

### Models L101 & L102

One channel loggers with the ability to perform a variety of recording tasks



#### ► SPECIFICATIONS

| MODELS                | L101   | L102                                  |
|-----------------------|--|---------------------------------------|
| <b>ELECTRICAL</b>     |  |                                       |
| Channels              | One  | Two                                   |
| Input Connection      | BNC  | One BNC connector per channel         |
| Measurement Range     | 0 to 1Vac (probe dependent)  |                                       |
| Resolution            | 0.1mV  |                                       |
| Accuracy (50/60Hz)    | 0 to 10mV: unspecified<br>10 to 50mV: ±(0.5% of Reading + 1mV)<br>50 to 1000mV: ±(0.5% of Reading + 0.5mV)                                     |                                       |
| Input Impedance       | 800kΩ  |                                       |
| Sample Rate           | 64 samples/cycle   |                                       |
| Storage Rate          | Programmable from 8 every second to 1 every day  |                                       |
| Storage Modes         | Start/Stop, FIFO, Extended Recording Mode (XRM™) and Alarm   |                                       |
| Recording Length      | 15 minutes to 8 weeks, programmable using DataView®  |                                       |
| Memory                | 240,000 measurements (512KB)<br>The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed. |                                       |
| Communication         | USB 2.0 optically isolated   |                                       |
| Power Source          | 2 x 1.5V AA-cell Alkaline batteries (included)   |                                       |
| Battery Life          | 100 hours to >45 days (dependent on sample rate and recording length)  |                                       |
| <b>MECHANICAL</b>     |  |                                       |
| Dimensions            | 5.38 x 2.75 x 1.28" (136 x 70 x 32mm)  | 5.18 x 2.75 x 1.28" (132 x 70 x 32mm) |
| Max Conductor Size    | Current probe dependent  |                                       |
| Weight (with battery) | 6.4oz (181g)   | 6.64oz (188g)                         |
| Case                  | UL94-V0  |                                       |
| Vibration             | IEC 68-2-6 (1.5mm, 10 to 55Hz)   |                                       |
| Shock                 | IEC 68-2-27 (30G)  |                                       |
| Drop                  | IEC 68-2-32 (1m)   |                                       |

#### ► FEATURES

- Compatible standard current probes with voltage output and BNC connection (Models L101 & L102) (see pages 58 & 59 - sold separately)
- 2 inputs (Model L102)
- 64 samples per cycle
- Programmable storage rates from 8 every second to 1 every day
- 4 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- Powered by standard Alkaline batteries
- Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display logger status
- Includes FREE DataView® software for data storage, real-time display, analysis and report generation
- Optically isolated USB 2.0 communication cable included
- EN 61010-1; 50V CAT III

#### ► APPLICATIONS (MODEL L101)

- Load profiling
- Fault current detection
- Intermittent problem detection
- Demand recording
- Neutral current monitoring
- Harmonic current recording using DataView® software
- Metering CT resizing
- Start-Stop time stamping

#### ► APPLICATIONS (MODEL L102)

- Split phase load monitoring
- Neutral & ground current monitoring
- Intermittent problem detection
- Harmonic current monitoring using DataView® software
- Machine load monitoring
- Start-Stop time stamping

See pages 2-3 for compatible current probes (sold separately)

| CATALOG NO. | DESCRIPTION   |
|-------------|---|
| 2126.02     | Simple Logger® II Model L101 (1-Channel, TRMS, 0 to 1Vac, DataView® software) |
| 2126.03     | Simple Logger® II Model L102 (2-Channel, TRMS, 0 to 1Vac, 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<br>10mV/AAC            | 0.1 to 24AAC<br>0.5 to 240AAC                | 10AAC<br>100AAC            | 0.78"<br>(19.8mm)  | N/A                               | Lead w/BNC            | L101<br>L102<br>L562   | —                          |
| JM830A            | 2110.83             | 0.333mA/AAC                      | 1 to 2400A                                   | 2400A                      | 2.52"<br>(64mm)    | 1.97 x 5.31"<br>(50 x 134.87mm)   | Lead                  | L111                   | —                          |
| JM861             | 2110.90             | 10mV/AAC<br>1mV/AAC<br>0.1mV/AAC | 1 to 30AAC<br>1 to 300AAC<br>1 to 3000AAC    | 30AAC<br>300AAC<br>3000AAC | 2.52"<br>(64mm)    | 1.97 x 5.31"<br>(50 x 134.87mm)   | Lead w/BNC            | L101<br>L102<br>L562   | —                          |
| MF 300-6-2-10     | 2126.81             | 100mV/AAC<br>10mV/AAC            | 30AAC<br>300AAC                              | 10AAC<br>100AAC            | 1.77"<br>(44.96mm) | 2.25 x 0.75"<br>(57.15 x 19.05mm) | Sensor w/BNC          | L101<br>L102<br>L562   | —                          |
| 300-24-2-1        | 2112.88             | 100mV/AAC<br>10mV/AAC            | 5 to 30A<br>5 to 300A                        | 10A<br>100A                | 8"<br>(203.2mm)    | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| 1000-24-1-1       | 2112.39             | 1mV/AAC                          | 5 to 1000A                                   | 1000A                      | 8"<br>(203.2mm)    | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| 1000-24-2-1       | 2112.98             | 10mVAC<br>1mV/AAC                | 5 to 100A<br>5 to 1000A                      | 100A<br>1000A              | 8"<br>(203.2mm)    | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| 1000-36-2-1       | 2113.00             | 10mVAC<br>1mV/AAC                | 5 to 100A<br>5 to 1000A                      | 100A<br>1000A              | 11"<br>(279.4mm)   | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| 3000-24-2-0.3     | 2114.87             | 3.3mV/AAC<br>0.3mV/AAC           | 5 to 300A<br>5 to 3000A                      | 300A<br>3000A              | 8"<br>(203.2mm)    | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| 6000-36-2-0.1     | 2113.21             | 1mV/AAC<br>0.1mV/AAC             | 5 to 600A<br>5 to 6000A                      | 600A<br>6000A              | 11"<br>(279.4mm)   | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| 30000-24-2-0.1    | 2113.33             | 1mV/AAC<br>0.1mV/AAC             | 5 to 3000A<br>5 to 30,000A                   | 1000A<br>10,000A           | 8"<br>(203.2mm)    | N/A                               | Sensor w/Banana Plugs | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| MN01              | 2129.17             | 1mA/AAC                          | 2 to 150A                                    | 150A                       | 0.39"<br>(9.9mm)   | N/A                               | Lead                  | L111                   | —                          |
| MN02              | 2129.20             | 1mA/AAC                          | 50mA to 100A<br>(1Ω)<br>50mA to 90A<br>(10Ω) | 100AAC                     | 0.39"<br>(9.9mm)   | N/A                               | Lead                  | L111                   | —                          |
| MN03              | 2129.18             | 1mV/AAC                          | 2 to 100AAC                                  | 100AAC                     | 0.47"<br>(11.94mm) | N/A                               | Lead w/Banana Plug    | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| MN93-BK           | 2140.32             | 5mV/AAC                          | 2 to 240AAC                                  | 200AAC                     | 0.8"<br>(20.32mm)  | N/A                               | Proprietary           | L104<br>L564           | —                          |
| MN193-BK          | 2140.36             | 200mV/AAC<br>10mV/AAC            | 5 to 100AAC                                  | 5A<br>100A                 | 0.8"<br>(20.32mm)  | N/A                               | Proprietary           | L104<br>L564           | —                          |
| MN251             | 2115.77             | 1mV/AAC                          | 0.5 to 240A                                  | 240AAC                     | 0.78"<br>(19.81mm) | N/A                               | Lead w/Banana Plug    | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| MN255             | 2115.81             | 100mV/AAC<br>10mV/AAC            | 0.1 to 24AAC<br>0.1 to 240AAC                | 10AAC<br>100AAC            | 0.78"<br>(19.81mm) | N/A                               | Lead w/Banana Plug    | L101<br>L102<br>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<br>L102<br>L562   | Must use adapter # 2118.46 |
| MN373             | 2116.28             | 1000mV/Aac<br>10mV/Aac                         | 0.01 to 2.4Aac<br>0.1 to 200Aac                               | 1Aac<br>100Aac                     | 0.78" (19.8mm)  | N/A                           | Lead w/Banana Plug | L101<br>L102<br>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<br>L102<br>L562   | Must use adapter # 2118.46 |
| MN379             | 2153.01             | 200mV/Aac<br>10mV/Aac                          | 5Aac<br>100Aac  | 5Aac<br>100Aac                     | 0.78" (19.8mm)  | N/A                           | Lead w/Banana Plug | L101<br>L102<br>L562   | Must use adapter # 2118.46 |
| SR193-BK          | 2140.33             | 1mV/Aac  | 1 to 1200A  | 1000Aac                            | 2" (50.8mm)     | N/A                           | Proprietary        | L104<br>L564           | —                          |
| SR604             | 2113.44             | 1mA/Aac  | 0.1 to 1000A  | 1000Aac                            | 2.05" (52.07mm) | N/A                           | Lead               | L111                   | —                          |
| SR661             | 2113.49             | 1mV/Aac<br>10mV/Aac<br>100mV/Aac               | 1000Aac<br>100Aac<br>10Aac                                    | 1000Aac<br>100Aac<br>10Aac         | 2.13" (54.1mm)  | N/A                           | BNC                | L101<br>L102<br>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<br>L102<br>L562   | Must use adapter # 2118.46 |
| SR759             | 2116.33             | 1000mV/Aac<br>100mV/Aac<br>10mV/Aac<br>1mV/Aac | 1mA to 1Aac<br>10mA to 10Aac<br>0.1 to 100Aac<br>1 to 1000Aac | 1Aac<br>10Aac<br>100Aac<br>1000Aac | 2.05" (52.07mm) | 1.96 x 0.19" (49.78 x 4.83mm) | Lead w/Banana Plug | L101<br>L102<br>L562   | Must use adapter # 2118.46 |



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

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