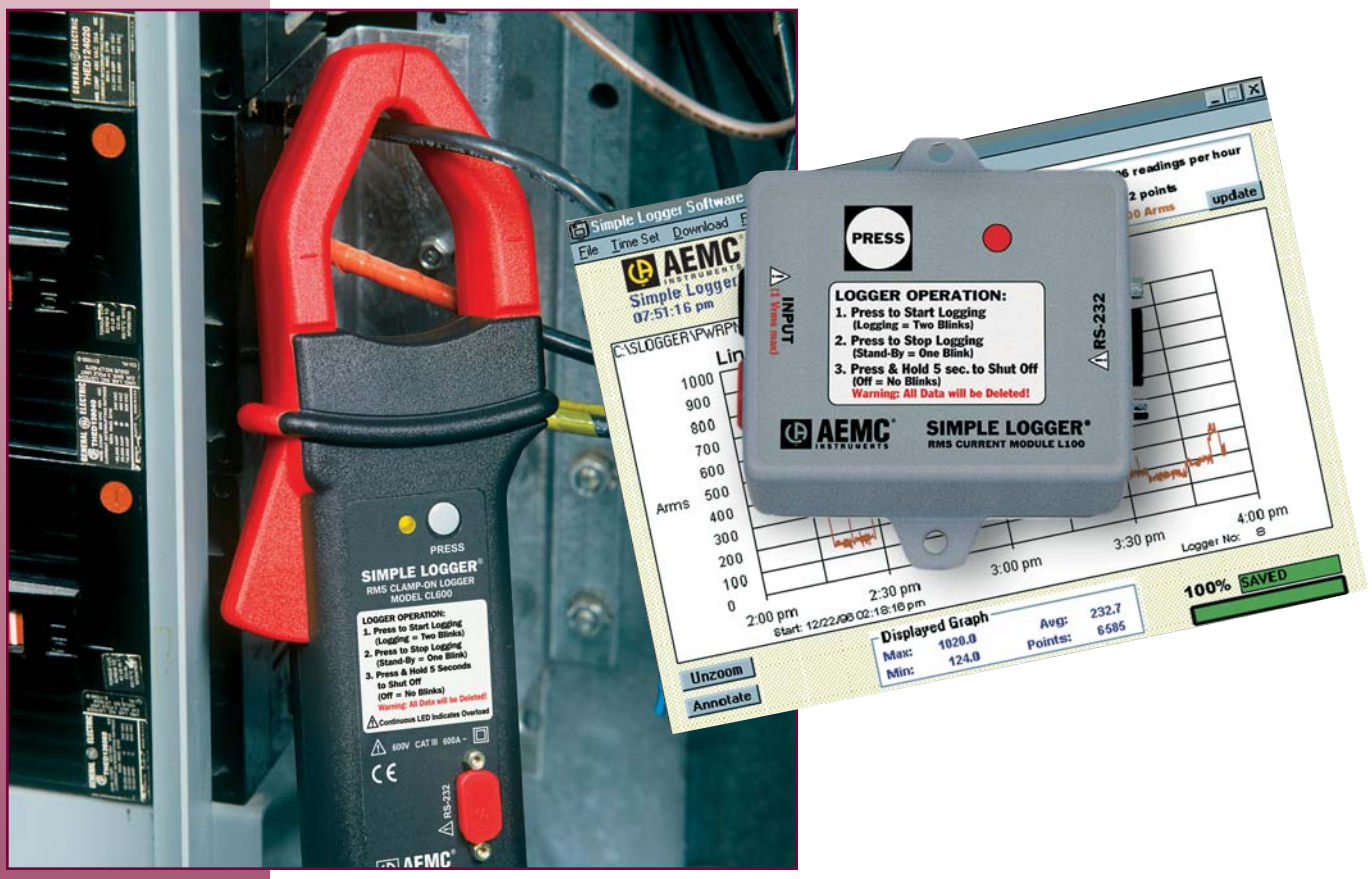
SIMPLE LOGGER®
DATA LOGGERS

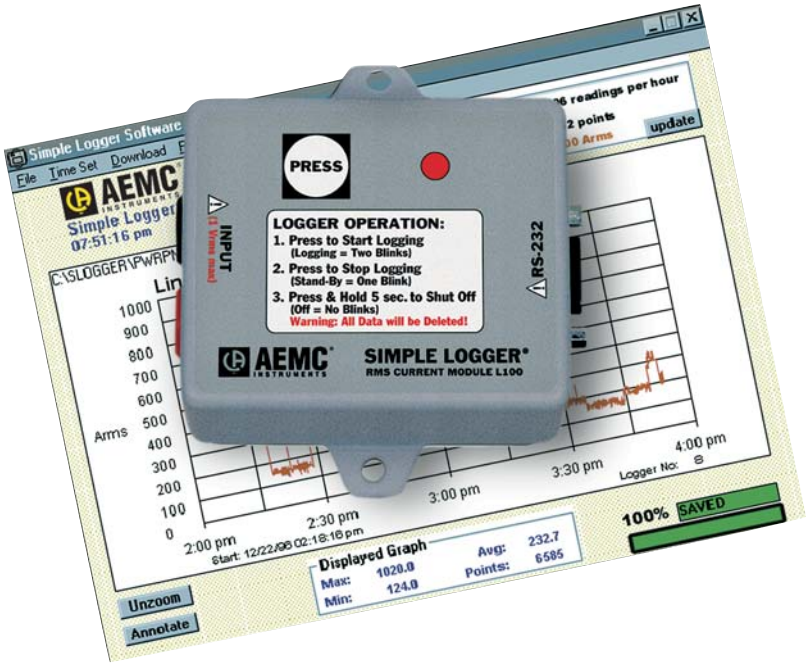
AC Current • AC Voltage • DC Voltage
Thermistor • Thermocouple • 4 to 20mA



- Complete line of loggers that include AC current, AC voltage, DC voltage, thermistor, thermocouple and 4 to 20mA
- Low cost data loggers require no user setup
- Automatically adjusts both its scale range and sample rate
- Windows® based software that can plot, analyze recorded data and print graphs and data listings

AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

DATA LOGGING MADE SIMPLE ... Simple Logger®



Simple Logger® is a single channel, low cost data logger that requires no user setup. It has the ability to automatically adjust both its scale range and its sample rate to optimize the recording session. Simple Logger® includes a Windows® based software package that can plot and analyze recorded data and print graphs and data listings.

Simple Logger® offers three modes of operation: LOGGING, STANDBY and OFF. A red LED indicates the mode of operation. In the LOGGING mode, the logger records information into memory; in the STANDBY mode, it retains the recorded information for transfer to a computer; in the OFF mode, the memory is cleared. However, if Simple Logger® is turned off by mistake, the cleared data can be easily recovered.

The main advantage of the Simple Logger® is its ability to perform a wide variety of recording tasks with high resolution and accuracy without the need for user setup. It achieves this by means of automatic scaling and Time Extension Recording™ (TXR™) along with a flexible input design.

Simple Logger® is easy to use. It is designed to record data on-site and download it to your computer for analysis. For the user who is monitoring a machine load or voltage line, troubleshooting HVAC, profiling a process loop or monitoring temperature, it's the perfect tool to give you the information you need, when you need it. Simply connect the Logger to the signal to be recorded and press the button to begin recording. When the session is complete, press the button to stop. It is that simple!

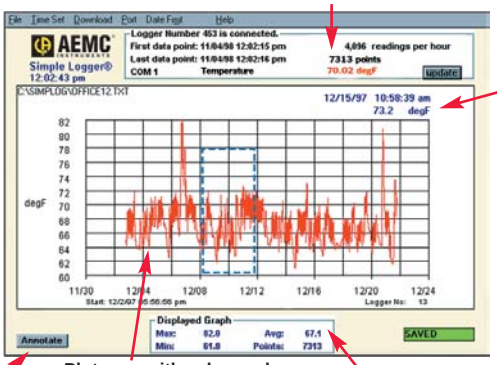
FEATURES

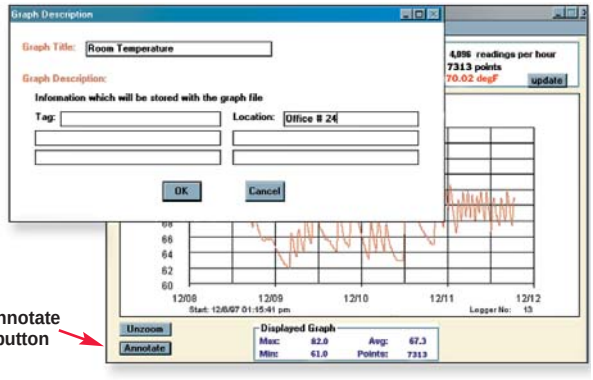
- No user setup required
- One button operation — start and stop recordings and turn the logger on and off
- Log and measure Arms, Vrms, Temperature, DC Volts, DC Amps (model dependent)
- Innovative Time Extension Recording™ (TXR™) technique provides continuous recording for any length of time without user setup
- Auto-Sampling up to 4096/hr — provides for maximum information
- Auto-Scaling — provides for optimum resolution for the recording session
- Small size — mount it anywhere
- Low power — records for up to one year using a 9V Alkaline battery
- Stores up to 73,000 readings (model dependent)
- Includes Windows® based graphing and analysis software

APPLICATIONS

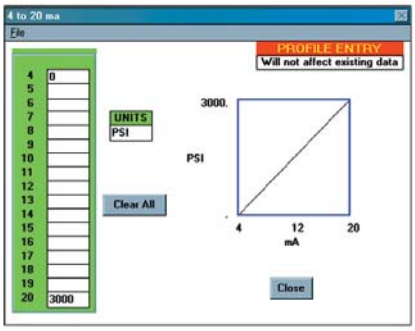
- Machine load monitoring
- Metering CT re-sizing
- Temperature monitoring
- HVAC troubleshooting
- Line voltage/stray voltage monitoring
- Computer room monitoring
- Food storage/refrigerated freight
- Load profiling
- Process control monitoring
- Railroad signal monitoring
- Surge/Sag monitoring
- Wave soldering
- Flow monitoring
- Level monitoring
- And many more

Simple Logger® Software

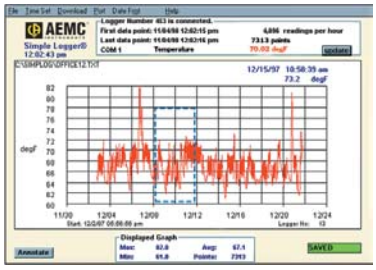




Click the Annotate button to add a title and descriptive information to your graph. This information can be stored and printed with a graph.

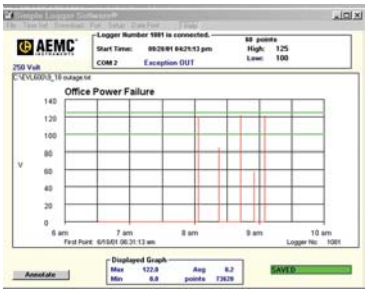


Click the scale button in the file menu to create custom scales and engineering units for DC voltage (Models L410 and L430) and DC current loggers (Model L320).

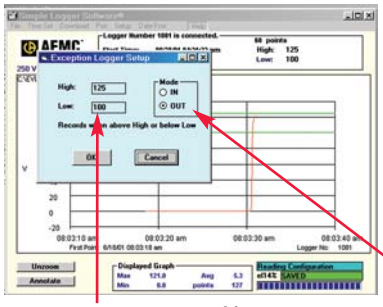


Click and drag your mouse to zoom up the desired area of the graph for better viewing. The Min, Max and Average statistics at the bottom of the graph update automatically when the graph is zoomed.

Simple Logger® Model 215 Software



Each captured exception is displayed at its time of occurrence on the graph. Individual exceptions can be zoomed up for more detailed analysis.



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 when the graph is zoomed.

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

FEATURES

- Very easy to set up 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
- User programmable High and Low limits (Model L215)
- User programmable record modes — inside or outside of limits (Model L215)

MINIMUM SYSTEM REQUIREMENTS

- Windows®98, Windows®2000/ME or Windows®XP
- 8MB of RAM
- One serial port not in use by any other device
- 8MB hard drive space for program and 400K max per file stored

AUTOMATIC REPORT GENERATION

AC CURRENT SIMPLE LOGGER® Models L100 & L110

Model L100

The Simple Logger® Models L100 and L110 are single channel, low cost data loggers that require no user setup. They have the ability to automatically adjust both their scale range and their sample rate to optimize the recording session.

The AC current logger measurement range is 0 to 1Vrms and 0 to 10,000Arms (based on probe) for Model L100, and 0 to 1Arms and 0 to 3000Arms (based on probe) for Model L110.

Both models are compatible with numerous AEMC current probes.

SPECIFICATIONS

MODELS	L100	L110
ELECTRICAL		
Number of Channels	One	One
Measurement Range	0 to 10,000Arms (based on probe)	0 to 3000Arms (based on probe)
Input	0 to 1Vrms	0 to 1Arms
Input Connection	Recessed safety banana jacks on ¾" (19mm) centers	
Resolution	8 bit (Max resolution depends on probe)	
Accuracy	±1% of Reading + Resolution + probe accuracy	
Sample Rate	4096/hr max, decreases by 50% each time memory is full	
Storage Technique	Time Extension Recording™ (TXR™)	
Data Storage	8192 readings	
Output	RS-232 via DB9 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	
Power Source	9V Alkaline battery	
Battery Life	Up to one year of recording @ 77°F (25°C)	
MECHANICAL		
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)	
Weight	5 oz (140g) including battery	
Case Material	Polystyrene UL VO	
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	
SAFETY		
Safety Rating	EN 61010, 600V Cat. III	
Double Insulation ⧈	Yes	

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 AAC output
  0 to 1Arms input
  0 to 3000Arms (based on probe)
- True RMS measurements
- Input via color-coded safety banana jacks
- Select scale via software to match probe
- RS-232 output
- One button operation
- Accuracy: ±1% of Reading + Resolution

APPLICATIONS

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

Model L110 with 200A AC Current Probe Model MN213

CLAMP-ON AC CURRENT SIMPLE LOGGER® Model CL600

Model CL600

The Clamp-On Simple Logger® Model CL600 is a self-contained data logging AC current probe. The logger requires no user setup and has the ability to automatically adjust its scale and sample rate to optimize the recording. One button operation makes the clamp-on logger extremely easy and quick to use. The Model CL600 has true RMS measurements with 0 to 600Arms input and storage of over 8000 data points with a built-in RS-232 port for downloading data. It also provides one year operation from a single 9V Alkaline battery. A Windows® based software package is included which allows plotting, statistical analysis, text annotation and zoom capability.

FEATURES

- 0 to 600Arms
- True RMS measurements
- Self-contained, no exposed connections
- Overload indication
- RS-232 output
- One button operation

APPLICATIONS

- Machine load monitoring
- HVAC troubleshooting
- Load profiling
- Electrical troubleshooting
- And many more

SPECIFICATIONS

MODEL	CL600
ELECTRICAL	
Number of Channels	One
Measurement Range	0 to 600Arms
Input Connection	Split jaw internal current sensor
Resolution	8 bit (0.5A)
Accuracy	2% of Reading + Resolution (0 to 400A) 5% of Reading + Resolution (400 to 600A)
Sample Rate	4096/hr max
Storage Technique	Time Extension Recording™ (TXR™)
Data Storage	8192 readings
Output	RS-232 via DB9 connector
Indicators	Red LED flashes once every two seconds in STANDBY mode, twice every two seconds in LOGGING mode, and if off in OFF mode
Controls	One button used to start and stop recording sessions and to turn the data logger on and off
Power Source	9V Alkaline battery
Battery Life	Up to one year of recording @ 77°F (25°C)
MECHANICAL	
Dimensions	9.25 x 4 x 1.62" (235 x 102 x 41mm)
Jaw Opening	1.65" (42mm) max
Weight	1.07 lbs (484.79g)
Case Material	Polycarbonate UL VO
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	
Safety Rating	EN 61010, 600V Cat. III
Double Insulation ⧈	Yes

Model CL600 recording current draw on a VSD

AC VOLTAGE SIMPLE LOGGER® Models L205, L230 & L260

Model L230

The Simple Logger® Models L205, L230 and L260 are single channel, low cost data loggers that require no user setup. They have the ability to automatically adjust both their scale range and their sample rate to optimize the recording session.

The Model L205 has an AC voltage measurement range of 0 to 25Vrms (stray voltage). The Model L230 has an AC voltage measurement range of 0 to 300Vrms, and the Model L260 has an AC voltage measurement range of 0 to 600Vrms.

FEATURES

- Three input types to choose from:
  Model L205
  0 to 25Vrms input (stray voltage)
  Model L230
  0 to 300Vrms input
  Model L260
  0 to 600Vrms input
- True RMS measurements
- Input via color-coded safety banana jacks
- Scale automatically selected by software
- RS-232 output
- One button operation
- Accuracy: ±1% of Reading + Resolution

APPLICATIONS

- HVAC troubleshooting
- Line voltage monitoring
- Surge/Sag monitoring
- Stray voltage monitoring
- Dropout monitoring
- And many more

Model L260 setting up to log voltage in a distribution panel.

SPECIFICATIONS

MODELS	L205	L230	L260
ELECTRICAL			
Number of Channels	One	One	One
Measurement Range	0 to 25Vrms	0 to 300Vrms	0 to 600Vrms
Input	0 to 25Vrms	0 to 300Vrms	0 to 600Vrms
Input Impedance	1MΩ	2MΩ	2MΩ
Input Connection	Recessed safety banana jacks on ¾" (19mm) centers		
Resolution	8 bit 12.5mV max	8 bit 250mV max	8 bit 500mV max
Accuracy	±1% of Reading + Resolution		
Sample Rate	4096/hr max, decreases by 50% each time memory is full		
Storage Technique	Time Extension Recording™ (TXR™)		
Data Storage	8192 readings		
Output	RS-232 via DB9 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		
Power Source	9V Alkaline battery		
Battery Life	Up to one year of recording @ 77°F (25°C)		
MECHANICAL			
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)		
Weight	5 oz (140g) including battery		
Case Material	Polystyrene UL VO		
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		
SAFETY			
Safety Rating	EN 61010, 600V Cat. III		
Double Insulation ⧈	Yes		

AC EXCEPTION VOLTAGE SIMPLE LOGGER® Model L215

Model L215

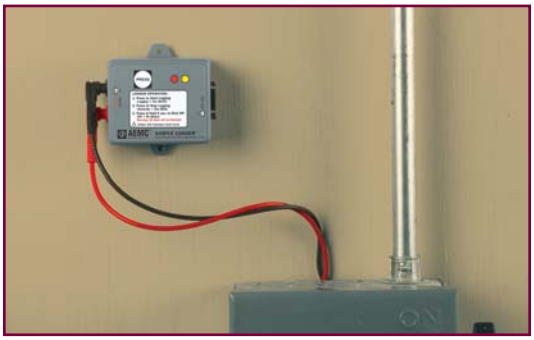
The AC Exception Voltage Simple Logger® Model L215 is the ideal product to capture short-term events such as sags and swells. This logger samples the input 10 times per second and only stores the data when an alarm threshold is crossed, thus maximizing its use of memory. The 73,000-point storage capacity provides enough memory to store more than 1000 events, each containing 60 data points. The Model L215 is powered by the AC voltage signal it is monitoring and incorporates a backup battery to provide up to one year of additional operation and data storage protection.

FEATURES

- 0 to 250Vrms measurement range
- 10 samples per second
- Stores data when alarm level is tripped
- True RMS measurements
- Stores over 73,000 readings
- 10 bit resolution (250mV)
- Detect sags and swells
- Scale automatically selected by software
- Software programmable High and Low alarm levels
- RS-232 output
- One button operation
- Alarm trip LED indicator

APPLICATIONS

- Surge/Sag monitoring
- Computer room monitoring
- Residential monitoring
- Machine monitoring
- Marine power monitoring
- And many more



Model L215 monitoring a control panel looking for dropouts and spikes in the line voltage

SPECIFICATIONS

MODEL	L215
ELECTRICAL	
Number of Channels	One
Measurement Range	0 to 250Vrms
Input	250V, Programmable event window
Input Connection	Recessed safety banana jacks on ¾" (19mm) centers
Resolution	10 bit, 250mV max
Accuracy	±1% of Reading + 250mV
Sample Rate	36,000/hr (10 samples per sec)
Storage Technique	Exception recording in FIFO mode; 60 samples stored when alarm is tripped. Each 60 second sample recording is considered to be a packet. When memory is full, data will be overwritten one packet at a time beginning with the oldest. Recording only occurs during alarm conditions.
Data Storage	73,620 readings
Output	RS-232 via DB9 connector (@ 4800 baud)
Indicators	Red LED double flashes in LOGGING, single flashes in STANDBY, and is off in OFF mode. Amber LED single flashes for Exception and can only be reset by stopping the recording and downloading the data.
Controls	One button used to start and stop recording sessions and to turn the data logger on and off
Power Source	Powered from measured signal with 9V Alkaline battery backup
Battery Life	Up to one year of recording @ 77°F (25°C)
MECHANICAL	
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)
Weight	5 oz (140g) including battery
Case Material	Polystyrene UL VO
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
SAFETY	
Safety Rating	EN 61010, 300V Cat. III
Double Insulation ⧈	Yes

DC VOLTAGE SIMPLE LOGGER® Models L410 & L430

Model L430

The Simple Logger® Models L410 and L430 are single channel, low cost data loggers that require no user setup. They have the ability to automatically adjust both their scale range and sample rates to optimize the recording session. The Model L410 DC voltage logger's measurement range is 0 to 100mVDC and the Model L430 has a DC voltage measurement range of 0 to 10VDC.

FEATURES

- Two models to choose from:
  Model L410
  0 to 100mVDC
  Model L430
  0 to 10VDC
- Input impedance: 1MΩ
- Programmable scales via software
- Programmable units via software
- Inputs via color-coded safety banana jacks
- RS-232 output
- One button operation
- Accuracy: ±1% of Reading + Resolution

APPLICATIONS

- Circuit design troubleshooting
- Sensor monitoring
- Battery monitoring
- Power supply profiling

SPECIFICATIONS

MODELS	L410	L430
ELECTRICAL		
Number of Channels	One	One
Measurement Range	0 to 100mVDC	0 to 10VDC
Input Impedance	1MΩ	1MΩ
Input Connection	Recessed safety banana jacks on ¾" (19mm) centers	Recessed safety banana jacks on ¾" (19mm) centers
Resolution	50µV max	5mV max
Accuracy	1% of Reading + Resolution	
Sample Rate	4096/hr max	
Storage Technique	Time Extension Recording™ (TXR™)	
Data Storage	8192 readings	
Output	RS-232 9 pin via DB9 connector	
Indicators	Red LED double flashes once every two seconds in STANDBY mode, twice every two 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	
Power Source	9V Alkaline battery	
Battery Life	Up to one year of recording @ 77°F (25°C)	
MECHANICAL		
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)	
Weight	5 oz (140g) including battery	
Case Material	Polystyrene UL VO	
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	
SAFETY		
Safety Rating	EN 61010, 30V Cat. III	
Double Insulation ⧈	Yes	

THERMISTOR SIMPLE LOGGER® Model L605

Model L605

The Simple Logger® Thermistor Logger Model L605 is a single channel, low cost data logger that requires no user setup. It is directly compatible with industry standard 10kΩ thermistor probes. The Model L605 has both an internal and external thermistor with a measurement range of -4° to 212°F (-20° to 100°C).

FEATURES

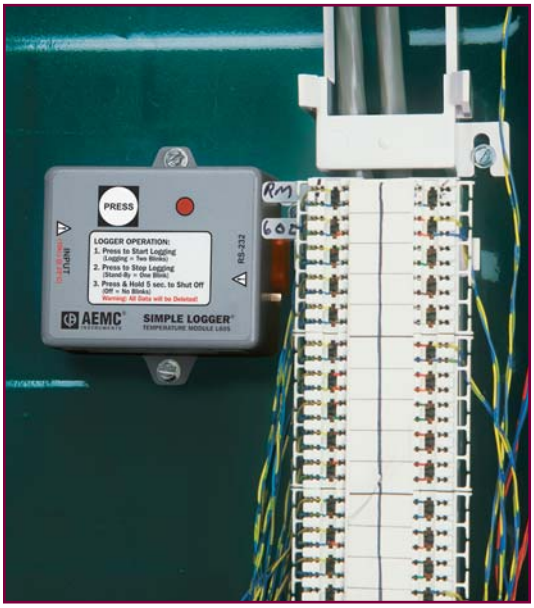
- Internal or external thermistor
- Thermistor type 10KΩ @ 77°F (25°C)
- Measurement Range:
  (Internal)
  -4° to 158°F (-20° to 70°C)
  (External)
  -4° to 212°F (-20° to 100°C)
- RS-232 output
- One button operation
- Accuracy: ±1% of Reading + 0.25°C

APPLICATIONS

- Ambient temperature monitoring
- HVAC troubleshooting
- Computer room monitoring
- Food storage
- Wave soldering temperature profiling
- Process control monitoring
- Refrigerated freight
- And many more

SPECIFICATIONS

MODEL	L605
ELECTRICAL	
Number of Channels	One
Measurement Range	Temperature °F and °C
Input Impedance	Thermistor type 10KΩ @ 77°F (25°C)
Input Connection	In-line 3.5mm connector
Resolution	8 bit
Accuracy	1% of Reading ± 0.25°C
Sample Rate	4096/hr max, decreases by 50% each time memory is full
Storage Technique	Time Extension Recording™ (TXR™)
Data Storage	8192 readings
Output	RS-232 via DB9 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
Power Source	9V Alkaline battery
Battery Life	Up to one year of recording @ 77°F (25°C)
MECHANICAL	
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)
Weight	5 oz (140g) including battery
Case Material	Polystyrene UL VO
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
SAFETY	
Safety Rating	EN 61010, 30V Cat. III
Double Insulation ⧈	Yes



Model L605 monitoring the temperature in a communications cabinet

THERMOCOUPLE SIMPLE LOGGER® Models L610, L620 & L630

The Simple Logger® Models L610, L620 and L630 are single channel, low cost thermocouple data loggers that require no user setup. They have the ability to automatically adjust both their scale range and their sample rate to optimize the recording session.

Model L630

FEATURES

- Three models to choose from:
  Model L610 (Type J)
  32° to 1382°F (0° to 750°C)
  Model L620 (Type K)
  -328° to 2282°F (-200° to 1250°C)
  Model L630 (Type T)
  -328° to 662°F (-200° to 350°C)
- Inputs via color-coded miniature thermocouple jacks
- Open thermocouple
- RS-232 output
- One button operation
- Internal cold junction compensation
- Accuracy: ±0.5% of Reading + T/C Accuracy

APPLICATIONS

- Process control monitoring
- Wave soldering
- Refrigeration monitoring
- HVAC
- And many more

SPECIFICATIONS

MODELS	L610	L620	L630
ELECTRICAL			
Number of Channels	One	One	One
Measurement Range	32° to 1382°F (0° to 750°C)	-328° to 2282°F (-200° to 1250°C)	-328° to 662°F (-200° to 350°C)
Input	J thermocouple	K thermocouple	T thermocouple
Input Connection	Miniature black thermocouple jacks	Miniature yellow thermocouple jacks	Miniature blue thermocouple jacks
Resolution	12 bit	12 bit	12 bit
Accuracy	0.5% of Reading + T/C Accuracy		
Sample Rate	4096/hr max		
Storage Technique	Time Extension Recording™ (TXR™)		
Data Storage	16,384 readings		
Output	RS-232 via DB9 connector		
Indicators	Red LED flashes once every two seconds in STANDBY mode, twice every two 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		
Power Source	9V Alkaline battery		
Battery Life	Up to one year of recording @ 77°F (25°C)		
MECHANICAL			
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)		
Weight	5 oz (140g) including battery		
Case Material	Polystyrene UL VO		
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		
SAFETY			
Safety Rating	EN 61010, 30V Cat. III		
Double Insulation ⧈	Yes		

4 to 20mA SIMPLE LOGGER® Model L320

Model L320

The 4 to 20mADC Simple Logger® Model L320 is ideal for process control monitoring and troubleshooting. The measurement range is 0 to 25mADC. The unit is self-contained with no exposed connections. The logger requires no user setup and has the ability to automatically adjust its scale and sample rate to optimize the recording. One button operation makes the DC current logger extremely easy and quick to use.

FEATURES

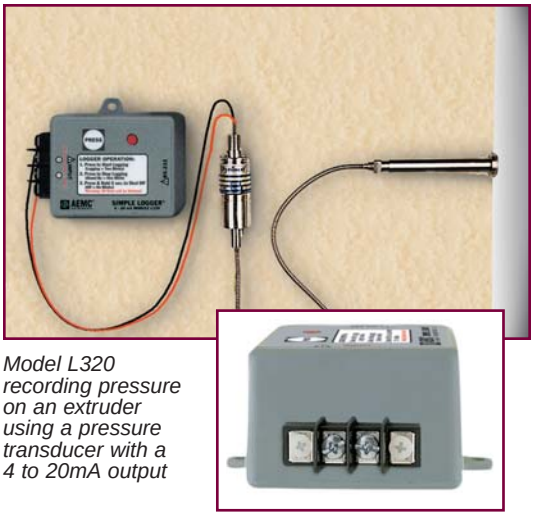
- Auto-Ranging
- Programmable scales via software
- Programmable units via software
- RS-232 output
- Simple one button operation
- Standard terminal strip input
- Self adjusting sample rate
- Compact size fits anywhere
- Low loop impedance
- Accuracy: ±1% of Reading + Resolution

APPLICATIONS

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

SPECIFICATIONS

MODEL	L320
ELECTRICAL	
Number of Channels	One
Measurement Range	0 to 25mADC
Input Impedance	100Ω
Input Connection	Two post screw terminal strip
Resolution	8 bit (12.5µA max)
Accuracy	1% of Reading + Resolution
Sample Rate	4096/hr max
Storage Technique	Time Extension Recording™ (TXR™)
Data Storage	8192 readings
Output	RS-232 9 pin via DB9 connector
Indicators	Red LED double flashes once every two seconds in STANDBY mode, twice every two 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
Power Source	9V Alkaline battery
Battery Life	Up to one year of recording @ 77°F (25°C)
MECHANICAL	
Dimensions	2.88 x 2.32 x 1.62" (73 x 59 x 41mm)
Weight	5 oz (140g) including battery
Case Material	Polystyrene UL VO
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
SAFETY	
Safety Rating	EN 61010, 30V Cat. III
Double Insulation ⧈	Yes



Model L320 recording pressure on an extruder using a pressure transducer with a 4 to 20mA output

FLEXIBLE CURRENT PROBE SIMPLE LOGGER® Models AL24-2500, AL36-2500, AL24-5000 & AL36-5000

Model AL36-5000

The AmpFlex™ Flexible Current Probe Simple Loggers® combine two technologies to become the ultimate measurement recording device. The AmpFlex™ flexible current probe is designed to take measurements where standard clamp-ons cannot: in tight breaker panels, around large bus bars, around cable bundles and even wrapped around irregular shapes. Combined with the recording technology of the Simple Logger® it measures, records and graphs True RMS readings. The flexible sensor is available in 24" and 36". It is weatherproof NEMA 4X, IP65 rated. The flexible current probe logger is self-contained and records for up to six months.

FEATURES

- Four models to choose from
- True RMS recording — 250 and 2500Arms/500 and 5000Arms
- Self contained, no exposed connections
- Weatherproof NEMA 4X, IP65 rated
- Flexible sensor — fits anywhere
- Records for up to six months
- Scale automatically selected in software
- RS-232 output

APPLICATIONS

- Load profiling
- Machine load monitoring
- Substation monitoring

SPECIFICATIONS

MODELS	AL24-2500	AL36-2500	AL24-5000	AL36-5000
ELECTRICAL				
Number of Channels	One	One	One	One
Measurement Range Internally Switch Selectable	5 to 250Arms or 5 to 2500Arms	5 to 250Arms or 5 to 2500Arms	5 to 500Arms or 5 to 5000Arms	5 to 500Arms or 5 to 5000Arms
Input Sensor	24" AmpFlex™	36" AmpFlex™	24" AmpFlex™	36" AmpFlex™
Resolution 250A 500A 2500A 5000A	1A max – 10A max –	1A max – 10A max –	– 2A max – 20A max	– 2A max – 20A max
Accuracy	1% of Reading + Resolution			
Storage Technique	Time Extension Recording™ (TXR™)			
Data Storage	8192 Readings			
Output	RS-232 via 5 pin circular connecter			
Indicators	Red LED light flashes once every two seconds in LOGGING mode, and is off in OFF mode. LED is on continuously in overload condition			
Controls	One button used to start and stop recording sessions and to turn the data logger on and off			
Power Source	9V Alkaline battery			
Battery Life	Up to six months of recording @ 77°F (25°C)			
MECHANICAL				
Sensor Diameter	0.5" (12.5mm)			
Logging Module Dimensions	4.5 x 2.5 x 1.56 " (114 x 64 x 41mm)			
Weight	15.5 oz (439g) including battery			
Case Material	ABS UL94 VO			
Mounting	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				
Safety Rating	EN 61010, 30V Cat. III			
Double Insulation ⧈	Yes			

ACCESSORIES

Split Core AC and DC Current Probes

Current Probe and Simple Logger® Compatibility

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" / ø = 1.18"	MN211	1000:1	0.5 to 240A	–	1mAAC/AAC	–	Lead	2115.73	L110
	MN213	1000:1	0.5 to 240A	–	1mAAC/AAC	–	Lead	2115.75	L110
	MN251	–	0.1 to 240A	–	–	1mVAC/AAC	Lead	2115.77	L100
	MD301	–	2 to 500A	–	–	1mVDC/AAC	Lead	1201.07	L430
	MD303	1000:1	4 to 500A	–	1mAAC/AAC	–	Lead	1201.21	L110
	MD305	1000:1	1 to 600A	–	1mAAC/AAC	–	Lead	1201.36	L110
	MD314	–	4 to 500A	–	–	1mVAC/AAC	Lead	2110.75	L100
ø = 1.18"	MR410*	–	1 to 400A –	– 1 to 600A	–	1mV/AAC 1mV/ADC	Lead Lead	1200.70 1200.70	L100 (AC) L430 (DC)
ø = 1.18"	MR411*	–	0.2 to 40A 0.5 to 400A – –	– 0.5 to 600A 0.4 to 60A 0.5 to 600A	–	10mV/AAC 1mV/AAC 10mV/ADC 1mV/ADC	Lead Lead	1200.68 1200.68	L100 (AC) L430 (DC)
ø = 1.6"	MR520*	–	1 to 1000A –	– 1 to 1500A	–	1mV/AAC/DC 1mV/AAC/DC	Lead	1200.71	L100 (AC) L430 (DC)
ø = 1.6"	MR521*	–	0.2 to 100A 0.5 to 1000A 0.2 to 100A 0.5 to 1000A	0.4 to 150A 0.5 to 1500A 0.4 to 1500A 0.5 to 1500A	–	10m V/AAC 1mV/AAC 10mV/ADC 1mV/ADC	Lead Lead	1200.69 1200.69	L100 (AC) L430 (DC)
ø = 2.05"	SR604	1000:1	0.1 to 1000A	–	1mAAC/AAC	–	Lead	2113.44	L110
	SR652	–	0.1 to 1000A	–	–	1mVAC/AAC	Lead	2113.46	L100
	SR704	1000:1	1mA to 1000A	–	1mAAC/AAC	–	Lead	2116.30	L110
	SR752	–	0.1 to 1000A	–	–	1mVAC/AAC	Lead	2116.32	L100

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

Flexible Current Probe and Simple Logger® Compatibility

Flexible Probes for use with Simple Logger® Model L100			
24" Flexible Probes			
Catalog No.	**Probe Model**	**Range**	**Ratio**
2112.20	200-24-1-1	200A	1mV/A
2112.24	300-24-1-1	300A	1mV/A
2112.34	500-24-1-1	500A	1mV/A
2112.39	1000-24-1-1	1000A	1mV/A
2112.62	6000-24-1-0.1	6000A	0.1mV/A
2112.70	10000-24-1-0.1	10,000A	0.1mV/A
2112.93	500-24-2-1	50/500A	10/1mV/A
2112.98	1000-24-2-1	100/1000A	10/1mV/A
2113.19	6000-24-2-0.1	600/6000A	1/0.1mV/A
2113.27	10000-24-2-0.1	1000/10,000A	1/0.1mV/A
2114.87	3000-24-2-0.3	300/3000A	3.3/0.3mV/A
36" Flexible Probes			
Catalog No.	**Probe Model**	**Range**	**Ratio**
2112.02	10000-36-2-0.1	1000/10,000A	1/0.1mV/A
2112.41	1000-36-1-1	1000A	1mV/A
2112.64	6000-36-1-0.1	6000A	0.1mV/A
2112.72	10000-36-1-0.1	10,000A	0.1mV/A
2113.00	1000-36-2-1	100/1000A	10/1mV/A
2113.21	6000-36-2-0.1	600/6000A	1/0.1mV/A
2114.88	3000-36-2-0.3	300/3000A	0.3/3.3mV/A
48" Flexible Probes			
Catalog No.	**Probe Model**	**Range**	**Ratio**
2112.03	10000-48-2-0.1	1000/10,000A	1/0.1mV/A
2112.42	1000-48-1-1	1000A	1mV/A
2112.65	6000-48-1-0.1	6000A	0.1mV/A
2112.73	10000-48-1-0.1	10,000A	0.1mV/A
2113.01	1000-48-2-0.1	100/1000A	10/1mV/A
2113.22	6000-48-2-0.1	600/6000A	1/0.1mV/A
60" Flexible Probes			
Catalog No.	**Probe Model**	**Range**	**Ratio**
2112.74	10000-60-1-0.1	10,000A	0.1mV/A
2113.29	10000-60-2-0.1	1000/10,000A	1/0.1mV/A

LongLife AmpFlex™ for use with Simple Logger® Model L100			
24" Flexible Probes			
Catalog No.	**Probe Model**	**Range**	**Ratio**
2120.66	1000-24-1-1	1000A	0.1mV/A
2120.67	1000-24-2-1	100/1000A	10mV/1mmV/A
36" Flexible Probes			
Catalog No.	**Probe Model**	**Range**	**Ratio**
2120.68	3000-36-1-1	3000A	0.3mV/A
2120.69	3000-36-2-1	300/3000A	0.3mV/3.3mV/A

Carrying Case
Cat. #2118.09

Simple Logger® Software Upgrade for all models available for download at www.aemc.com

Thermistor Probe with Epoxy bead, 6 ft for use with L605
Cat. #2114.19

Cable, 6 ft DB9F/Circular Connector (for AL series)
Cat. #2114.25

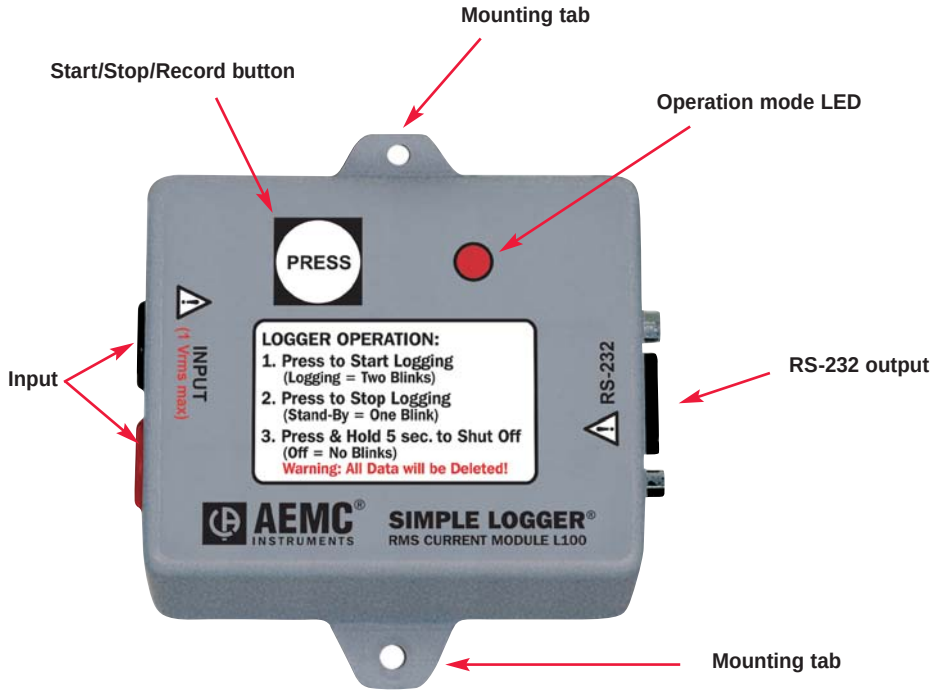
Cable, 6 ft DB9 M/F Replacement for all Models (except AL Series)
Cat. #2114.27

Thermistor Probe with 4" stainless steel sheath, 6 ft for Model L605
Cat. #2114.20

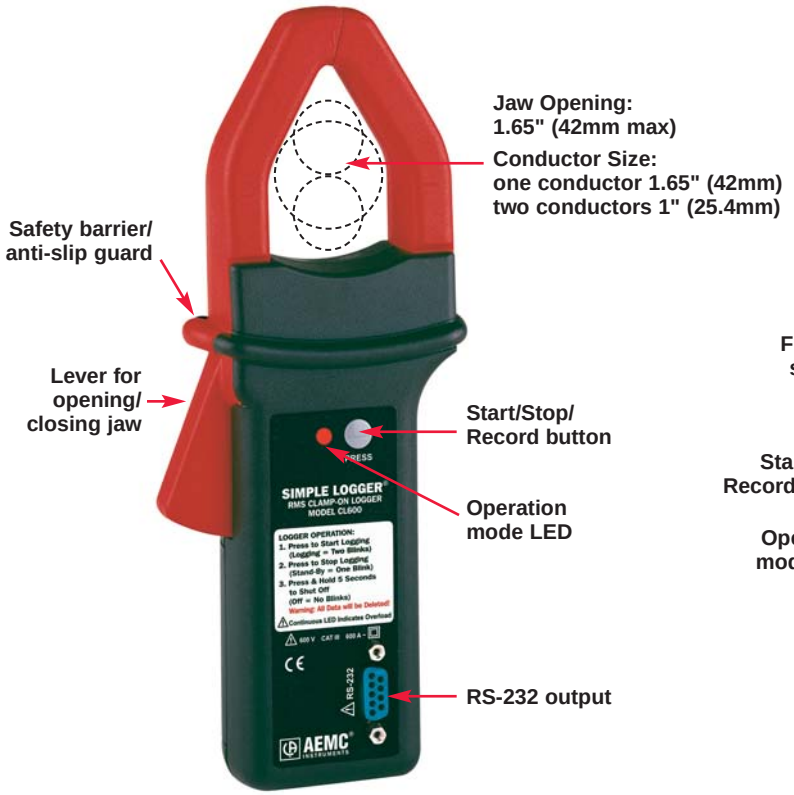
Voltage Leads, set of two, with clips, 5 ft, compatible with Models L205, L230, L260, L410 and L430
Cat. #2118.51

110V US Outlet Adapter with banana jacks for Models L230 and L260
Cat. #2118.49

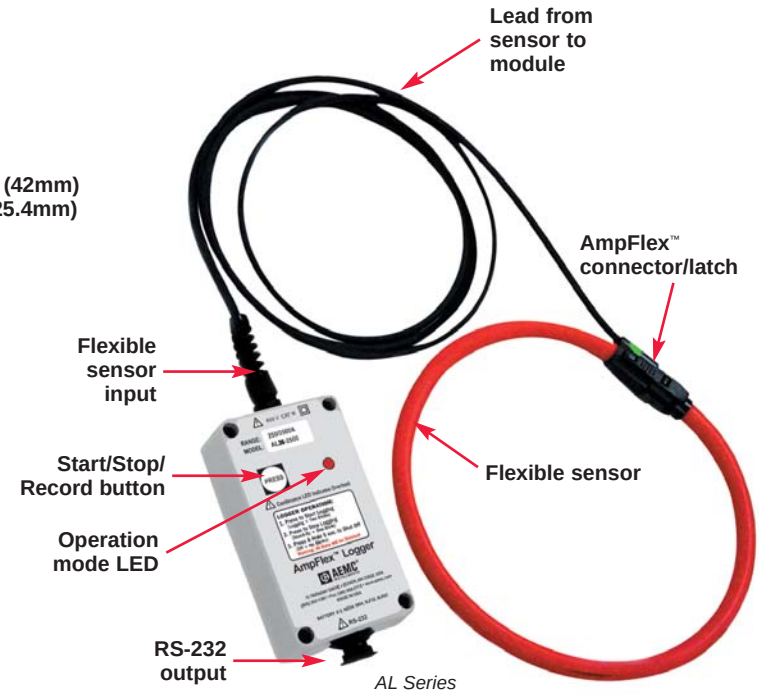
CONSTRUCTION



L Series



CL Series



AL Series

INPUT CONNECTIONS

Banana Jacks

- L100
- L110
- L205
- L215
- L230
- L260
- L410
- L430

Miniature T/C Input Connector

- L610 (black) (J T/C)
- L620 (yellow) (K T/C)
- L630 (blue) (T T/C)

In-Line Connector

- L605 (10KΩ @ 25°C thermistor)

Input Strip

- L320 (0 to 25mADC)

9 Pin RS-232 Output

- All Models (except AL series)

5 Pin Circular RS-232 Output

- AL series (waterproof)

ORDERING INFORMATION — CATALOG NO.

Simple Logger® Model L100 (RMS Current, 0 to 1VAC Input)	**Cat. #2113.50**
Simple Logger® Model AL24-2500 (RMS Current, 250/2500A, 24" AmpFlex™)	**Cat. #2113.72**
Simple Logger® Model AL36-2500 (RMS Current, 250/2500A, 36" AmpFlex™)	**Cat. #2113.73**
Simple Logger® Model AL24-5000 (RMS Current, 500/5000A, 24" AmpFlex™)	**Cat. #2113.74**
Simple Logger® Model AL36-5000 (RMS Current, 500/5000A, 36" AmpFlex™)	**Cat. #2113.75**
Simple Logger® Model L110 (RMS Current, 0 to 1AAC Input)	**Cat. #2113.85**
Simple Logger® Model L230 (RMS Voltage w/Leads, 0 to 300VAC Input)	**Cat. #2113.93**
Simple Logger® Model L260 (RMS Voltage w/Leads, 0 to 600VAC Input)	**Cat. #2113.94**
Simple Logger® Model L320 (DC Current, 4 to 20mADC Input)	**Cat. #2113.97**
Simple Logger® Model L410 (DC Voltage 0 to 100mVDC Input)	**Cat. #2114.05**
Simple Logger® Model L430 (DC Voltage, 0 to 10VDC Input)	**Cat. #2114.07**
Simple Logger® Model L605 (Temperature, Temperature-Internal/External Thermistor)	**Cat. #2114.17**
Simple Logger® Model L205 (Stray Voltage w/Leads, 0 to 25.5VAC Input)	**Cat. #2116.05**
Simple Logger® Model L215 (RMS Voltage, 0 to 250VAC Input)	**Cat. #2116.07**
Simple Logger® Model CL600 (Clamp-On, RMS Current, 0 to 600Arms Input)	**Cat. #2116.11**
Simple Logger® Model L610 (Temperature, J Thermocouple)	**Cat. #2116.15**
Simple Logger® Model L620 (Temperature, K Thermocouple)	**Cat. #2116.16**
Simple Logger® Model L630 (Temperature, T Thermocouple)	**Cat. #2116.17**

All models includes software, 6 ft DB9 RS-232 cable, 9V Alkaline battery and user manual

Models L205, L215, L230 and L260 also include 5 ft lead set

Accessories (Optional)

See pages 13 and 14 for a complete listing of accessories

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