

# DATA LOGGERS

Two-Channel DC Voltage, Current, Pulse & Event

## Model L452

**Bluetooth-enabled logger and event counter that records DC voltage, DC current, 4 to 20mA or pulse counts**

**Real-time display!**

**Powered by batteries or through a USB cable**



### ► SPECIFICATIONS



MODEL	L452			
<b>ELECTRICAL</b>				
Channels	Two*			
Input	Six-pin terminal strip			
Measurements	<b>DC Current</b>	<b>DC Voltage</b>	<b>Event</b>	<b>Pulse</b>
Range	4 to 20mA	100mV, 1V, 10V	N/A	N/A
Accuracy (% of Reading)	±(0.25% + 5cts)	±(0.5% + 1ct)	N/A	N/A
Resolution	0.01mA	0.1mV, 1mV, 10mV	N/A	N/A
Input Impedance	100Ω	1MΩ	1MΩ	N/A
Sample Rate	5 samples/s	5 samples/s	16 samples/s	100 samples/s
Sample Period	DC inputs: 200, 400, 600, or 800ms; or from 1 to 60 seconds Pulse detection: 10ms			
Storage Modes	Start/Stop (ends when memory is full or when the recording stop time is reached, whichever comes first)			
Recording Length	10 minutes to 1 year, set via instrument front panel or through DataView®			
Memory	32MB internal Flash memory (up to 1024 logging sessions, 16M samples)			
Communication	Bluetooth 2.1, Class 1 or USB 2.0			
Power Source	External: via USB connector Internal: 2 x AA NIMH rechargeable batteries (charges through USB port)			
Battery Life	Up to 180 days (dependent on storage rate/recording length)			
<b>MECHANICAL</b>				
Dimensions	1.275 x 2.578 x 5.413" (32.4 x 65.5 x 137.5mm)			
Weight (with battery)	6.7oz (190g) with batteries			
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)			
Shock	IEC 68-2-27 (30G)			
<b>ENVIRONMENTAL</b>				
Operating Temperature	32° to 122°F (0° to 50°C)			
Humidity	16 to 85%			
Protection	IP40 (instrument alone); IP20 (instrument with terminal strip)			

\*Both channels must have the same input type.

### ► PRODUCT INCLUDES

6ft USB cable, US 120V wall-to-USB plug, 6-pin screw terminal block, 2 x AA rechargeable NIMH batteries, quick start guide, and a USB drive containing DataView® software and a user manual.



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# Model L452

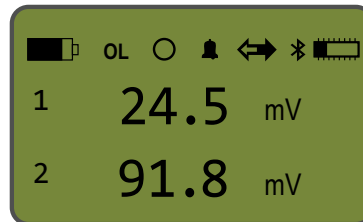
## Front Panel & Functional Displays

### ► FEATURES

- Multiple data input types.**  
 The L452 can log DC voltage, DC current, 4 to 20mA pulse counts, or events. Measurements can be performed directly on the instrument, or through a variety of sensors. This data is stored in the instrument's large 32MB internal Flash memory.
- Expanded user interface.**  
 You can set up the instrument and view real-time measurement data through the front panel LCD screen and input buttons. The L452 features an on-board menu-based interface for navigating measurement data and selecting configuration options.
- Enhanced DataView® support.**  
 The instrument connects to a PC using either *Bluetooth* or USB. Once connected, logged data can be downloaded, analyzed, and formatted into reports using DataView's new Data Logger Control Panel. This Control Panel also enables users to change settings on the instrument, view real-time measurements, schedule recording sessions, and perform other configuration tasks.

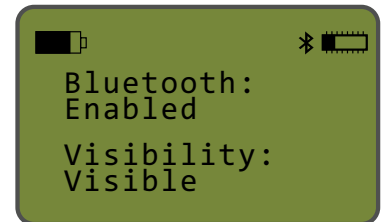


### Instrument Configuration



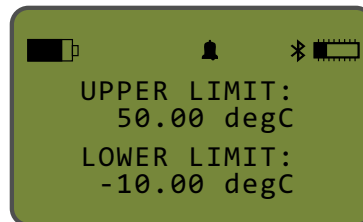
*Instrument configuration parameters can be set through the front panel interface.*

### Bluetooth Enabled/Visibility



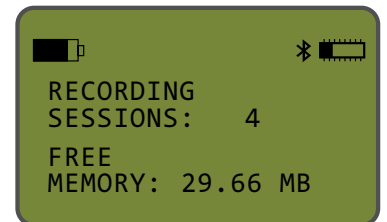
*Enable and configure Bluetooth's functionality.*

### Alarm Triggers



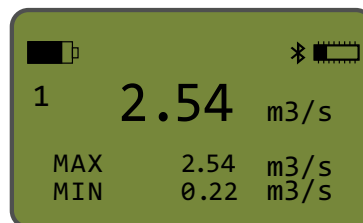
*Allows you to set the upper and/or lower alarm trigger limits.*

### Recording Session



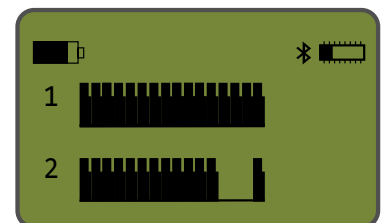
*Displays the number of recording sessions currently stored in memory. It also shows the amount of free memory left for storing additional recording sessions.*

### Min/Max Measurements



*For analog input types, this screen displays the session's MIN/MAX measurement values for each channel.*

### Event Measurement Data



*For event input, the Channels 1 & 2 measurement graphic data screen appears.*

CATALOG NO.	DESCRIPTION
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2153.51	Data Logger Model L452 (2-Channel, w/LCD, 100mV/1V/10Vdc, 4 to 20mA, Event & Pulse, DataView® software)
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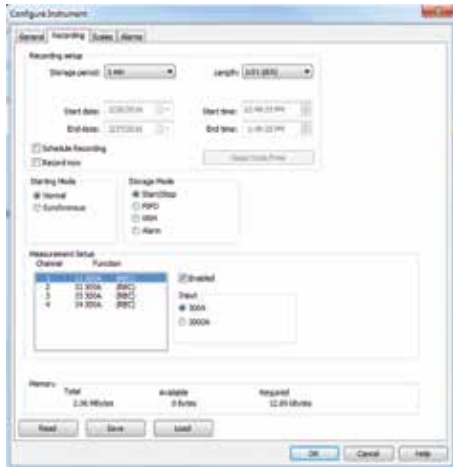




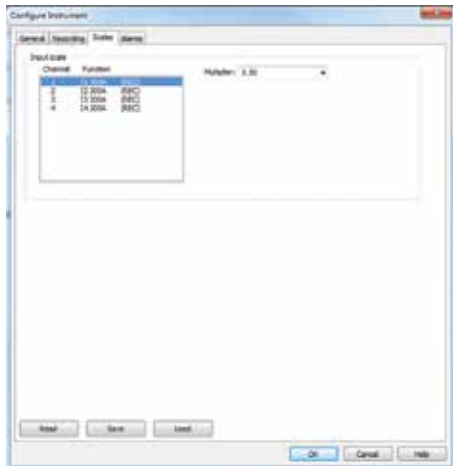
# DataView®

## Data Analysis and Reporting Software

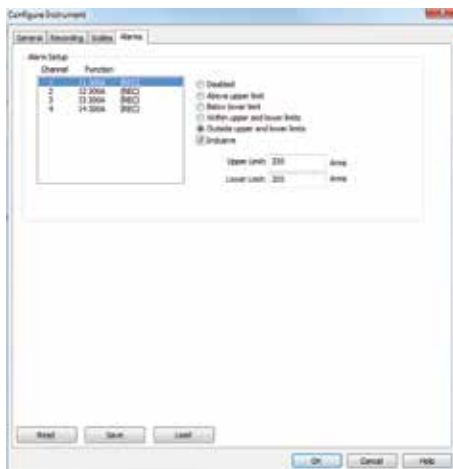
### Typical DataView® Functional Displays



Quick and simple configuration of all functions and settings from one dialog box.



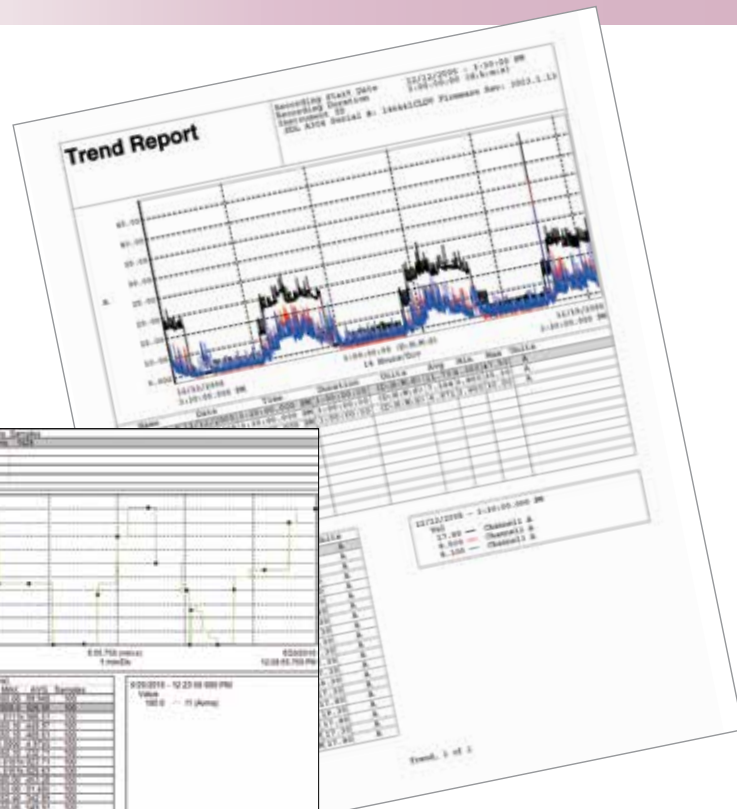
Configure scale functions.



Configure all alarm functions with straightforward selections.

### Configure all data logger functions

- Display and analyze real-time data on your PC
- Configure all data logger functions and parameters from your PC including sample rate, recording length, channel configuration and more
- Create and store a complete library of configurations that can be uploaded to the logger 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, harmonics (AC models) and text summaries
- Create custom views and reports
- Print reports using standard or custom templates you design
- Free software upgrades are available on our website [www.aemc.com](http://www.aemc.com)



Real-time display of all active inputs on computer through DataView® software.

# DATA LOGGERS

## Probe Selection Chart

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	PROBE OUTPUT	PROBE RANGE	MAX RANGE FOR SLII	CABLE DIAMETER	BUS BAR SIZE	OUTPUT CONNECTION	USED WITH LOGGER MODEL	NOTES
MN261	2115.82	100mV/AAC 10mV/AAC	0.1 to 24AAC 0.5 to 240AAC	10AAC 100AAC	0.78" (19.8mm)	N/A	Lead w/BNC	L101 L102 L562	—
JM830A	2110.83	0.333mA/AAC	1 to 2400A	2400A	2.52" (64mm)	1.97 x 5.31" (50 x 134.87mm)	Lead	L111	—
JM861	2110.90	10mV/AAC 1mV/AAC 0.1mV/AAC	1 to 30AAC 1 to 300AAC 1 to 3000AAC	30AAC 300AAC 3000AAC	2.52" (64mm)	1.97 x 5.31" (50 x 134.87mm)	Lead w/BNC	L101 L102 L562	—
MF 300-6-2-10	2126.81	100mV/AAC 10mV/AAC	30AAC 300AAC	10AAC 100AAC	1.77" (44.96mm)	2.25 x 0.75" (57.15 x 19.05mm)	Sensor w/BNC	L101 L102 L562	—
300-24-2-1	2112.88	100mV/AAC 10mV/AAC	5 to 30A 5 to 300A	10A 100A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
1000-24-1-1	2112.39	1mV/AAC	5 to 1000A	1000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
1000-24-2-1	2112.98	10mVAC 1mV/AAC	5 to 100A 5 to 1000A	100A 1000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
1000-36-2-1	2113.00	10mVAC 1mV/AAC	5 to 100A 5 to 1000A	100A 1000A	11" (279.4mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
3000-24-2-0.3	2114.87	3.3mV/AAC 0.3mV/AAC	5 to 300A 5 to 3000A	300A 3000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
6000-36-2-0.1	2113.21	1mV/AAC 0.1mV/AAC	5 to 600A 5 to 6000A	600A 6000A	11" (279.4mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
30000-24-2-0.1	2113.33	1mV/AAC 0.1mV/AAC	5 to 3000A 5 to 30,000A	1000A 10,000A	8" (203.2mm)	N/A	Sensor w/Banana Plugs	L101 L102 L562	Must use adapter # 2118.46
MN01	2129.17	1mA/AAC	2 to 150A	150A	0.39" (9.9mm)	N/A	Lead	L111	—
MN02	2129.20	1mA/AAC	50mA to 100A (1Ω) 50mA to 90A (10Ω)	100AAC	0.39" (9.9mm)	N/A	Lead	L111	—
MN03	2129.18	1mV/AAC	2 to 100AAC	100AAC	0.47" (11.94mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN93-BK	2140.32	5mV/AAC	2 to 240AAC	200AAC	0.8" (20.32mm)	N/A	Proprietary	L104 L564	—
MN193-BK	2140.36	200mV/AAC 10mV/AAC	5 to 100AAC	5A 100A	0.8" (20.32mm)	N/A	Proprietary	L104 L564	—
MN251	2115.77	1mV/AAC	0.5 to 240A	240AAC	0.78" (19.81mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN255	2115.81	100mV/AAC 10mV/AAC	0.1 to 24AAC 0.1 to 240AAC	10AAC 100AAC	0.78" (19.81mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	PROBE OUTPUT	PROBE RANGE	MAX RANGE FOR SLII	CABLE DIAMETER	BUS BAR SIZE	OUTPUT CONNECTION	USED WITH LOGGER MODEL	NOTES
MN313	2116.25	1mA/Aac	0.1 to 200A	200Aac	0.78" (19.8mm)	0.79 x 0.2" (20.06 x 5.08mm)	Lead	L111	—
MN353	2116.27	10mV/Aac	0.1 to 150A	100Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN373	2116.28	1000mV/Aac 10mV/Aac	0.01 to 2.4Aac 0.1 to 200Aac	1Aac 100Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN375	2115.41	100mV/Aac	0.1 to 10A	10Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
MN379	2153.01	200mV/Aac 10mV/Aac	5Aac 100Aac	5Aac 100Aac	0.78" (19.8mm)	N/A	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
SR193-BK	2140.33	1mV/Aac	1 to 1200A	1000Aac	2" (50.8mm)	N/A	Proprietary	L104 L564	—
SR604	2113.44	1mA/Aac	0.1 to 1000A	1000Aac	2.05" (52.07mm)	N/A	Lead	L111	—
SR661	2113.49	1mV/Aac 10mV/Aac 100mV/Aac	1000Aac 100Aac 10Aac	1000Aac 100Aac 10Aac	2.13" (54.1mm)	N/A	BNC	L101 L102 L562	—
SR752	2116.32	1mV/Aac	100mA to 1000A	1000Aac	2.05" (52.07mm)	1.96 x 0.19" (49.78 x 4.83mm)	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46
SR759	2116.33	1000mV/Aac 100mV/Aac 10mV/Aac 1mV/Aac	1mA to 1Aac 10mA to 10Aac 0.1 to 100Aac 1 to 1000Aac	1Aac 10Aac 100Aac 1000Aac	2.05" (52.07mm)	1.96 x 0.19" (49.78 x 4.83mm)	Lead w/Banana Plug	L101 L102 L562	Must use adapter # 2118.46



**Banana (female) BNC (male) (XM-BB)**

**Catalog #2118.46**  
(optional for AmpFlex® & FlexProbe® Flexible Current Probes)

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