DC Current Simple Logger®
Model L320 (4 to 20mA)

Specifications

ELECTRICAL

Number of Channels: 1

Measurement Range: 0 to 25mADC

Input Connection: Two post screw terminal strip

Input Impedance: 100Ω

Resolution: 8 Bit (12.5µA max)

Accuracy*: ±1% of Reading + Resolution (see inside back cover for details)

Sample Rate: 4096/hr maximum

Storage Technique:
Time Extension Recording™ (TXR™)

Data Storage: 8192 readings

Power: 9V Alkaline battery

Battery Life:
Up to 1 year of recording @ 25°C

Output: RS-232
9 pin via DB-9 connector

Indicators: Red LED flashes once every 2 seconds in STANDBY mode, twice every 2 seconds in LOGGING mode, 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

Working Voltage: 48VDC

MECHANICAL

Size: $2\frac{7}{8}$ x $2\frac{5}{16}$ x $1\frac{5}{8}$"
(73 x 59 x 41mm)

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

Mounting: Base plate mounting holes or Velcro® pads supplied loose

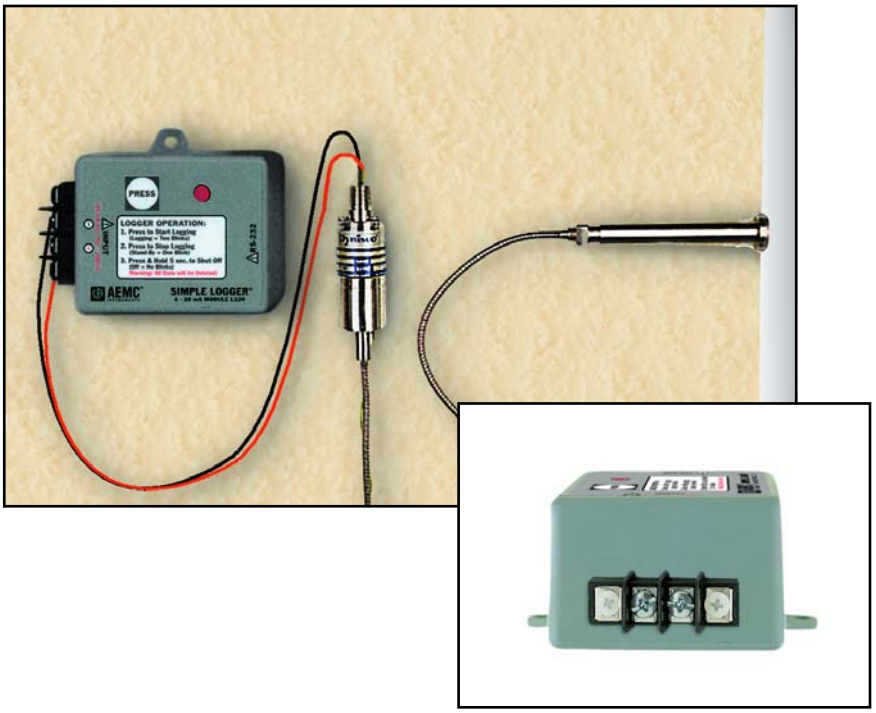
ENVIRONMENTAL

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

Safety: EN 61010, 30V Cat. III



Features

- Auto-Ranging
- Programmable scales
- Programmable units
- RS-232 output
- Simple one button operation
- Standard terminal strip input
- Self adjusting sample rate
- Compact size fits anywhere
- Low loop impedance

Applications

- Process control monitoring and troubleshooting
- Profile temperature, pressure, flow and other parameters directly
- General purpose DC current monitoring

ORDERING INFORMATION — CATALOG NO.

Simple Logger® Model L320, DC Current (4 to 20mA Input) . . . . . **Cat. #2113.97**
Includes software (CD-ROM), 6 ft DB-9 RS-232 cable, 9V Alkaline battery and user manual

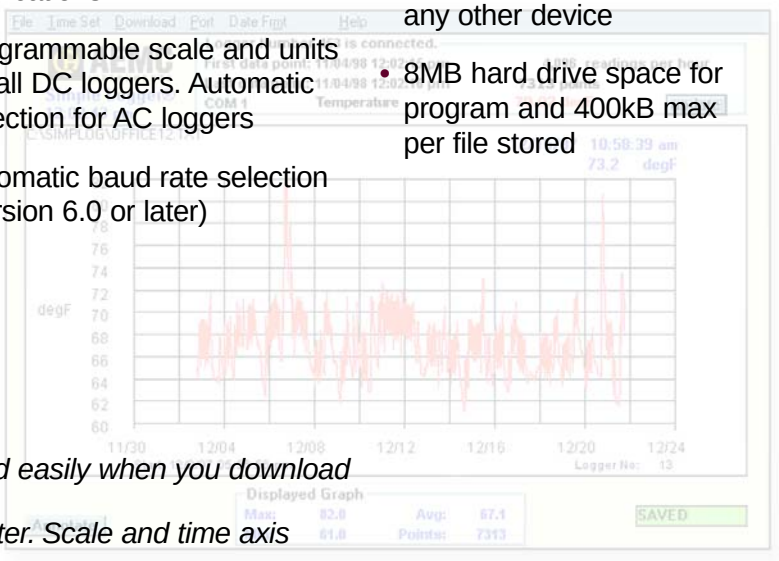
Simple Logger® Software

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

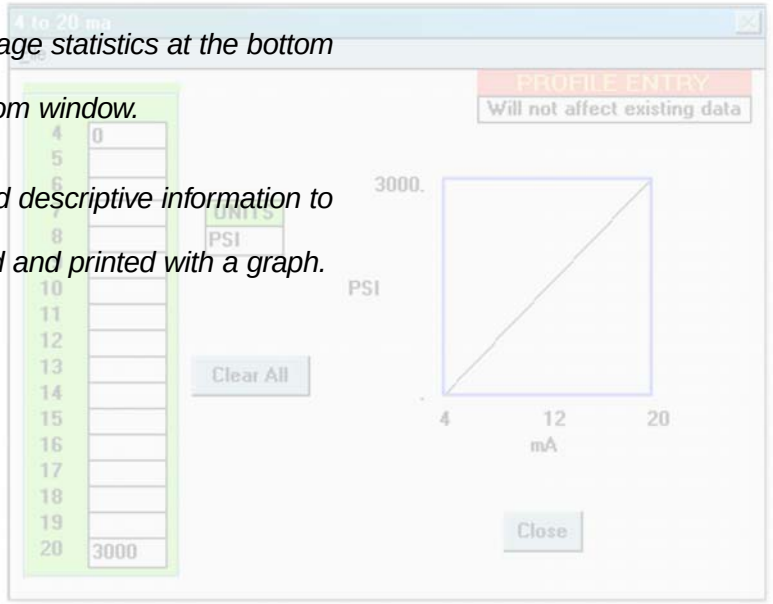
- 486 or higher
- 8MB of RAM
- Windows®95/98/2000/ME/XP or Windows®NT
- 1 serial port not in use by any other device
- 8MB hard drive space for program and 400kB max per file stored

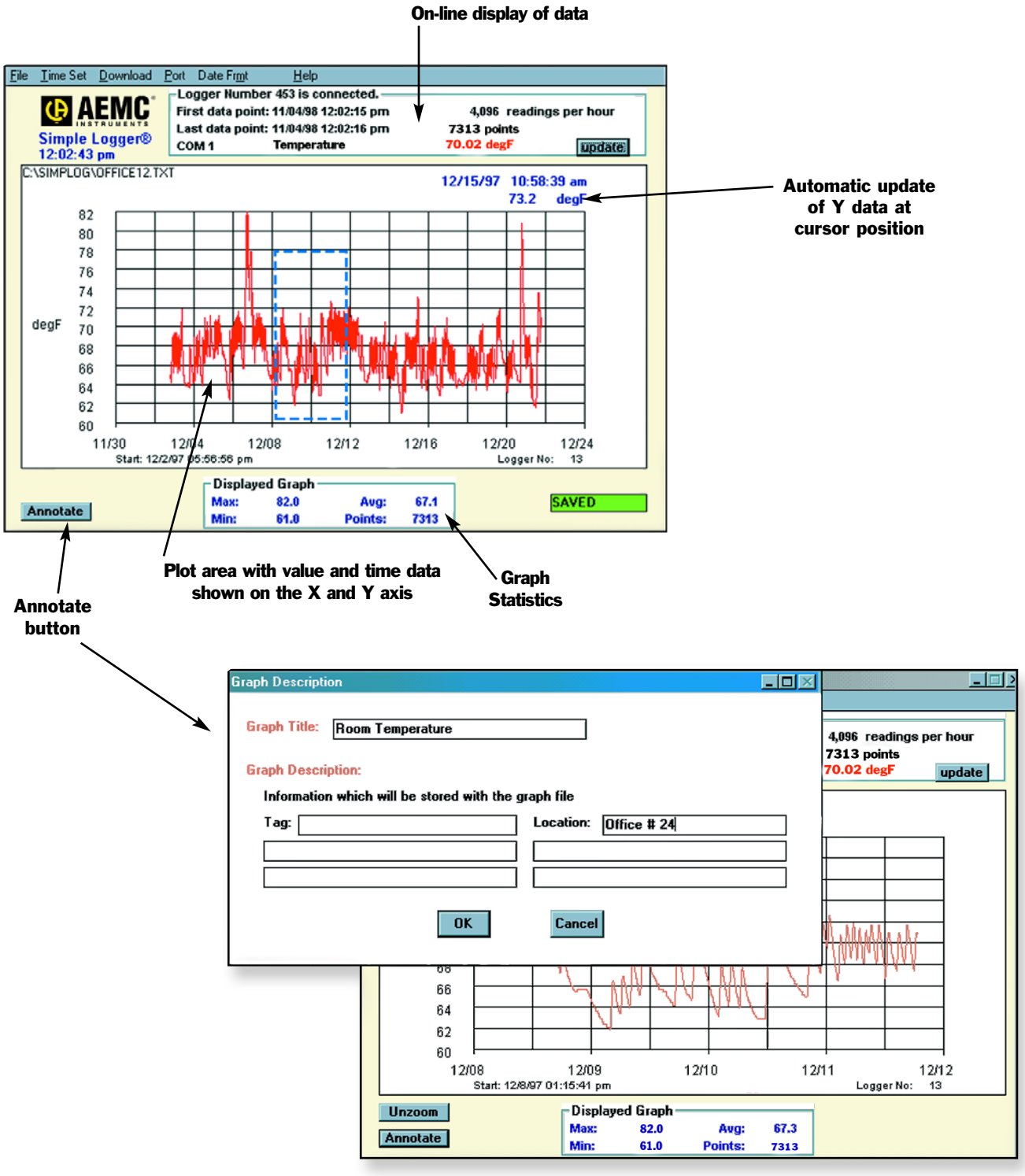


Plot graphs and view statistics quickly and easily when you download data from Simple Logger® to your computer. Scale and time axis update automatically.

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.





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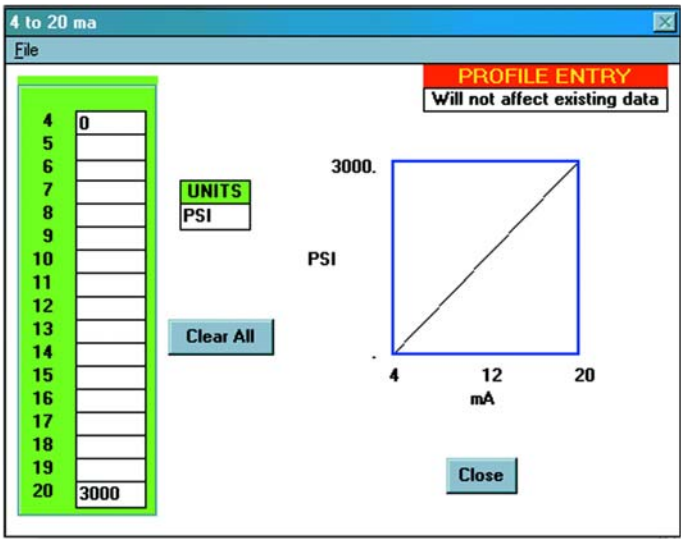
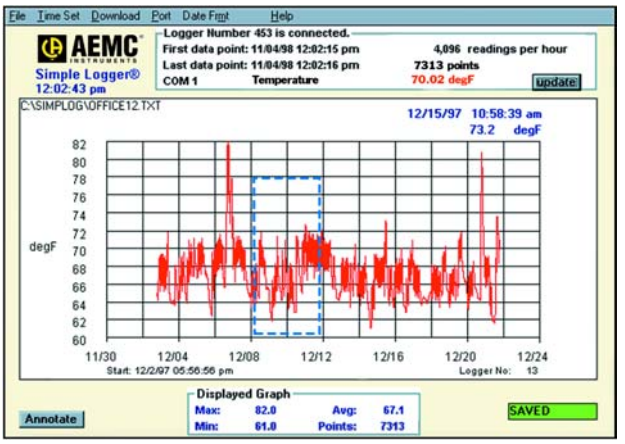
Simple Logger® Software



Click the scale button in the file menu to create custom scales and engineering units for DC voltage (Models L410 & L430) and DC current loggers (Model L320).



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 when the graph is zoomed.

Accessories

Split Core AC & DC Current Probes

AEMC® Instruments Current Probe & Simple Logger® Match Up

Series	Probe Model	Ratio	Measurement Range AC	Measurement Range DC	Output Signal Current	Output Signal Voltage	Output Connection	Catalog No.	Logger Model
ø = 0.78"	MN211	1000:1	0.5A to 240A		1mA$_{AC}$/A$_{AC}$		Lead	2115.73	L110
	MN213	1000:1	0.5A to 240A		1mA$_{AC}$/A$_{AC}$		Lead	2115.75	L110
	MN251		0.1A to 240A			1mV$_{AC}$/A$_{AC}$	Lead	2115.77	L100
	MD301		2A to 500A			1mV$_{DC}$/A$_{AC}$	Lead	1201.07	L430
	MD303	1000:1	4A to 500A		1mA$_{AC}$/A$_{AC}$		Lead	1201.21	L110
	MD305	1000:1	1A to 600A		1mA$_{AC}$/A$_{AC}$		Lead	1201.36	L110
	MD314		4A to 500A			1mV$_{AC}$/A$_{AC}$	Lead	2110.75	L100
ø = 1.18"	MR410*		1A to 400A	1A to 600A		1mV/A$_{AC}$ 1mV/A$_{DC}$	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/A$_{AC}$ 1mV/A$_{AC}$ 10mV/A$_{DC}$ 1mV/A$_{DC}$	Lead Lead	1200.68 1200.68	L100 (AC) L430 (DC)
ø = 1.6"	MR520*		1A to 1000A	1A to 1500A		1mV/A$_{AC/DC}$ 1mV/A$_{AC/DC}$	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/A$_{AC}$ 1mV/A$_{AC}$ 10mV/A$_{DC}$ 1mV/A$_{DC}$	Lead Lead	1200.69 1200.69	L100 (AC) L430 (DC)
ø = 2.05"	SR604	1000:1	0.1A to 1000A		1mA$_{AC}$/A$_{AC}$		Lead	2113.44	L110
	SR652		0.1A to 1000A			1mV$_{AC}$/A$_{AC}$	Lead	2113.46	L100
	SR704	1000:1	1mA to 1000A		1mA$_{AC}$/A$_{AC}$		Lead	2116.30	L110
	SR752		0.1A to 1000A			1mV$_{AC}$/A$_{AC}$	Lead	2116.32	L100
ø = 2.52"	JM800A	1000:1	1A to 1000A		1mA$_{AC}$/A		Lead	2110.79	L110
	JM830A	3000:1	1A to 3000A		0.33mA$_{AC}$/A		Lead	2110.83	L110
	JM850A	1000:1 2000:1 3000:1	1A to 1000A 1A to 2000A 1A to 3000		1mA$_{AC}$/A$_{AC}$ .5mA$_{AC}$/A$_{AC}$ .33mA$_{AC}$/A$_{AC}$		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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