

# Data Loggers

## MODELS L411, L412 & L461



### L400 SERIES: A FAMILY of DATA LOGGERS SHARING:

One DataView® Ecosystem, USB and Wi-Fi Connectivity, DataViewSync™ Remote Access, and 10-Week Battery Operation in Extended Mode

- ▶ **1-second Trend Logging**  
Full granularity data available through DataView® Control Panel
- ▶ **Adaptable**  
Adjustable aggregation intervals to match application needs
- ▶ **Accurate**  
True RMS measurement ensures reliable readings
- ▶ **Flexible & Remote Operation**  
Start & stop recordings from the display, control panel, or remote user interface
- ▶ **Reliable Storage Memory**  
Stores up to 200 recording sessions with onboard memory
- ▶ **Long-lasting**  
Continuous USB power eliminates battery life limitations for uninterrupted monitoring

*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](http://www.aemc.com)**

**AEMC®**  
INSTRUMENTS  
CHAUVIN ARNOUX GROUP

# Single-Channel AC Current Logger

## Model L411



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

The **AEMC® Data Logger Model L411** is a single-channel, True RMS AC current logger with an integrated **MiniFlex® flexible Rogowski sensor** rated up to **3000 Aac**. Think of it as the logging version of the 4000D FlexProbe® — same flexible sensor convenience, now with configurable recording modes for extended field deployments.

Where the L411 stands apart is in its **1-second trend resolution**. Every second, a TRMS measurement is captured and stored — the same data density you'd expect from a power energy logger (PEL). That 1s data is fully accessible through the DataView® Control Panel for analysis, charting, and reporting. For load profiling or demand audits, that matters.

The instrument runs on three **AA alkaline batteries** or continuous USB power — plug into a panel's USB outlet or wall adapter for uninterrupted operation with no recording gaps. Data is stored on an **8 GB micro SD card** supporting up to **200 recording sessions**, transferable via USB or Wi-Fi.

### APPLICATIONS

- ▶ Load profiling and demand analysis
- ▶ Energy audits
- ▶ Commissioning and verification
- ▶ Predictive and preventive maintenance
- ▶ Solar PV monitoring
- ▶ Troubleshooting intermittent current issues
- ▶ Remote data collection

### FEATURES

- ▶ **1-second TRMS trend logging** — full granularity data available through DataView® Control Panel
- ▶ **MiniFlex® flexible Rogowski sensor** — accommodates tight spaces and large conductors, and clamps around conductors without circuit interruption
- ▶ **Selectable 300 A or 3000 A range** — measures from as low as 0.4 Aac up to 3600 Aac
- ▶ **True RMS measurement** with  $\pm 1\%$  accuracy
- ▶ **DataViewSync™ support** for cloud-based remote access over public/private networks
- ▶ Magnetic mount + notch hanging for **versatile placement in any panel room**
- ▶ **Backlit LCD** with real-time measurement and maximum mode display
- ▶ **Frequency measurement** — (45 to 65) Hz, 0.01 Hz resolution
- ▶ **Built-in web server** — access live data, configure recordings, and sync time from any browser — no app install
- ▶ **Wi-Fi AP mode** broadcasts its own network — Station mode connects to facility Wi-Fi for DataViewSync™ remote access
- ▶ Two-button recording start/stop — **no menus to navigate**
- ▶ Reliably **stores up to 200 recording sessions** with onboard memory
- ▶ **Flexible operation** — start and stop recordings from the instrument display, control panel, or remote user interface on a mobile device
- ▶ **Battery or USB powered** — USB enables continuous uninterrupted operation



✓2-Year Limited Warranty ✓NIST-Traceable Calibration Available ✓Free Software/Firmware Updates

### PRODUCT INCLUDES

**Data Logger Model L411 (1-CH, TRMS, w/LCD, 3000 Aac, DataView® software) . . . . . Cat. #2153.52**

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.

# Dual-Channel AC Current Logger

## Model L412



### Two Channels. One Logger. Any Sensor.

The **AEMC® Data Logger Model L412** is a dual-channel True RMS AC current logger with two current probe terminals — compatible with virtually every AEMC current sensor in the PEL and PowerPad family. Where the L411 gives you one flexible sensor built in, the L412 gives you **two configurable channels** and the flexibility to choose the right sensor for whatever you're measuring — from **10 mA** on a sensitive control circuit up to **25,000 A** on a main feeder (using a ratio-configured MN193-BK).

Both channels record **1-second TRMS measurements simultaneously** and independently. That 1s trend data — similar granularity as a PEL — is fully accessible through the DataView® Control Panel for analysis, comparison, and reporting across both circuits in the same session.

Like the rest of the L400 Series, the L412 runs its own **built-in web server**. Connect via Wi-Fi in AP mode (*its own broadcast network*) or Station mode (*your facility network*), open a browser on any device, and you're live — no app, no software install, no laptop required on site. Remote access via **DataViewSync™** extends that reach to anywhere with internet access.



Sensors sold separately.

✓ 2-Year Limited Warranty ✓ NIST-Traceable Calibration Available ✓ Free Software/Firmware Updates

### PRODUCT INCLUDES

**Data Logger Model L412 (2-CH, TRMS, w/LCD, Current, DataView® software). . . . . Cat. #2153.53**

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.

### L1 and L2 — Independent & Simultaneous

#### Primary Current Input (Channel 1 — L1)

Accepts any compatible AEMC current probe. Frequency measurement is available on **Channel 1 only** ((45 to 65) Hz, 0.01 Hz resolution).

#### Secondary Current Input (Channel 2 — L2)

Logs independently from L1 with identical measurement specifications. If two sensors are connected, they must be the same model. If sensors don't match, the OL indicator blinks as a warning. L2 does not measure frequency.

### APPLICATIONS

- ▶ Load profiling and demand analysis
- ▶ Dual-circuit load and low-level control circuit monitoring
- ▶ Energy audits and efficiency studies
- ▶ Predictive and preventive maintenance
- ▶ High-current main feeder logging
- ▶ Troubleshooting intermittent current issues

### FEATURES

- ▶ **Two independent current probe terminals** — L1 and L2 log simultaneously
- ▶ **Compatible with the full PEL/PowerPad sensor family**
- ▶ **Sensor auto-detection** — plug in a compatible probe and the L412 automatically recognizes the probe model
- ▶ Supports a **wide range of current probes** to handle multiple applications (see *Probe & Sensors Selection Chart* on page 10)
- ▶ **1-second TRMS trend logging on both channels**, accessible via DataView® Control Panel
- ▶ Captures **single or dual-channel measurements** simultaneously
- ▶ **Built-in web server** — browser access for live data, recording config, and time sync — no app required
- ▶ **Wi-Fi AP mode broadcasts its own network** — Station mode joins facility Wi-Fi for DataViewSync™
- ▶ **Battery or USB powered** — USB enables continuous uninterrupted operation
- ▶ Two-button recording start/stop — **no menus to navigate**
- ▶ **Flexible operation** — start and stop recordings from the instrument display, control panel, or remote user interface on a mobile device
- ▶ **Adjustable aggregation intervals** for detailed or long-duration monitoring
- ▶ Reliably **stores up to 200 recording sessions** with onboard memory



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# AC/DC Voltage Logger *Model L461*



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

The **AEMC® Data Logger Model L461** is the only logger in the L400 Series that measures voltage — and the only one in the series that handles DC. It's a **2-input, single-channel** TRMS AC/DC voltage quality logger built specifically for **distribution monitoring** and **solar PV applications**, with a voltage range that covers virtually every situation you'll encounter: up to **1200 V<sub>AC</sub>** for AC circuits and up to **1700 V<sub>DC</sub>** for DC systems including solar strings, battery banks, and DC bus rails.

Like the rest of the L400 Series, the L461 offers **1-second TRMS trend logging** — accessible through the DataView® Control Panel — enabling basic voltage quality analysis: documenting **voltage sags, swells, and fluctuations** at a resolution that longer-interval loggers simply can't provide. For solar PV verification, distribution auditing, or any application where voltage stability matters, this is the meaningful differentiator.

The L461 also runs a **built-in web server**. Connect via Wi-Fi, open a browser, and you're live — no software, no app, no laptop needed on site. Battery or **USB power** keeps it running continuously when plugged into a panel outlet or wall adapter.



## APPLICATIONS

- ▶ Solar PV system monitoring
- ▶ Voltage trend analysis
- ▶ Outlet level troubleshooting
- ▶ Distribution panel monitoring

## FEATURES

- ▶ **Switchable AC/DC mode** — one instrument covers distribution and solar PV in a single deployment
- ▶ **1-second TRMS voltage trend logging** — enables basic voltage quality analysis via DataView® Control Panel
- ▶ **1200 V<sub>AC</sub> range** covers single-phase distribution, inverter output, and utility feeds
- ▶ **1700 V<sub>DC</sub> range** covers solar PV strings, battery systems, DC bus rails, and EV charging infrastructure
- ▶ **Built-in web server** — browser access for live voltage, mode switching, recording config — no app required
- ▶ **Wi-Fi AP mode** broadcasts its own network — **Station mode** joins facility Wi-Fi for DataViewSync™
- ▶ **Flexible operation** — start and stop recordings from the instrument display, control panel, or remote user interface on a mobile device
- ▶ **True RMS** measurement ensures accurate voltage readings
- ▶ **Includes safety leads and alligator clips** rated for the full voltage range
- ▶ **Extended recording mode** supports long-term voltage studies
- ▶ **Battery or USB powered** — USB enables continuous uninterrupted operation

## PRODUCT INCLUDES

**Data Logger Model L461 (1-CH, TRMS, w/LCD, 1200 V<sub>AC</sub> / 1700 V<sub>DC</sub>, DataView® software, voltage input for solar panels) . . . . . Cat. #2153.54**

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



# L400 Series

## Specifications

MODELS	L411	L412	L461
ELECTRICAL			
Measurement Type	AC Current		AC/DC Voltage
Channels	1	2	1
Measurement Range	(0.4 to 3600) A	10 mA to 25,000 A*	AC: (10 to 1200) V DC: (10 to 1700) V
Sensor Type	Integrated MiniFlex®	Compatible current probes & sensors ( <i>see page 10</i> )	N/A
Frequency Range	(45 to 65) Hz		
Accuracy	± (1% R + 5 counts typical)	± (1% R + sensor dependent)	± (1% R + 5 counts typical)
Resolution	Up to 10 mA	Sensor dependent	up to 100 mV
GENERAL			
Power Supply	(3) AA batteries or USB		
Battery Life	Up to 3 days		
RECORDING			
Normal Mode	3 days		
Extended Mode	Up to 10 weeks ( <i>15 min aggregation period</i> )		
DATA STORAGE & REPORTING			
Recording Sessions	Up to 200		
Storage	8 GB micro SD ( <i>internal</i> ) <i>(Up to 200 recording sessions — enough capacity for extended commissioning studies, seasonal monitoring, or multi-site deployments.)</i>		
Aggregation Intervals	(1 to 60) min, 1 s trends		
Data Interface	USB & Wi-Fi		
Software	DataView® and DataViewSync™		
MECHANICAL & ENVIRONMENTAL			
Mounting	Magnetic		
IP Rating	IP 54		
CAT Rating	600 V CAT IV, 1000 V CAT III		600 V CAT IV, 1000 V CAT IV, 1500 VDC CAT III

Consult factory for NIST Calibration prices.

\* Range depends on selected sensor

Models	L411	L412	L461
1 measurement channel	X	X	X
2 measurement channels		X	
Current: 3000 A <sub>AC</sub> MiniFlex captive sensor	X		
Current: Multiple AC current sensor technology		X	
Voltage 1200 V <sub>AC</sub> and 1700 V <sub>DC</sub> measurement			X
Single-phase electrical distribution system	X	X	X
Single & two-phase electrical distribution system		X	

# Functional Display Control Panel

## BUILT FOR THE FIELD. CONNECTED TO YOUR DESK.

The data loggers' LCD display allows the user to configure and set up a recording with selected parameters for which specific user-defined criteria can be applied. Measurements are recorded and can be accessed for analysis and report generation on a PC utilizing our included FREE DataView® software.



# Versatile Communication Loggers

## Software, Communication, Data Analysis and Reports

### ELIMINATE THE TRUCK ROLL. SERVICE MORE SITES WITH THE SAME CREW.

Retrieve recordings from anywhere through a secure public or private network connection with DataViewSync™. Download recordings, generate client-ready reports, export to Excel, and handle firmware updates. One platform. One learning curve. Across the entire L400 Series.

## DataView®

### Data Analysis and Reporting Software



Real-time data on your PC



Configure all data logger functions and parameters from your PC including selection of current sensor measurement range, network electrical frequency, modification of device access passwords, and more...



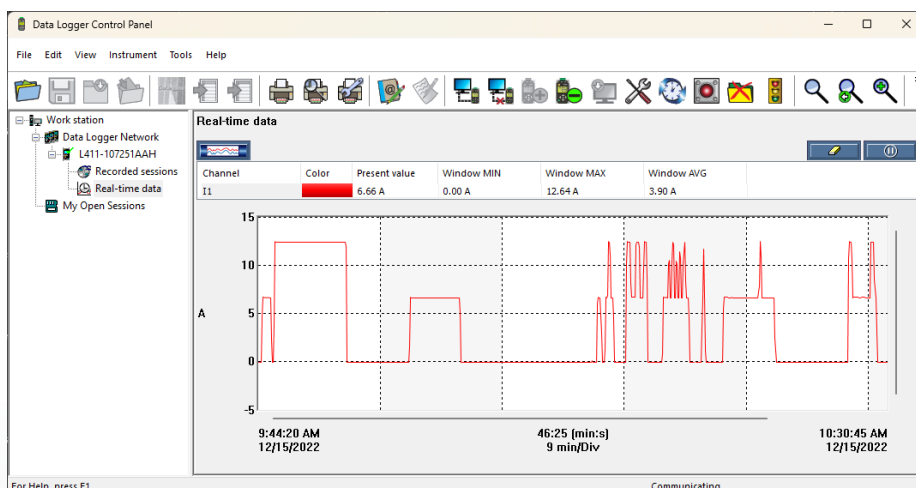
View recordings as graphs or data tables, then export directly to Excel for reporting or deeper analysis — no conversion tools, no middleware.



Print reports using standard or custom templates you design



Free software upgrades are available on our website:  
[www.aemc.com](http://www.aemc.com)



Signal trend, recording representation.

### COMMUNICATION: WIRED. WIRELESS ON-SITE. WIRELESS FROM ANYWHERE.

**Connect at any distance.** The L400 Series of data loggers act as remote sensors for measuring voltage and current.



#### Wired (USB)

Plug in, pull data. The traditional way, still the fastest for bench work and quick downloads.



#### Remote User Access: Wireless on-site (Embedded Web Server)

Open a browser on your phone or tablet, type the logger's IP address, and monitor real-time readings from across the room, sync the clock, and schedule recordings without touching the instrument — no app to install, no software required. Perfect for loggers mounted inside locked panels or hard-to-reach enclosures.

DataViewSync™



#### Wireless from anywhere in the world (DataViewSync™)

Retrieve recordings from a substation across town at your desk. Secure remote access through any router with internet — **one crew, unlimited sites, no truck rolls.**



Technical Assistance (800) 343-1391

L411	Wi-Fi	RMS	INFO	RECORDING	
Recording Status : Inactive					
Session Name : ESSAI 02					
Recording Start : 1/1/2024 1:00:00					
Recording End : 8/10/2024 23:06:01					
Recording Duration : 221:22:6.1 (days:h:min:s)					
Recording Mode : Normal Recording					
SD-Card Status : Space available for pending or active recording					
SD-Card Capacity : 7694 (MBytes)					
SD-Card Free Space : 7690 (MBytes)					
Program recording					

Recording Screen— view information about the current or last recording.



# L400 Series

## Application Use Cases

### L411

Single-channel current logger

*See what standard loggers miss.*

#### 01

##### HERO USE CASE

##### FEEDER LOAD TRENDING

### Catch demand spikes before they cost you.

Monitor feeder load over time to identify peak demand and trend patterns. The 1-second resolution captures short-duration spikes longer-interval loggers miss entirely.

► 1-second sampling · Full trend in DataView®

#### 02

##### ENERGY AUDITING

**Audit a facility without living in it.**

► Up to 10 weeks battery.

#### 03

##### COMMISSIONING

**Verify a circuit in under a minute.**

► Two buttons. Done.

#### 04

##### PREDICTIVE MAINT.

**See motor stress in the trend.**

► Long-term trending.

#### 05

##### SOLAR PV

**See the whole solar story.**

► Pairs with L461.

#### 06

##### REMOTE COLLECTION

**Skip the return trip.**

► AP mode + DataViewSync™.

### L412

Dual-channel current logger

*Two channels. One session. Side-by-side answers.*

#### 01

##### HERO USE CASE

##### DUAL CIRCUIT MONITORING

### Compare two circuits in the same heartbeat.

Monitor two feeders, phases, or branch circuits simultaneously. Identify imbalance, verify load distribution, and spot anomalies in a single recording session.

► Two channels, one timeline

#### 02

##### LOW-LEVEL CONTROL

**Log currents most loggers miss.**

► Down to 10 mA.

#### 03

##### EFFICIENCY STUDIES

**Prove the upgrade paid off.**

► Upstream + downstream.

#### 04

##### MAIN FEEDER LOGGING

**Log the big stuff.**

► Up to 25 kA.

#### 05

##### PREDICTIVE — 2 ASSETS

**Baseline two assets at once.**

► 10 weeks, two channels.

#### 06

##### REMOTE & UNATTENDED

**Two circuits. Zero return trips.**

► DataViewSync™ + AP mode.

# L400 Series

## Application Use Cases (continued)

**L461**

AC/DC voltage logger

AC distribution. DC systems. One voltage logger.

**01****HERO USE CASE****AC**

VOLTAGE QUALITY ANALYSIS

### Document voltage events at 1-second resolution.

Capture sags during motor starts, swells from capacitor switching, and fluctuations tied to specific load cycles. The 1-second trend in DataView® gives you the timeline to correlate events with equipment behavior.

► Catches power quality events other loggers average away

**02 AC**

DISTRIBUTION AUDIT

Document compliance with evidence.

Log AC voltage at panels, branches, or service entrances.

► Down to 10 V.

**03 DC**

SOLAR PV STRINGS

Verify solar from the array up.

Verify string performance at the combiner box.

► Wireless via DataViewSync™.

**04 DC**

BATTERY SYSTEMS

Watch health degrade in slow motion.

Monitor DC bus on banks, UPS, and energy storage.

► Extended mode trending.

**05 AC + DC**

INVERTER I/O

See both sides of the conversion.

DC mode for input, AC mode for output. One instrument.

► Two sessions, full picture.

**06 AC**

REMOTE UTILITY

Leave it. Forget it. Pull data.

Substations, switchgear, service points. Weeks at a time.

► 10 weeks, extended mode.

## NOT SURE WHICH LOGGER FITS YOUR APPLICATION?

Talk to an AEMC® application engineer — we'll match the instrument to the job.












**(800) 343-1391**  
**www.aemc.com**



# Compatibility with Model L412

## Probes & Sensors Selection Chart

L412 COMPATIBLE	Probe/Sensor Type	Nominal Range	Measurement Range	Accuracy	Phase Error (Φ)	Max Conductor	Safety
	<b>SR193-B</b> Catalog #2140.33 AC Current Probe, 10 ft lead	<b>1000 Aac</b>	(1.0 - 50) A	± (1 % R + 2 cts)	± 0.2 °	2.05 in (52 mm)	EN 61010-2-032, 600 V CAT IV, 1000 V CAT III
			(50 - 90) A	± (0.5 % R + 1 ct)			
			(90 - 100) A	± (1 % R + 1 ct)			
			(100 - 1200) A				
	<b>MN94</b> Catalog #2140.81 AC Current Probe	<b>200 Aac</b>	(0.10 to 100) A	± 0.6 % R +1 ct	± 0.1 °	0.25 in (16 mm)	EN 61010-2-032, 300 V CAT IV, 600 V CAT III
			(100 to 240) A	± 0.3 % R +1 ct			
	<b>MN93-BK (200 A)</b> Catalog #2140.32 AC Current Probe, 10 ft lead	<b>200 Aac</b>	(0.5 to 100) A	± (1 % R + 10 cts)	± 0.8 °	0.78 in (20 mm)	EN 61010-2-032, 300 V CAT IV, 600 V CAT III
			(100 to 240) A	± (1 % R + 1 ct)			
	<b>MN193-BK (100 A)</b> Catalog #2140.36 AC Current Probe, 10 ft lead	<b>100 Aac</b>	(0.2 to 9) A	± (1 % R + 2 cts)	± 0.75 °	0.78 in (20 mm)	EN 61010-2-032, 300 V CAT IV, 600 V CAT III
			(9 to 100) A	± 1 % R			
			(100 to 120) A				
		<b>MN193-BK (5 A)</b> Catalog #2140.36 AC Current Probe, 10 ft lead	<b>5 Aac</b> (Ratio-configurable to 25,000 A in DataView®)	(10 to 250) mA	± (1.5 % R + 1 ct)	± 1.7 °	0.78 in (20 mm)
(0.250 to 6) A				± 1 % R			

L412 COMPATIBLE	Probe/Sensor Type	300 Aac mode Range / Accuracy	3000 Aac mode Range / Accuracy	Phase Error (Φ)	Max Conductor	Safety
	<b>AmpFlex® 193-24-BK</b> Catalog #2140.34 24 in Rogowski, 10 ft lead	(0.5 to 100) A <sup>(1)</sup> $\pm (1 \% R + 20 \text{ cts})$	(2 to 100) A <sup>(1)</sup> $\pm (1 \% R + 10 \text{ cts})$	$\pm 0.5^\circ$	7.64 in (190 mm)	EN 61010-2-032, 600 V CAT IV, 1000 V CAT III
	<b>AmpFlex® 193-36-BK</b> Catalog #2140.34 24 in Rogowski, 10 ft lead	(100 to 360) A <sup>(1)</sup> $\pm (1 \% R + 4 \text{ cts})$	(100 to 3600) A <sup>(1)</sup> $\pm (1 \% R + 4 \text{ cts})$		11.46 in (290 mm)	
	<b>MiniFlex® MA193-10-BK</b> Catalog #2140.48 10 in Rogowski, 5 ft lead	(0.5 to 100) A <sup>(1)</sup> $\pm (1 \% R + 20 \text{ cts})$  (100 to 360) A <sup>(1)</sup> $\pm (1 \% R + 4 \text{ cts})$	(2 to 100) A <sup>(1)</sup> $\pm (1 \% R + 10 \text{ cts})$  (100 to 3600) A <sup>(1)</sup> $\pm (1 \% R + 4 \text{ cts})$	$\pm 0.5^\circ$	2.75 in (70 mm)	EN 61010-2-032, 600 V CAT IV, 1000 V CAT III
	<b>MiniFlex® MA193-14-BK</b> Catalog #2140.50 14 in Rogowski, 5 ft lead				3.94 in (100 mm)	
	<b>MiniFlex® MA194-24-BK</b> Catalog #2140.80 24 in Rogowski, 10 ft lead				7.64 in (190 mm)	

<sup>(1)</sup> Flexible sensors are range-selectable on the L412 (300 A range or 3000 A range). Above 3800 A on the 3000 A range, instrument displays OL.

All probes and sensors: For system accuracy calculations, add the probe accuracy to the meter accuracy.

Auto-detection: connect any compatible sensor and the L412 configures itself. If two sensors are connected to L1 and L2, they must be the same model.



# Ordering Information

## PRODUCT INCLUDES

### Data Logger Model L411

(1-CH, TRMS, w/LCD, 3000 A<sub>AC</sub>, DataView® software) ..... Cat. #2153.52

*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.*

### Data Logger Model L412

(2-CH, TRMS, w/LCD, Current, DataView® software) ..... Cat. #2153.53

*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.*

### Data Logger Model L461

(1-CH, TRMS, w/LCD, 1200 V<sub>AC</sub>/1700 V<sub>DC</sub>, DataView® software, voltage input for solar panels) ..... Cat. #2153.54

*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.*

## ACCESSORIES

- ▶ Multifix (Universal Mounting System) ..... Cat. #5000.44
- ▶ Pouch - Replacement for small Meters (8.5 x 6.75 x 2.7) in ..... Cat. #2117.73
- ▶ Soft carrying pouch (7.75 x 9.25 x 2.75) in ..... Cat. #2119.02

*For Model L412:*

- ▶ AC Current Probe Model MN93-BK ..... Cat. #2140.32
- ▶ AC Current Probe Model SR193-BK ..... Cat. #2140.33
- ▶ AC Current Probe Model MN193-BK (5 A & 100 A<sub>AC</sub>) ..... Cat. #2140.36
- ▶ AmpFlex® Sensor Model 193-24-BK ..... Cat. #2140.34
- ▶ AmpFlex® Sensor Model 193-36-BK ..... Cat. #2140.35
- ▶ MiniFlex® Model MA 193-10-BK ..... Cat. #2140.48
- ▶ MiniFlex® Model MA 193-14-BK ..... Cat. #2140.50
- ▶ MiniFlex® Model MA 193-24-BK ..... Cat. #2140.80
- ▶ AC Current Probe Model MN94 ..... Cat. #2140.81

*For Model L461:*

- ▶ Adapter - 110 V Outlet w/ 4 mm banana plugs ..... Cat. #2118.49

## REPLACEMENT PARTS

- ▶ Cable - 6 ft USB Type A-Type B Micro ..... Cat. #2138.66
- ▶ Adapter - US wall plug to USB ..... Cat. #2153.78
- ▶ Clip - Safety Alligator-Black (1500 V CAT III or 1000 V CAT IV) ..... Cat. #5000.99
- ▶ Clip - Safety Alligator-Red (1000 V CAT IV, 15 A, UL V2) ..... Cat. #5100.00
- ▶ Lead - Set of 2, 10 ft (3 m) color-coded (red/black) ST/ST banana plug ..... Cat. #5100.29



## Family of Products

### UNITED STATES & CANADA

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# Measure Up

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To learn more, visit [www.aemc.com](http://www.aemc.com)

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