
2121.71	Lightmeter Data Logger Model 1110

Environmental Monitoring & Logging

Thermo-Anemometer Data Logger Model 1228

The Thermo-Anemometer Data Logger Model 1228 measures air velocity, airflow (volume), and temperature to evaluate HVAC system performance. Designed for commissioning, balancing, and troubleshooting, it provides **accurate airflow data to ensure ventilation systems operate efficiently and deliver proper occupant comfort.**



WHY IT MATTERS: Proper airflow is critical to system efficiency, occupant comfort, and code compliance. Accurate air velocity and volume measurements ensure HVAC systems deliver the right amount of air conditioning, preventing energy waste, maintaining indoor air quality, and extending equipment life.



KEY FEATURES

- ▶ Measures air velocity, airflow (CFM/CMM), and temperature
- ▶ Calculates volumetric airflow based on duct dimensions
- ▶ MAP mode for averaging multiple grille or diffuser measurements
- ▶ Min, Max, and Average measurement functions
- ▶ Telescoping Hot Wire Probe
- ▶ Internal memory for data logging and trend analysis
- ▶ Magnetization compatible with Multifix mounting system (easy to position where needed)
- ▶ DataView® software (with report generation)
- ▶ Android Application (with exportation of Excel file)
- ▶ Compact, handheld design for field use

APPLICATIONS

- ▶ HVAC commissioning and air balancing
- ▶ Supply and return grille airflow verification
- ▶ Duct velocity measurement and performance testing
- ▶ Troubleshooting uneven airflow or comfort complaints
- ▶ Ventilation validation for indoor air quality compliance
- ▶ Preventive maintenance inspections

MODEL 1228	
Type of Sensor	Vane / Optical detection
Measurements	Air Velocity, Airflow (Volume), Temperature
Measurement Range	Air Velocity: Approx. (0.4 to 30) ms (80 to 5900 ft/min) Airflow: Calculated (CFM / CMM based on duct area input) Temperature: Approx. (-4 to 140) °F (-20 to 60) °C
Connectivity	Bluetooth® and USB (DataView® compatible)
Battery Type	(3) 1.5 V AA (LR6) alkaline
Power Source	AA batteries or USB power

Consult factory for NIST Calibration prices.



CAT. #	DESCRIPTION
TBD	Thermo-Anemometer Data Logger Model 1228

Environmental Monitoring & Logging

Thermocouple Thermometer Data Logger Model 1822

The Model 1822 is a dual-channel thermocouple thermometer and data logger designed for high-performance temperature measurement across a wide range of industrial and environmental applications. **Supporting seven thermocouple types and long-term recording capability**, it delivers flexible, accurate temperature monitoring for process validation, commissioning, and troubleshooting.



* with USB connector closed



DataView®



WHY IT MATTERS: Accurate temperature measurement directly impacts system efficiency, equipment lifespan, product quality, and regulatory compliance. The Model 1822 allows professionals to capture both instantaneous readings and long-term trends, identify thermal imbalance or drift, and document performance with confidence, helping prevent energy waste, process failures, and costly downtime.

KEY FEATURES

- ▶ Dual-channel thermocouple inputs (T1, T2, T1–T2 differential)
- ▶ Selectable thermocouple types: J, K, T, N, E, R, S
- ▶ Wide measurement range up to 3213°F (R/S thermocouples)
- ▶ High accuracy with 0.1° resolution below 1000°
- ▶ Spot or continuous recording with programmable intervals (1 min to 2 hrs)
- ▶ Over 1 million measurement storage capacity
- ▶ Alarm-triggered recording and programmable thresholds
- ▶ Bluetooth® and USB communication
- ▶ DataView® graphing and reporting software included
- ▶ Magnetic mount, backlit display, battery or USB powered

APPLICATIONS

- ▶ HVAC system temperature validation (supply/return differential)
- ▶ Commissioning of heating and cooling systems
- ▶ Industrial process temperature monitoring
- ▶ Boiler, furnace, and heat exchanger testing
- ▶ Environmental chamber validation
- ▶ Preventive maintenance temperature trending
- ▶ Sensor verification and calibration checks
- ▶ Manufacturing process quality control

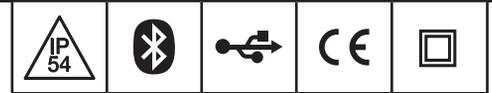
MODEL 1822	
Measurements	Temperature (Thermocouple Types J, K, T, N, E, R, S), Dual Channel, Differential (T1–T2)
Measurement Range	J: (-346 to 2192) °F (-210 to 1200) °C K: (-328 to 2502) °F (-200 to 1372) °C T: (-328 to 752) °F (-200 to 400) °C N: (-328 to 2372) °F (-200 to 1300) °C E: (-238 to 1742) °F (-150 to 950) °C R/S: (32 to 3213) °F (0 to 1767) °C
Connectivity	Bluetooth® and USB
Battery Type	(3) AA alkaline
Power Source	AA batteries or micro-USB power

Consult factory for NIST Calibration prices.

CAT. #	DESCRIPTION
2121.75	Thermocouple Thermometer Data Logger Model 1822

Environmental Monitoring & Logging

Thermal Imaging IR Camera Model 1954



KEY FEATURES

- ▶ High-resolution infrared detector for detailed thermal images
- ▶ Wide temperature measurement range for building and industrial applications
- ▶ Adjustable emissivity for accurate surface measurements
- ▶ Visual (digital) camera with image blending capability
- ▶ On-screen temperature spot markers and min/max tracking
- ▶ Image storage for documentation and reporting
- ▶ USB interface for image transfer and analysis
- ▶ Rugged, portable design for field use

APPLICATIONS

- ▶ Inspect thermal insulation performance in building envelopes
- ▶ Identify air leaks and thermal losses in HVAC systems
- ▶ Detect overheating breakers, connections, and panels
- ▶ Evaluate motor, pump, and rotating equipment temperatures
- ▶ Locate hot spots in switchgear and distribution systems
- ▶ Preventive maintenance inspections
- ▶ Energy efficiency and commissioning studies

The Model 1954 Thermal Imaging IR Camera provides **fast, non-contact thermal diagnostics for identifying temperature anomalies** in electrical and mechanical systems. Designed for building professionals and maintenance teams, it delivers high-resolution infrared imaging to quickly locate inefficiencies, overheating components, and insulation failures.

WHY IT MATTERS: Thermal irregularities are often invisible until they become failures. Infrared imaging allows maintenance teams to detect problems early — before they lead to equipment damage, safety hazards, or energy waste. By identifying hot spots, load imbalance, and insulation breakdown, the Model 1954 helps reduce downtime, improve system efficiency, and support predictive maintenance programs.

MODEL 1954	
IR Detector Type	UFPA microbolometer
IR Spectral Range	(8 to 14) μ m
Measurements	Surface Temperature (Infrared Thermal Imaging) in degrees F or C
Measurement Range	(-4 to 1202) °F (-20 to 650) °C
Field of View	28° x 38°
Resolution	120 x 160 pixels
Connectivity	USB
Battery Type	Rechargeable Li-ion battery pack
Power Source	Rechargeable battery / AC charger

Consult factory for NIST Calibration prices.

CAT. #	DESCRIPTION
2121.41	Thermal Imaging IR Camera Model 1954 (Resolution 120 x 160)

Power & Energy Analysis

Power & Energy Loggers PEL 113 & PEL 115

The PEL 113 and PEL 115 are compact three-phase power and energy loggers designed for **long-term load studies, energy audits, and power quality diagnostics**. Engineered for deployment inside panels or at equipment, they provide comprehensive electrical measurements with fast data reporting options. The PEL 115 adds enhanced environmental protection for demanding indoor and outdoor deployments.

 IP 54 PEL 113	1000 V CAT III	600 V CAT IV	 IP 67 PEL 115	1000 V CAT IV PEL 115		
						

KEY FEATURES

- ▶ Measures single-, dual- (split-phase) and three-phase systems (1Ø, 2Ø, 3Ø, 3Ø + N)
- ▶ Records voltage, current, kW, kVAR, kVA, power factor, and energy (kWh)
- ▶ Harmonics and THD analysis for power quality evaluation
- ▶ Flexible current probe compatibility (DC & AC, mA to kA ranges)
- ▶ Compact enclosure designed for panel-mounted installation
- ▶ Internal rechargeable battery for temporary installations
- ▶ DataView® software for configuration, data analysis and downloadable reporting
- ▶ Ethernet, USB, and Wi-Fi communication (model dependent)
- ▶ PEL 115 features IP 67-rated enclosure for outdoor use with included waterproof accessories

APPLICATIONS

- ▶ HVAC motor and compressor load profiling
- ▶ Load studies for upgrades or retrofits
- ▶ Demand monitoring and peak load analysis
- ▶ Energy audits and efficiency studies
- ▶ Power factor verification and correction validation
- ▶ Harmonic analysis of VFD-driven equipment
- ▶ Long-term building energy trending
- ▶ Outdoor rooftop unit and disconnect monitoring (PEL 115)
- ▶ Industrial and utility-facing power monitoring



DataView®
DataViewSync™

PEL 113 VS. PEL 115

PEL 113 is ideal for indoor panel-based energy studies in commercial and industrial facilities.

PEL 115 provides expanded channels (4 voltage and 4 current) with enhanced environmental protection, making it suitable for outdoor HVAC equipment, rooftop installations, and rugged industrial sites.

CAT. #	DESCRIPTION
2137.64	Power & Energy Logger Model PEL 113 (w/LCD, No Sensors)
2137.54	Power & Energy Logger Model PEL 113 (w/LCD, w/3 MA193-10-BK)
2137.56	Power & Energy Logger Model PEL 115 (No sensors, Waterproof IP67, DataView® Software)
2137.58	Power & Energy Logger Model PEL 115 w/(4) 196A-24-BK (Waterproof IP67, DataView® Software)



MODEL	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 ⁽²⁾ to 12,000 A ⁽¹⁾	
DC Range	50 mA to 1300 A ⁽³⁾	
RECORDING		
RMS Aggregation periods	200 ms to 60 m	
Max recording time 1 s aggregation periods ⁽⁵⁾	N/A	
Max recording time 200 ms aggregation periods ⁽⁵⁾	10 d	
Max recording time 15 min aggregation periods ⁽⁵⁾	1 y	
RMS Trends	Yes	
RMS Alarm Capture	Email only reporting	
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 (<i>samples per cycle</i>) ⁽⁶⁾	128 (7.68 kHz)	
Power Values	VA, W, var, PF, Unbalance, Distortion	
Energy Values	Vah, Wh, varh	
Harmonics THD: % r, % f	Yes	
Harmonics Range	1 to 50 th Order	
Interharmonics Range	N/A	
Phase Angle Degrees	Yes	
Flicker	N/A	
Voltage Sag Detection	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, Email Reports	
Email Reports	Yes	
DISPLAY		
Screen	(68 x 55) mm LCD	(107 x 84) mm LCD
Real-Time Display	RMS Measurements	
POWER		
Battery	NiMH battery pack	
Battery Life	~1 hour (<i>ridethrough only</i>)	
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	IP 54	IP 67

Consult factory for NIST Calibration prices.

⁽¹⁾ With any MiniFlex® or Ampflex® current sensors

⁽²⁾ With MN193 current probe

⁽³⁾ With MR193 current probe

⁽⁴⁾ With E94 current probe

⁽⁵⁾ Using EN50160 parameters with the supplied SD card

⁽⁶⁾ At 60 Hz nominal frequency

Power & Energy Analysis

Power Quality Analyzer PowerPad® Model 8345

WARRANTY
3 YEARS
WARRANTY

Register online within
 30 days of purchase



DataView®
DataViewSync™



KEY FEATURES

- ▶ Measures voltage, current, kW, kVAR, kVA, power factor, and energy
- ▶ Real-time waveform display with graphical color screen
- ▶ Harmonic analysis through the 127th order
- ▶ Total Harmonic Distortion (THD) measurement
- ▶ True InRush® capture for motor startup diagnostics
- ▶ Transient detection and event recording
- ▶ Flicker measurement (IEC compliant)
- ▶ Data logging with internal memory
- ▶ USB communication and DataView® software for reporting
- ▶ Compact handheld design for field diagnostics

APPLICATIONS

- ▶ Troubleshooting VFD-driven air handlers and chillers
- ▶ Diagnosing nuisance breaker trips and unexplained shutdowns
- ▶ Evaluating harmonic distortion caused by variable-speed drives
- ▶ Chiller motor startup inrush analysis
- ▶ Identifying voltage imbalance affecting compressors
- ▶ Power factor verification in large mechanical systems
- ▶ Commissioning rooftop units and mechanical rooms
- ▶ Investigating overheating motors and distribution panels



The PowerPad® 8345 is a three-phase power quality analyzer designed for advanced electrical diagnostics in commercial and industrial HVAC systems. **It provides real-time waveform capture, harmonic analysis, and detailed power measurements to identify electrical disturbances that impact motors, drives, and compressors.** Ideal for commissioning and troubleshooting, the 8345 delivers deep insight into system performance.

WHY IT MATTERS: Electrical disturbances often shorten motor life, reduce efficiency, and cause costly downtime. The PowerPad® 8345 allows technicians and engineers to see beyond basic load measurements—capturing harmonics, inrush, imbalance, and transient events that directly impact HVAC reliability and energy performance.

CAT. #	DESCRIPTION
2136.35	PowerPad® IV Model 8345 (no probes)
2136.36	PowerPad® IV Model 8345 w/(4) MA194-24-BK MiniFlex® Sensors
2136.37	PowerPad® IV Model 8345 w/(4) 193-24-BK Sensors (regular AmpFlex®)

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 ⁽²⁾ to 10,000 A ⁽¹⁾
DC Range	100 mA ⁽⁴⁾ to 1300 A ⁽³⁾
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 (<i>samples per cycle</i>) ⁽⁶⁾	512 (30.72 kHz)
Power Values	VA, W, var, PF, Unbalance, Distortion
Energy Values	Vah, Wh, varh
Harmonics THD: % r, % f	Yes
Harmonics Range	1 to 127 th Order
Interharmonics Range	1 to 126 th 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 x 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	IP 54

Consult factory for NIST Calibration prices.

⁽¹⁾ With any MiniFlex® or Ampflex® current sensors

⁽²⁾ With MN193 current probe

⁽³⁾ With MR193 current probe

⁽⁴⁾ With E94 current probe

⁽⁵⁾ Using EN50160 parameters with the supplied SD card

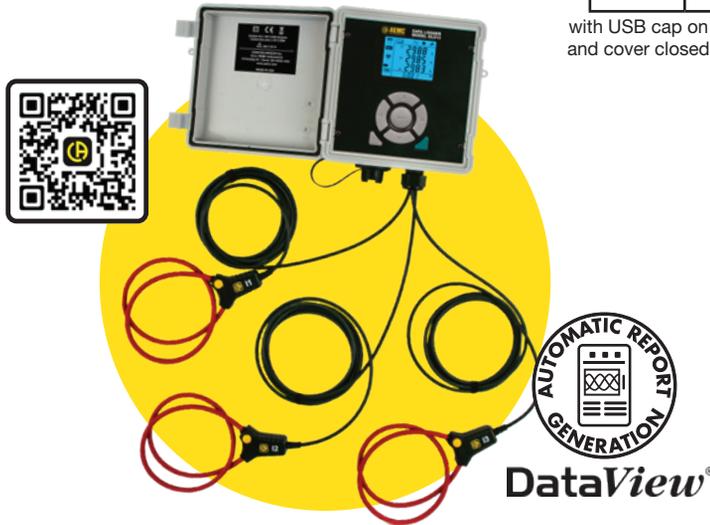
⁽⁶⁾ At 60 Hz nominal frequency

Power & Energy Analysis

Voltage Data Logger Model DL913



with USB cap on and cover closed



Validating motor and compressor performance in HVAC systems requires more than a single point-in-time. Measurement requires reliable, long-term current data collected directly at the load. The AEMC® Instruments Data Logger Model DL913 is a waterproof, three-channel AC current data logger designed to monitor balanced three-phase loads continuously for up to 30 days.

Equipped with three integral 24-inch MiniFlex® flexible current sensors, it installs around conductors in minutes without breaking the circuit, making it the practical choice for monitoring fans, pumps, compressors, and air handling unit motors in operational facilities.

KEY FEATURES

- ▶ Three-channel AC current measurement with MiniFlex® flexible sensors
- ▶ Simultaneous three-phase load monitoring for balanced load validation
- ▶ Current measurement range: (300 / 3000) AAC (per channel)
- ▶ LCD displays real-time current measurements, memory status, and communication status across all three channels simultaneously.
- ▶ IP67 waterproof rating — suitable for rooftop, outdoor, and wet mechanical room installations
- ▶ Built-in web server displays real time and recorded values
- ▶ Internal 8 GB memory with DataView® software for configuration, analysis, and reporting

APPLICATIONS

- ▶ Long-term three-phase motor and compressor load monitoring for predictive maintenance
- ▶ Phase imbalance detection before it causes motor or compressor damage
- ▶ Balanced load profiling and trending on fans, pumps, and condensing units
- ▶ Energy audit documentation for HVAC circuit efficiency studies
- ▶ Post-retrofit verification of VFD and motor replacement performance
- ▶ Rooftop/outdoor HVAC equipment monitoring in harsh environments

WHY IT MATTERS: The Model DL913 allows facility engineers and service technicians to document baseline load conditions across all three phases simultaneously, detect gradual imbalance over time, and verify that loads are operating within design parameters without interrupting system operation.

MODEL	DL913
ELECTRICAL	
Measurements	Three-phase AC current – simultaneous balanced load monitoring across all three channels
Measurement Range	(300 / 3000) AAC per channel
Display	LCD – real-time current, memory, and communication status across all three channels
Memory	Internal 8 GB
Battery Life	Normal mode: 4 days Extended mode: 7 to 30 days External power: Unlimited
Connectivity	USB, Wi-Fi via router (Ethernet), or Wi-Fi Direct – built-in web server
Display	Backlit LCD
Software	DataView® – configuration, analysis, and reporting
Power Source	Internal NiMH rechargeable battery pack / USB

Consult factory for NIST Calibration prices.

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

Power & Energy Analysis

AC & DC Data Logger Model L461

The Model L461 Voltage Data Logger is designed to record and monitor voltage performance in single-phase and three-phase electrical systems. Compact and easy to deploy, it captures voltage trends, events, and fluctuations that impact HVAC equipment reliability. It is **ideal for identifying voltage imbalance, dips, and supply instability** in commercial and industrial environments.

WHY IT MATTERS: Voltage instability is a common cause of motor overheating, drive faults, and premature equipment failure. The L461 allows technicians and facility managers to document real-world voltage conditions, supporting faster diagnostics, improved reliability, and data-driven maintenance decisions.

KEY FEATURES

- ▶ Measures and logs single-phase AC + DC voltage
- ▶ 1-second TRMS voltage trend logging — enables basic voltage quality analysis via DataView® Control Panel
- ▶ Records voltage trends, min/max values, and events
- ▶ Adjustable aggregation periods for detailed or long-term studies
- ▶ Compact enclosure designed for panel installation
- ▶ Built-in web server: browser access for live voltage, mode switching, recording config — no app required
- ▶ Internal memory for extended recording sessions
- ▶ USB and Wi-Fi communication (model dependent)
- ▶ FREE DataView® software for configuration and reporting
- ▶ Internal battery for temporary installations

APPLICATIONS

- ▶ Monitoring voltage stability in HVAC panels
- ▶ Identifying voltage imbalance affecting compressors
- ▶ Detecting dips and swells causing nuisance trips
- ▶ Evaluating supply quality for VFD-driven equipment
- ▶ Commissioning rooftop units and mechanical rooms
- ▶ Long-term trending of facility voltage performance

	600 V CAT IV	1000 V CAT III	1500 V DC CAT III		



**DataView®
DataViewSync™**



CAT. #	DESCRIPTION
2153.54	Voltage Data Logger Model L461



Capture the voltage issues that quietly damage HVAC and electrical systems.

Electrical Measurements

Digital Tachometer Model CA 1727

Accurate verification is essential during HVAC installation, startup, and maintenance. The Electrical Testers category includes specialized tools designed to **confirm phase sequence, circuit continuity, and motor rotational speed**, helping technicians **ensure systems are wired correctly and operating as intended**. These instruments provide fast, reliable validation that protects equipment, reduces commissioning errors, and supports safe, efficient system performance.

The Model 1727 Digital Tachometer provides fast and accurate non-contact RPM measurement for motors, fans, and rotating equipment in HVAC systems. Using optical sensing technology, it allows technicians to **verify rotational speed without physical contact**—improving safety and simplifying diagnostics during installation and maintenance.



WHY IT MATTERS: Incorrect motor speed affects airflow, system efficiency, and equipment lifespan. The Model 1727 allows technicians to quickly confirm that motors and fans operate at the correct RPM—helping ensure proper airflow, balanced performance, and reliable HVAC operation.

KEY FEATURES

- ▶ Non-contact optical RPM measurement
- ▶ Wide measurement range for HVAC motors and fans
- ▶ Laser targeting for precise alignment
- ▶ High-resolution digital display
- ▶ Min/Max recording function
- ▶ Compact, handheld design
- ▶ Battery powered for field portability

APPLICATIONS

- ▶ Verifying blower motor speed
- ▶ Checking fan RPM in air handling units
- ▶ Confirming proper motor performance after replacement
- ▶ Diagnosing belt slippage and mechanical wear
- ▶ Commissioning variable-speed drive systems
- ▶ Preventive maintenance inspections

MODEL 1727 MEASUREMENTS

Rotational Speed	Range: (6 to 100,000) RPM Resolution: (0.0006 to 6) RPM depending on range
Linear Speed Function	Range: (0.1 to 10,000) m / min or ft / min Resolution: (0.0006 to 6) m / min or ft / min depending on range
Frequency Function	Range: (0.1 to 10,000) Hz Resolution: (0.0004 to 0.4) Hz depending on range
Period Function	Range: (0.1 to 10,000) ms Resolution: (0.0003 to 0.3) ms depending on range
Duty Cycle Function	Range: (10 to 10,000) % Resolution: (0.1 to 1) % depending on range
Count Function	Range: 0 to 99,999 events; Accuracy: ± 1 event

Consult factory for NIST Calibration prices.

CAT. #	DESCRIPTION
1748.30	Digital Tachometer Model CA 1727

Electrical Measurements

Continuity Tester Model 6011

The Model 6011 Continuity Tester provides **simple, fast verification of circuit integrity**. Designed for quick field checks, it confirms wiring continuity without a complex setup.



WHY IT MATTERS: Reliable continuity testing prevents misdiagnosis and ensures control circuits function properly before system startup.

KEY FEATURES

- ▶ Low-resistance continuity testing
- ▶ Audible continuity indication
- ▶ Rugged handheld or wrist-mounted design
- ▶ Simple operation, continually tests

APPLICATIONS

- ▶ Checking thermostat wiring
- ▶ Verifying control circuit continuity
- ▶ Testing fuses and safety switches
- ▶ Confirming ground connections



Easily test hard-to-reach components!

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	IP 40

Consult factory for NIST Calibration prices.

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

Electrical Measurements

Phase Rotation Meter Model 6610

	600 V CAT IV	1000 V CAT III		
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The Model 6610 Phase Rotation Meter verifies proper phase sequence in three-phase power supply from (75 to 1000) VAC using static induction technology. Because **it does not require direct metallic contact with live conductors**, it provides a safer method for confirming correct motor rotation during HVAC installation and commissioning.

WHY IT MATTERS: Incorrect phase sequence can cause immediate motor or compressor damage. The Model 6610 provides a fast, safe way to confirm proper wiring before energizing equipment — protecting both technicians and HVAC systems.

KEY FEATURES

- ▶ Static induction measurement — no direct metallic contact needed
- ▶ Automatic testing as soon as the instrument is connected
- ▶ Indicates clockwise or counterclockwise phase rotation
- ▶ Indication of live phase presence or phase absence
- ▶ Bright LED phase sequence indication
- ▶ Compact, lightweight design
- ▶ Rugged housing for field use

APPLICATIONS

- ▶ Confirming correct compressor and pump rotation
- ▶ Verifying phase sequence before equipment startup
- ▶ Preventing reverse rotation damage
- ▶ Commissioning rooftop units and mechanical systems
- ▶ Checking three-phase supply wiring



CAT. #	DESCRIPTION
2121.12	Phase Rotation Meter Model 6610 (Non-contact)

Electrical Measurements

Phase Rotation Meter Model 6612

The Model 6612 Phase Rotation Meter is designed to **verify phase sequence and motor rotation in three-phase power supply using direct connection measurement**. Line-powered and built for industrial environments, it provides clear LCD indication of phase orientation across a wide frequency range. It is ideal for commissioning, troubleshooting, and verifying proper wiring in commercial and industrial applications.



WHY IT MATTERS: Incorrect phase sequence can result in reverse motor rotation, equipment malfunction, or immediate compressor and pump damage. The Model 6612 provides a dependable, **direct-connection method for confirming correct wiring before energizing equipment**—helping protect assets and ensure safe system startup.



KEY FEATURES

- ▶ Direct connection measurement with color-coded leads
- ▶ Automatic testing as soon as the instrument is connected
- ▶ LCD display with clear phase rotation arrow indication
- ▶ Indication of live phase presence or phase absence
- ▶ Wide frequency range (15 to 400) Hz
- ▶ Operating voltage from (40 to 850) V_{AC} (*phase-to-phase*)
- ▶ Line powered — no battery required
- ▶ Compact, lightweight design

APPLICATIONS

- ▶ Verifying motor rotation during installation
- ▶ Commissioning three-phase HVAC and industrial systems
- ▶ Checking phase sequence in variable frequency applications
- ▶ Confirming proper wiring before startup
- ▶ Troubleshooting incorrectly wired panels



MODEL	6610	6612
Connection Method	Non-contact static induction	Direct connection (<i>color-coded leads</i>)
Operating Voltage	(75 to 1000) V _{AC}	(40 to 850) V _{AC} (<i>phase-to-phase</i>)
Frequency Range	(45 to 65) Hz	(15 to 400) Hz
Phase Indication	LED (ABC / BAC)	LCD with rotation arrow
Power Source	9V battery	Line powered
Auto Power Off	Yes	—
Low Battery Indicator	Yes	—
Max Conductor Diameter	1.18 in (30 mm)	—
IP Rating	IP 40	
Safety Rating	1000 V CAT III 600 V CAT IV	1000 V CAT III 600 V CAT IV
Weight	13.1 oz (375 g)	4.8 oz (137 g)

Consult factory for NIST Calibration prices.

CAT. #	DESCRIPTION
2121.91	Phase Rotation Meter Model 6612

Electrical Measurements

Handscope Harmonic Analyzer Model OX 5042B

Diagnosing HVAC electrical faults demands more than a voltage reading — you need visibility into waveform quality, harmonic content, and transient behavior across motors, drives, and compressors.

Model OX 5042B delivers exactly that: a 40 MHz oscilloscope, dual-channel 8000-count TRMS multimeter, and harmonic analyzer in one hand-held device; bench-level depth, battery-powered portability.



KEY FEATURES

- ▶ Two fully isolated channels — safe for simultaneous measurement across motor and control circuits
- ▶ 40 MHz oscilloscope mode with up to 2 GS/s sampling
- ▶ Dual 8000-count TRMS multimeter mode with instantaneous measurement at the press of a button
- ▶ Harmonic analyzer mode: 31st order analysis, total harmonic distortion (THD), and fundamental frequency from (40 to 450) Hz
- ▶ AC voltage range: (600 mV to 600) Vrms; DC voltage range: (800 mV to 800) VDC
- ▶ Graphic recording of 2700 measurements (5 min to 1 month)
- ▶ Isolated optical USB interface with SX-Metro® PC software included

APPLICATIONS

- ▶ Diagnosing VFD-driven air handlers, chillers, and compressors for harmonic disturbance
- ▶ Evaluating voltage imbalance affecting compressor motor efficiency and lifespan
- ▶ Troubleshooting nuisance breaker trips and unexplained shutdowns
- ▶ Verifying waveform quality before and after power conditioning equipment installation
- ▶ Commissioning and startup verification of motor drive systems
- ▶ Measuring mV drop across contactors, breakers and switches

WHY IT MATTERS: Variable-frequency drives (VFDs) and soft-start controllers are the leading source of harmonic distortion in modern HVAC systems – causing motor overheating, nuisance trips, reduced compressor life, and control board failures that standard clamp meters simply can't see. **The OX 5042B lets technicians and engineers visualize harmonics up to the 31st order, capture real-time waveforms, and document conditions before and after corrective action – cutting downtime and extending equipment life.**

MODELS	OX 5042B
Measurements	Oscilloscope, TRMS Multimeter (V, A, W, VA, VAR, PF, Ω, C, Hz), Harmonic Analyzer
AC Voltage Range	(600 mV to 600) Vrms
DC Voltage Range	(800 mV to 800) Vdc
Oscilloscope Bandwidth	40 MHz – 2 fully isolated channels – up to 2 GS/s sampling rate
Harmonic Analysis	Up to 40th order – fundamental frequency (40 to 450) Hz – THD, Vrms per order
Display	3.5 in color LCD – 8000-count TRMS digital display with LED backlight
Connectivity	Optical USB – SX-Metro® software included
Power Source	(6) AA rechargeable batteries – up to 8 h 30 min battery life

Consult factory for NIST Calibration prices.

CAT. #	DESCRIPTION
2150.21	Handscope Portable Harmonic Analyzer Model OX 5042B (2-Channel, 40 MHz)



Electrical Measurements

TRMS Clamp-On Meter Model 205

The Model 205 is a versatile True RMS clamp meter designed for HVAC electrical troubleshooting and system verification. In addition to standard voltage and current measurements, it provides **phase rotation indication and power measurements**—making it especially useful during equipment installation and startup.

WHY IT MATTERS: Incorrect phase rotation can cause motor damage, reverse rotation, and immediate system failure. Built-in power measurement and phase verification allow technicians to confirm proper installation, ensure efficient operation, and prevent costly equipment damage before startup.

KEY FEATURES

- ▶ True InRush® current measurement with 100 mS capture
- ▶ AC/DC voltage measurement
- ▶ Real power (kW) measurement
- ▶ Phase rotation indication (3-phase systems)
- ▶ Resistance and continuity testing
- ▶ Compact, ergonomic clamp design
- ▶ UL 94 VI flame retardant self-extinguishing

APPLICATIONS

- ▶ Verifying correct phase rotation during motor installation
- ▶ Measuring power draw of compressors and blower motors
- ▶ Checking line and control voltage
- ▶ Diagnosing improperly wired 3-phase systems
- ▶ Evaluating load conditions during startup
- ▶ Routine HVAC electrical service



MODEL	205
JAW	
Jaw Size	1.34 in (34 mm)
ELECTRICAL	
AC Voltage (<i>rms</i>)	1000 V
DC Voltage	1000 V
AC Current Peak (<i>rms</i>)	600 A
DC Current Max	900 A
Frequency Measurement (<i>Current</i>)	5 Hz to 3 kHz
Resistance Measurement Range	(0.1 to 99.99) kΩ
Count	10,000
POWER	
Power Measurement	Yes
Energy Measurement	Yes
Harmonics ⁽¹⁾	Yes
Recording	Yes
Communication and Reporting	Yes
Power Source	(4) AA batteries

Consult factory for NIST Calibration prices.

⁽¹⁾ To the 25th order

CAT. #	DESCRIPTION
2139.40	Power Clamp-On Meter Model 205 (TRMS, 1000 V _{AC/DC} , 600 A _{AC} /900 A _{DC} , Ohms, Continuity, Phase Rotation, Power, THD)

Electrical Measurements

TRMS Clamp-On Meter Model 505

From confirming control voltage to checking continuity across contractors and heating elements, routine HVAC service requires dependable electrical measurements. AEMC® electrical test instruments provide **fast, safe measurement of voltage, resistance, and continuity in both low- and line-voltage circuits**. Designed for daily field use, these tools simplify electrical troubleshooting.



The Model 505 is a True RMS clamp meter designed for electrical troubleshooting in commercial and industrial HVAC systems. Compact and rugged, it delivers **accurate AC current and voltage measurements in tight panel environments**.

WHY IT MATTERS: Accurate current and voltage measurement ensures motors and controls operate within design limits—preventing overheating, nuisance trips, and premature failure.



KEY FEATURES

- ▶ True RMS AC current measurement
- ▶ Voltage measurement up to 600 V AC + DC
- ▶ Resistance measurements up to 600 Ω
- ▶ Continuity with audible indicator below 35 Ω
- ▶ Data HOLD function
- ▶ Compact jaw design for confined panels
- ▶ 42-segment analog bar graph
- ▶ Compact size - fits into your pocket

APPLICATIONS

- ▶ Verifying compressor and blower motor current
- ▶ Checking line and control voltage
- ▶ Troubleshooting contractors and relays
- ▶ Confirming breaker load levels
- ▶ Routine electrical service checks

MODELS	505
JAW	
Jaw Size	1.18 in (30 mm)
ELECTRICAL	
AC Voltage (Auto-Ranging)	(0.5 to 600) V
DC Voltage (Auto-Ranging)	(0.2 to 600) V
AC Current (Auto-Ranging)	(0.05 to 400) A
DC Current (Auto-Ranging)	(0.10 to 400) A
Resistance Measurement Range	(0.2 to 600) Ω
Max Test Voltage	1.5 Vdc
Zero Mode / Delta Function	Yes
Peak + / - Function	Yes / No
POWER	
Power Source	(2) AAA, IEC LR3 (included)
Battery Life	40 h

Consult factory for NIST Calibration prices.

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

Electrical Measurements

Cable Verification & Tracing Analyzer Model 6683

The Model 6683 Cable Tracer is designed to locate and trace current carrying conductors, low-voltage control, thermostat wiring, and even metallic pipes in HVAC systems. It enables technicians to **identify broken, misrouted, or disconnected conductors without opening walls or removing large sections of wiring**. Ideal for troubleshooting control circuits, it simplifies fault isolation and reduces diagnostic time.

300 V
CAT III



WHY IT MATTERS: Broken control wiring can cause intermittent failures, system lockouts, and unnecessary component replacement. The Model 6683 allows technicians to **quickly isolate wiring faults, minimize invasive troubleshooting**, and restore HVAC systems to proper operation with less downtime.

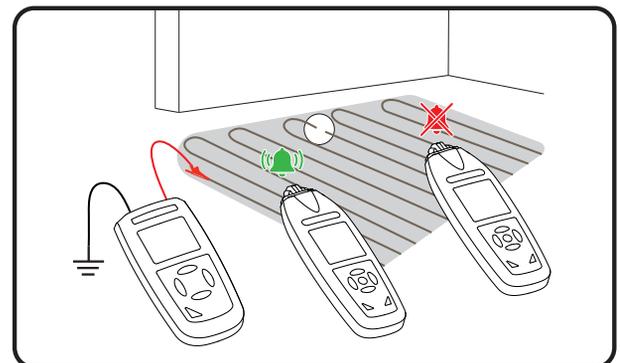


KEY FEATURES

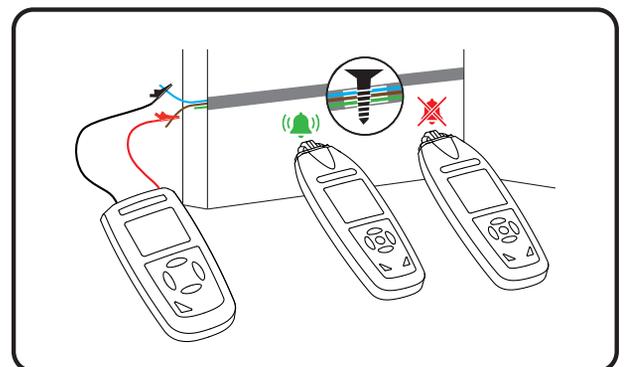
- ▶ Transmitter and receiver for accurate wire tracing
- ▶ Identifies and traces low-voltage control wiring
- ▶ Locates open or broken conductors
- ▶ Adjustable sensitivity for precise fault location
- ▶ Visual and audible signal indication
- ▶ Compact, portable design for service work

APPLICATIONS

- ▶ Tracing thermostat wiring between air handler and condensers
- ▶ Locating broken or damaged control conductors
- ▶ Identifying disconnected low-voltage circuits
- ▶ Troubleshooting intermittent control faults
- ▶ Verifying proper wiring paths during installation
- ▶ Tracing metallic water and steam pipes



Detect faults in an underfloor heating system (unshielded)



Locate damaged cables

CAT. #

DESCRIPTION

2127.89

Cable Verification & Tracing Analyzer Model 6683

Electrical Measurements

Digital Multimeter Model 5217



WARRANTY
3 YEARS
WARRANTY

Register online within 30 days of purchase



KEY FEATURES

- ▶ True RMS AC voltage and current measurement
- ▶ AC/DC voltage measurement
- ▶ Capacitance measurement for motor start/run capacitors
- ▶ Resistance and continuity testing with audible indication
- ▶ Frequency measurement capability
- ▶ Diode test function
- ▶ Data HOLD and backlit display
- ▶ Rugged handheld design for field environments

APPLICATIONS

- ▶ Testing motor start and run capacitors
- ▶ Verifying line and control voltage
- ▶ Diagnosing compressor and blower circuits
- ▶ Testing contractors, relays, and thermostats
- ▶ Measuring frequency in control circuits
- ▶ Confirming fuse and breaker integrity
- ▶ General HVAC electrical troubleshooting

The Model 5217 is a professional True RMS digital multimeter designed for comprehensive electrical diagnostics in HVAC systems. In addition to voltage and resistance testing, **it provides capacitance measurement capability—making it especially valuable for evaluating motor start and run capacitors.** Built for field durability, it supports installation, troubleshooting, and preventive maintenance.

WHY IT MATTERS: Failed or drifting capacitors are one of the most common causes of HVAC motor failure. Built-in capacitance measurement allows technicians to quickly confirm capacitor health, prevent unnecessary motor replacements, and restore systems to reliable operation.



CAT. #	DESCRIPTION
2154.09	DMM Model 5217 (TRMS, 6000-cts, NCV, V, A, AC/DC, Ohm, T, Frequency, Auto HOLD)

*Find insulation breakdown before it takes
motors and compressors offline*



Insulation Resistance Testing

Megohmmeter Model 6526

Motors, compressors, and long conductor runs in HVAC systems are vulnerable to insulation breakdown caused by moisture, heat, and aging.

Our megohmmeters provide **controlled high-voltage insulation resistance testing to evaluate motor windings and cable integrity before catastrophic failure occurs**. Advanced models offer timed tests including DAR and PI for deeper analysis.



The Model 6526 is a portable insulation resistance tester designed for routine motor and cable testing in HVAC and industrial electrical systems. It provides selectable test voltages and advanced diagnostic functions to detect insulation degradation before equipment failure occurs. Compact and rugged, it is ideal for field service and preventive maintenance programs.

WHY IT MATTERS: Insulation breakdown is a leading cause of motor and compressor failure. The Model 6526 allows technicians to identify deterioration early—preventing catastrophic equipment damage, reducing downtime, and protecting expensive HVAC assets.



KEY FEATURES

- ▶ Selectable insulation test voltages (50 to 1000) V
- ▶ Insulation resistance measurement up to 200 GΩ
- ▶ DAR (Dielectric Absorption Ratio) calculation
- ▶ PI (Polarization Index) testing capability
- ▶ Automatic discharge after test
- ▶ Live circuit voltage detection for safety
- ▶ AC/DC voltage measurement
- ▶ Backlit display for field environments
- ▶ Simple-to-use, compact and lightweight field-ready design
- ▶ FREE DataView® software for configuring, real-time communication with a PC and report generation

APPLICATIONS

- ▶ Compressor motor winding testing
- ▶ Blower and condenser motor insulation verification
- ▶ Rooftop unit cable evaluation
- ▶ Preventive maintenance programs
- ▶ Moisture ingress detection
- ▶ Service-level troubleshooting

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

Insulation Resistance Testing

Megohmmeter Model 6529

The Model 6529 is a compact insulation resistance tester designed for routine insulation verification in HVAC and commercial electrical systems. Offering essential test voltages and core insulation measurement capability, it provides a straightforward solution for service technicians performing motor and cable testing. It delivers dependable results in a simplified, field-ready platform.

WHY IT MATTERS: Routine insulation testing helps identify developing failures before motors or compressors are damaged. The Model 6529 provides a practical, easy-to-use solution for insulation checks to support safe startup and reliable HVAC system operation without the complexity of advanced diagnostic testing.



*with leads connected



KEY FEATURES

- ▶ Selectable insulation test voltages
- ▶ Insulation resistance measurement to 11 GΩ
- ▶ Automatic discharge after testing
- ▶ Live circuit voltage detection for operator safety
- ▶ AC/DC voltage measurement
- ▶ Clear digital display for quick interpretation
- ▶ Portable, lightweight design for service work

APPLICATIONS

- ▶ Routine compressor motor insulation checks
- ▶ Blower motor verification
- ▶ Cable insulation validation
- ▶ Preventive maintenance inspections
- ▶ Service-level electrical troubleshooting

CAT. #	DESCRIPTION
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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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MODELS	6526	6529
INSULATION RESISTANCE TESTING FUNCTIONS		
Test Voltage	Variable (10 to 100) V (1 V steps)	Selectable test voltages (50, 100, 250, 500 and 1000) V
Maximum Resistance Measurement ⁽¹⁾	200 GΩ	11 GΩ
Typical Accuracy	± 3 % ± 3 counts	
Timer	(0 to 40) min	
PI / DAR	Yes	
Alarms	Yes	
Remote Probe Compatible	Yes	–
ELECTRICAL - MULTIMETER FUNCTIONS		
Voltage	700 Vdc/ac	
Resistance	1000 KΩ	400 KΩ
Continuity	100 Ω	40 Ω
Lead Compensation	Yes	
Capacitance	0.1 n to 10 μF	–
DATA STORAGE & REPORTING		
Data Storage and DataView® Reporting	Yes	–
Bluetooth®	Yes	–
GENERAL		
Display	Backlit digital w/ bargraph	Backlit digital
Power Source	(6) AA alkaline batteries	
SAFETY & ENVIRONMENT		
CAT Rating	600 V CAT IV	
IP Rating	IP 54	IP 40
RECOMMENDED USES		
Cable and Wire ≤ 600 V	Yes	
Low Voltage Motors < 480 V	Yes	
Low Voltage Transformers	Yes	

Consult factory for NIST Calibration prices.

⁽¹⁾ Specific to test voltage



INDOOR ENVIRONMENT QUALITY

- 

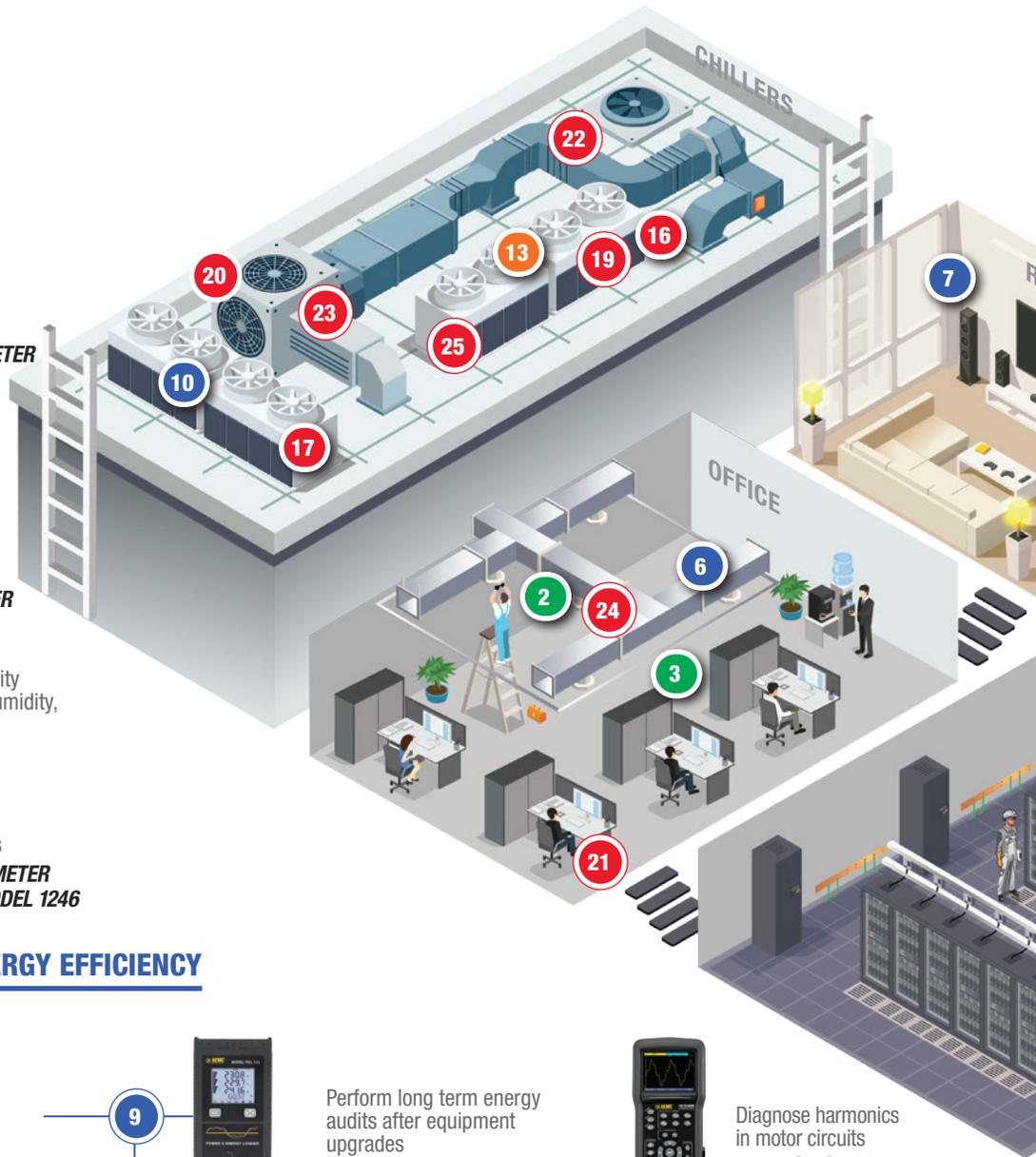
1 Measure and create lighting intensity maps for compliance studies
LIGHTMETER DATA LOGGER MODEL 1110
- 

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

3 Log CO₂ 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 CO₂ 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
- 

25 Diagnose harmonics in motor circuits
HARMONIC ANALYZER MODEL OX 5042B
- 

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

**CONTROLS, SENSORS,
AND SIGNAL VALIDATION**

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



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



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



**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



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 MULTI-METER MODEL 5217



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



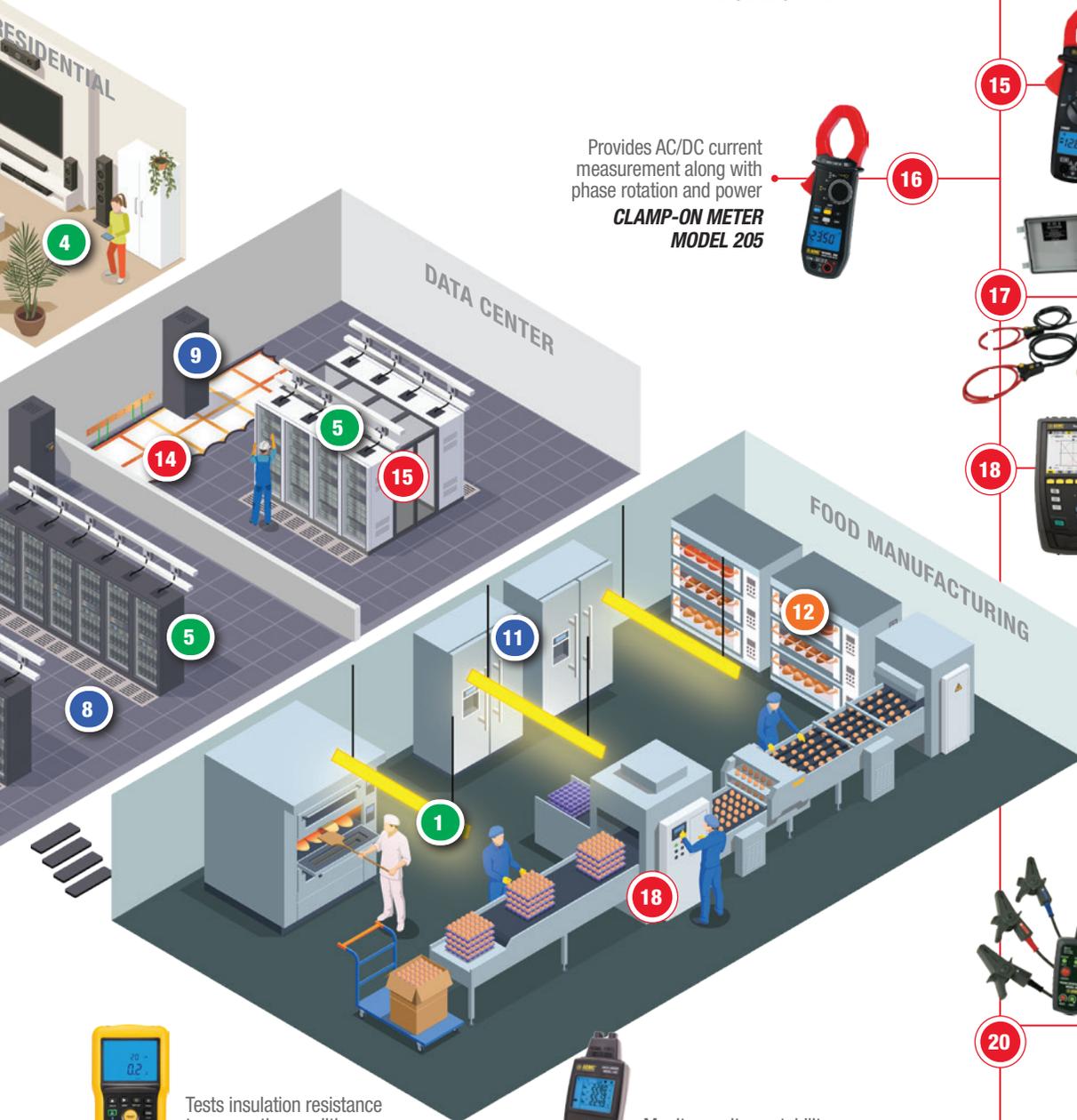
21 Locates and traces energized or de-energized cables to simplify circuit identification and troubleshooting
CABLE TRACER MODEL 6683



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



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





Family of Products

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