

AC Current Simple Logger® Models L100 & L110



Specifications

ELECTRICAL

Number of Channels: 1

Measurement Range: 0 to 10,000Arms
(requires optional current probe)

Input:

0 to 1Vrms (L100)

0 to 1Arms (L110)

Input Connection:

Recessed Safety 4mm Banana Jacks

Resolution: 8 Bit

(Max Resolution depends on Probe)

Accuracy*: $\pm 1\%$ of Reading + Resolution
+ probe accuracy
(see inside back cover for details)

Sample Rate: 4096/hr max, decreases
by 50% each time memory is full

Storage Technique:

Time Extension Recording™ (TXR™)

Data Storage: 8192 readings

Power: 9V Alkaline battery

Battery Life:

Up to 1 yr of recording @ 25°C

Output: RS-232 via DB-9 connector

Indicators: Red LED double flashes in
LOGGING, single flashes in STANDBY,
and is off in OFF mode

Controls: One button used to start and
stop recording sessions and to turn the
data logger on and off

MECHANICAL

Size: 2 7/8 x 2 5/16 x 1 5/8"

(73 x 59 x 41mm)

Weight: (with battery) 5 oz (140g)

Mounting: Base plate mounting holes or
Velcro® pads

ENVIRONMENTAL

Operating Temperature:

-4 to +158°F (-20 to +70°C)

Storage Temperature:

-4 to +174°F (-20 to +80°C)

Relative Humidity:

5 to 95% non-condensing

Note: See pages 17 and 18 for compatible
AEMC current probes.

Features

- Supports wide range of current probes with voltage or current outputs*
- Two input types to choose from:
 - Model L100
Use current probes with VAC output
0 to 1Vrms input
0 to 10,000Arms based on probe
 - Model L110
Use current probe with output
0 to 1Arms input
0 to 3,000Arms based on probe
- True RMS measurements
- Inputs via color coded safety Banana Jacks
- Select scale via software to match probe
- Wide variety of optional current probes available

Applications

- Machine load monitoring
- Metering CT re-sizing
- Load profiling
- Fault finding

ORDERING INFORMATION

CATALOG NO.

Simple Logger® Model L100, RMS Current (0 to 1VAC Input) Cat. #2113.50

Simple Logger® Model L110, RMS Current (0 to 1AAC Input) Cat. #2113.85

All AC Current Simple Loggers® are supplied with software (CD-ROM), 6 ft DB-9 RS-232 cable, 9V Alkaline battery and user manual

Accessories

See pages 17 and 18 for compatible AEMC current probes

Simple Logger® Software

Features

- Very easy to setup and use — no programming required
- Statistics appear on screen: Max, Min, Avg, Date and Time
- On-Line display of data logger values
- Zoom capability with automatic statistics update
- User keyed text annotations
- Automatically displays values at the cursor position
- Export data to spreadsheet and database software
- Print both graphs and tabular listings
- Paste graphs into other applications
- Programmable scale and units for all DC loggers. Automatic selection for AC loggers
- Automatic baud rate selection (version 6.0 or later)

Computer Requirements

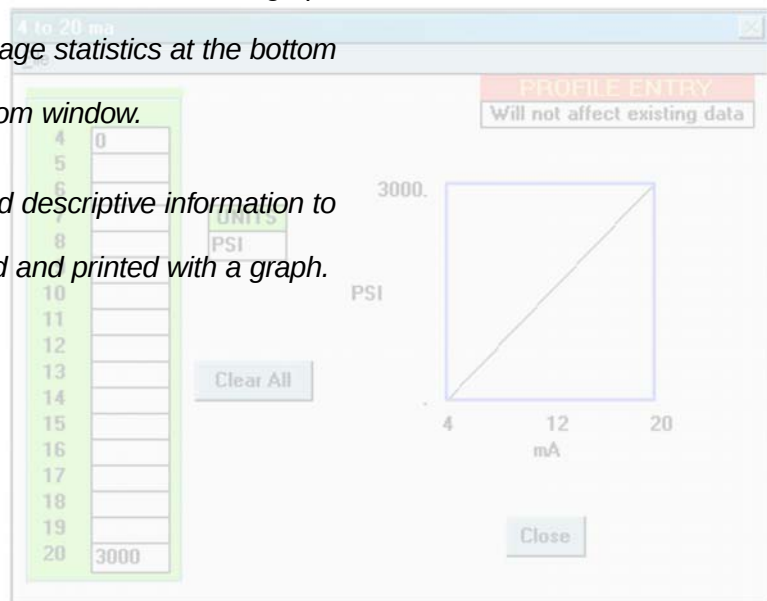
- 486 or higher
- 8MB of RAM
- Windows®95/98/2000/ME/XP or Windows®NT
- 1 serial port not in use by any other device
- 8MB hard drive space for program and 400kB max per file stored

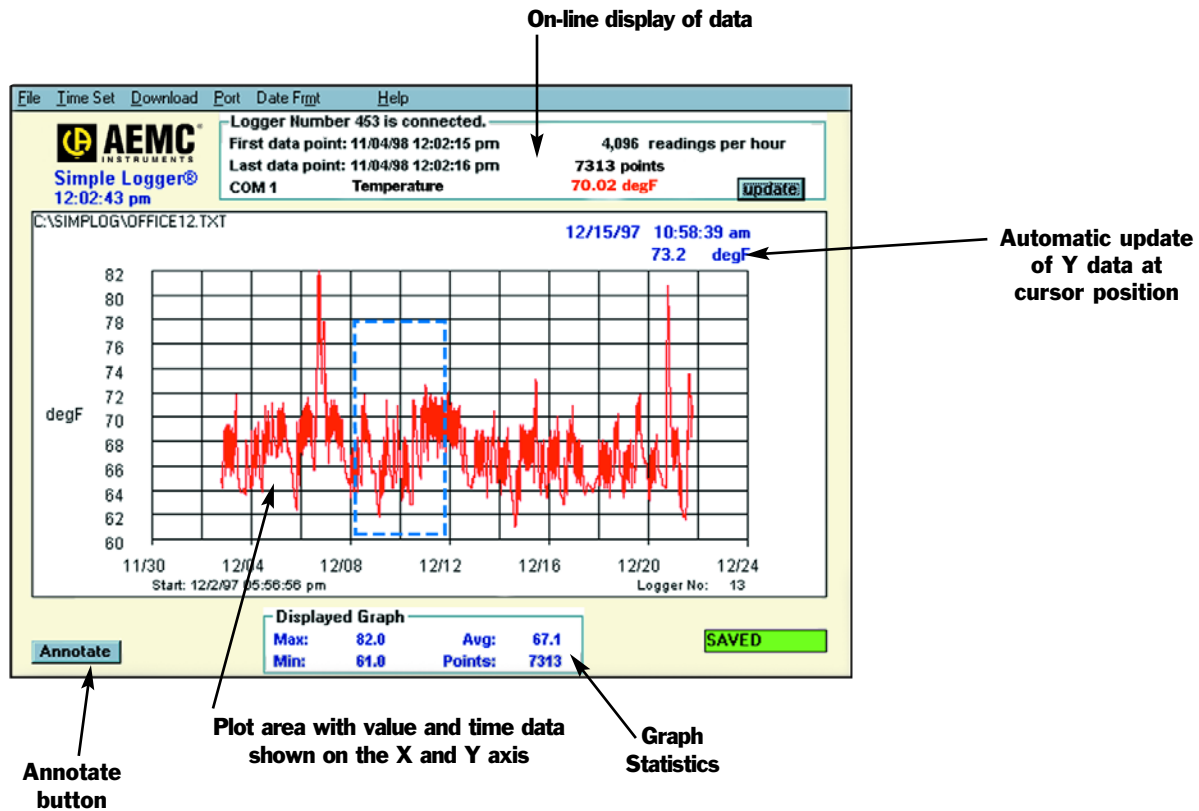


Plot graphs and view statistics quickly and easily when you download data from Simple Logger® to your computer. Scale and time axis update automatically.

Click and drag your mouse to zoom up the desired area of the graph for better viewing. The Min, Max and Average statistics at the bottom of the graph update automatically with zoom window.

Click the Annotate button to add a title and descriptive information to your graph. This information can be stored and printed with a graph.





Graph Description

Graph Title:

Graph Description:

Information which will be stored with the graph file

Tag: Location:

The form is overlaid on a zoomed-in view of the graph. The zoomed-in graph shows a temperature fluctuation between approximately 62 and 68 degF over a period from 12/08 to 12/12. The Y-axis ranges from 60 to 68 degF. The X-axis shows dates from 12/08 to 12/12. Below the zoomed-in graph, a "Displayed Graph" box shows statistics: Max: 82.0, Min: 61.0, Avg: 67.3, and Points: 7313. An "Unzoom" button is located at the bottom left of the zoomed-in graph area. An "Annotate" button is located at the bottom left of the main graph area.

Click the Annotate button to add a title and descriptive information to your graph. This information can be stored and printed with a graph.

Accessories



Split Core AC & DC Current Probes

AEMC® Instruments Current Probe & Simple Logger® Match Up

Series	Probe Model	Ratio	Measurement Range		Output Signal		Output Connection	Catalog No.	Logger Model
			AC	DC	Current	Voltage			
 ø = 0.78"	MN211	1000:1	0.5A to 240A		1mAac/Aac		Lead	2115.73	L110
	MN213	1000:1	0.5A to 240A		1mAac/Aac		Lead	2115.75	L110
	MN251		0.1A to 240A			1mVac/Aac	Lead	2115.77	L100
	MD301		2A to 500A			1mVdc/Aac	Lead	1201.07	L430
	MD303	1000:1	4A to 500A		1mAac/Aac		Lead	1201.21	L110
	MD305	1000:1	1A to 600A		1mAac/Aac		Lead	1201.36	L110
	MD314		4A to 500A			1mVac/Aac	Lead	2110.75	L100
 ø = 1.18"	MR410*		1A to 400A	1A to 600A		1mV/Aac 1mV/Adc	Lead Lead	1200.70 1200.70	L100 (AC) L430 (DC)
	MR411*		0.2A to 40A 0.5A to 400A	0.5A to 600A 0.4A to 60A 0.5A to 600A		10mV/Aac 1mV/Aac 10mV/Adc 1mV/Adc	Lead	1200.68	L100 (AC) L430 (DC)
	MR520*		1A to 1000A	1A to 1500A		1mV/Aac/dc 1mV/Aac/dc	Lead	1200.71	L100 (AC) L430 (DC)
	MR521*		0.2A to 1000A 0.5A to 1000A 0.2A to 100A 0.5A to 1000A	0.4A to 150A 0.5A to 1500A 0.4A to 1500A 0.5A to 1500A		10m V/Aac 1mV/Aac 10mV/Adc 1mV/Adc	Lead	1200.69	L100 (AC) L430 (DC)
 ø = 2.05"	SR604	1000:1	0.1A to 1000A		1mAac/Aac		Lead	2113.44	L110
	SR652		0.1A to 1000A			1mVac/Aac	Lead	2113.46	L100
	SR704	1000:1	1mA to 1000A		1mAac/Aac		Lead	2116.30	L110
	SR752		0.1A to 1000A			1mVac/Aac	Lead	2116.32	L100
 ø = 2.52"	JM800A	1000:1	1A to 1000A		1mAac/A		Lead	2110.79	L110
	JM830A	3000:1	1A to 3000A		0.33mAac/A		Lead	2110.83	L110
	JM850A	1000:1 2000:1 3000:1	1A to 1000A 1A to 2000A 1A to 3000		1mAac/Aac .5mAac/Aac .33mAac/Aac		Jack Jack Jack	2110.87	L110

*Caution: Do not use DC loggers with AC probes or AC loggers with DC probes



2114.26
Simple Logger® Software
Upgrade for all models
(Receive software upgrade
notices when warranty
registration is on file)



2111.31
Safety Grip Probes,
set of 2

Flexible Probes for use with Simple Logger® Model L100

AEMC® Instruments Flexible Probe & Simple Logger® Compatibility

24" Flexible Probes

Catalog No.	Probe Model	Range	Ratio	Logger Model
2112.20	200-24-1-1	200A	1mV/A	L100
2112.24	300-24-1-1	300A	1mV/A	L100
2112.34	500-24-1-1	500A	1mV/A	L100
2112.39	1000-24-1-1	1000A	1mV/A	L100
2112.62	6000-24-1-0.1	6000A	0.1mV/A	L100
2112.70	10000-24-1-0.1	10,000A	0.1mV/A	L100
2112.93	500-24-2-1	50/500A	10mV/1mV/A	L100
2112.98	1000-24-2-1	100/1000A	10mV/1mV/A	L100
2113.19	6000-24-2-0.1	600/6000A	1mV/0.1mV/A	L100
2113.27	10000-24-2-0.1	1,000/10,000A	1mV/0.1mV/A	L100
2114.87	3000-24-2-0.3	300/3000A	0.3mV/3.3mV/A	L100

36" Flexible Probes

Catalog No.	Probe Model	Range	Ratio	Logger Model
2112.02	10000-36-2-0.1	1000/10,000A	1mV/0.1mV/A	L100
2112.41	1000-36-1-1	1000A	1mV/A	L100
2112.64	6000-36-1-0.1	6000A	0.1mV/A	L100
2112.72	10000-36-1-0.1	10,000A	0.1mV/A	L100
2113.00	1000-36-2-1	100/1000A	10mV/1mV/A	L100
2113.21	6000-36-2-0.1	600/6000A	1mV/0.1mV/A	L100
2114.88	3000-36-2-0.3	300/3000A	0.3mV/3.3mV/A	L100



AEMC® Instruments Flexible Probe & Simple Logger® Compatibility

48" Flexible Probes

Catalog No.	Probe Model	Range	Ratio	Logger Model
2112.03	10000-48-2-0.1	1000/10,000A	1mV/0.1mV/A	L100
2112.42	1000-48-1-1	1000A	1mV/A	L100
2112.65	6000-48-1-0.1	6000A	0.1mV/A	L100
2112.73	10000-48-1-0.1	10,000A	0.1mV/A	L100
2113.01	1000-48-2-0.1	100/1000A	10mV/1mV/A	L100
2113.22	6000-48-2-0.1	600/6000A	1mV/0.1mV/A	L100

60" Flexible Probes

Catalog No.	Probe Model	Range	Ratio	Logger Model
2112.74	10000-60-1-0.1	10,000A	0.1mV/A	L100
2113.29	10000-60-2-0.1	1000/10,000A	1mV/0.1mV/A	L100

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