

Statement of Compliance

Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments certifies that this instrument has been calibrated using standards and instruments traceable to international standards.

We guarantee that at the time of shipping your instrument has met its published specifications.

An NIST traceable certificate may be requested at the time of purchase, or obtained by returning the instrument to our repair and calibration facility, for a nominal charge.

The recommended calibration interval for this instrument is 12 months and begins on the date of receipt by the customer. For recalibration, please use our calibration services. Refer to our repair and calibration section at **www.aemc.com**.

Serial #: _____

Catalog #: 2113.72/2113.73/2113.74/2113.75

Model #: AL24-2500/AL36-2500/AL24-5000/AL36-5000

Please fill in the appropriate date as indicated:

Date Received: _____

Date Calibration Due: _____



Chauvin Arnoux[®], Inc.
d.b.a AEMC[®] Instruments
www.aemc.com

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 **Warning** 

These safety warnings are provided to ensure the safety of personnel and proper operation of the instrument.

- Read the instruction manual completely and follow all the safety information before attempting to use or service this instrument.
- Use caution on any circuit: Potentially high voltages and currents may be present and may pose a shock hazard.
- Read the specifications section prior to using the probes. Never exceed the maximum voltage ratings given.
- Safety is the responsibility of the operator.
- For maintenance, use only original replacement parts.
- NEVER open the back of the instrument while connected to any circuit or input.
- ALWAYS inspect the instrument and leads prior to use. Replace any defective parts immediately.
- NEVER use the Simple Logger® AmpFlex® Current Probes on electrical conductors rated above 600V in overvoltage Category III (CAT III).

International Electrical Symbols



This symbol signifies that the loggers are protected by double or reinforced insulation. Use only specified replacement parts when servicing the instrument.



This symbol signifies CAUTION! and requests that the user refer to the user manual before using the instrument.

Receiving Your Shipment

Upon receiving your shipment, make sure that the contents are consistent with the packing list. Notify your distributor of any missing items. If the equipment appears to be damaged, file a claim immediately with the carrier and notify your distributor at once, giving a detailed description of any damage.

Packaging

The AmpFlex® Current Probes include the following:

- User manual
- One 9V battery
- 6 ft RS-232 cable

Specifications

ELECTRICAL

Number of Channels: 1

Current Ranges: 2

Input: AL24/36-2500 - 250/2500 Arms (internally selectable)
AL24/36-5000 - 500/5000 Arms (internally selectable)

Input Connection: Permanent Flexible Sensor

***Accuracy:** <12.5% of Scale 1% of Reading + 2 x Resolution
>12.5% of Scale 1% of Reading + Resolution

Resolution:

AL24/36-2500: 250 Arms

Scale Range	Maximum Input	Resolution
100%	250 Arms	1 Arms
50%	125 Arms	0.5 Arms
25%	62.5 Arms	0.25 Arms
12.5%	31.25 Arms	0.125 Arms

AL24/36-2500: 2500 Arms

Scale Range	Maximum Input	Resolution
100%	2500 Arms	10 Arms
50%	1250 Arms	5 Arms
25%	625 Arms	2.5 Arms
12.5%	312.5 Arms	1.25 Arms

AL24/36-5000: 500 Arms

Scale Range	Maximum Input	Resolution
100%	500 Arms	2 Arms
50%	250 Arms	1 Arms
25%	125 Arms	0.5 Arms
12.5%	62.5 Arms	0.25 Arms

AL24/36-5000: 5000 Arms

Scale Range	Maximum Input	Resolution
100%	5000 Arms	20 Arms
50%	2500 Arms	10 Arms
25%	1250 Arms	5 Arms
12.5%	625 Arms	2.5 Arms

Sample Rate: 4096/hr max.

Data Storage: 8192 readings

Data Storage Technique: (TXR™) Time Extension Recording™

Power: 9V Alkaline NEDA 1604, 6JF22, 6LR61

Battery Life Recording: 6 months continuous recording @ 25°C

Output: RS-232 via 5-pin circular connector; 1200 Bps

INDICATORS

Operation Mode Indicator: One Red LED

- Single Blink: STANDBY mode
- Double Blink: RECORD mode
- No Blinks: OFF mode
- Continuously On: Overload condition

CONTROLS

Operation Mode: Push Button, Internal Range: Slide Switch

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

MECHANICAL

Size: 2-1/2 x 1-9/16 x 4-1/2" (63.5 x 40.64 x 114.3mm)

Maximum Conductor Size: 24" length: 8" Ø; 36" length: 12" Ø

Case: Weatherproof NEMA4X, IP65 rated

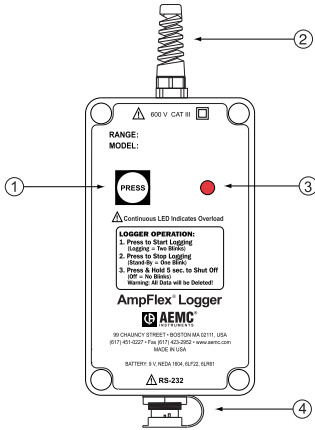
SAFETY Working Voltage: IEC 1010-1, 600V, CAT III

ORDERING INFORMATION

Simple Logger® AmpFlex® Model AL24-2500.....	Cat. #2113.72
Simple Logger® AmpFlex® Model AL36-2500.....	Cat. #2113.73
Simple Logger® AmpFlex® Model AL24-5000.....	Cat. #2113.74
Simple Logger® AmpFlex® Model AL36-5000.....	Cat. #2113.75

*Reference condition: 23°C ± 3K, 20 to 75% RH, Frequency 45-3000Hz, No AC external magnetic field, DC magnetic field ≤ 40A/m, centered conductor, battery voltage 9V ± 10%.

Features



- (1) Start/Stop Button
- (2) Flexible Sensor Input
- (3) Operation Mode Indicator
- (4) RS-232 Interface

Indicators and Buttons

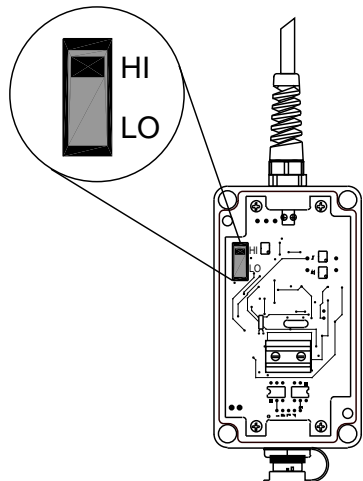
The AmpFlex[®] Logger has only one button and one indicator. Both are located on the front panel.

The button is used to start and stop recordings and to turn the logger on and off. The red LED indicates the status of the logger; **OFF**, **STANDBY** or **RECORDING**. When the LED is lit continuously, it indicates an overload condition.

Inputs and Outputs

The top of the logger incorporates a permanent flexible sensor attached by a 5 ft lead.

The bottom has a 5-pin circular connector used for serial data transmission from the logger to your computer.



Range Selection

Before operating, determine the maximum current to be logged. Remove the back cover and select the appropriate range as shown.

Battery Installation

Under normal conditions, the battery will last up to 6 months of continuous recording unless the logger is restarted very frequently.

In the OFF mode, the logger puts almost no load on the battery. Use the OFF mode when the logger is not in use. Replace the battery every six months in normal use.

If the logger will be used at temperatures below 32°F (0°C) or is frequently turned on and off, replace the battery every three to four months.

1. Make sure your logger is turned off (no light blinking) and all inputs are disconnected.
2. Turn the logger upside down. Remove the four Phillips head screws from the base plate, then take off the base plate.
3. Locate the two-wire (red/black) battery connector and attach the 9V battery to it. Make sure that you observe polarity by lining up the battery posts to the proper terminals on the connector.
4. Once the connector is plugged onto the battery, insert the battery into the holding clip on the circuit board.
5. If the unit is not in record mode after installing the new battery, disconnect it and press the button twice then reinstall the battery.
6. Reattach the base plate using the four screws removed in step two.

Your logger is now recording (LED blinking). Press the test button for 5 seconds to stop the instrument.

Note: For long-term storage, remove the battery to prevent discharge effects.

Operation

Position the AmpFlex® sensor around the conductor to be measured. Be sure that the positioning of the logger sensor does not violate the minimum allowable bending radius of 0.75 inches (19mm).

Next, press the start/stop button on the front of the unit to begin the recording session. The indicator light will double blink to indicate that the recording session has started. When the recording session has been completed, press the start/stop button to end the recording. The indicator light will single blink to indicate that the recording session has ended and the unit is in stand-by. Remove the logger from the conductor and transport it to the computer for data downloading. See the User Guide for downloading instructions.

SOFTWARE

MINIMUM COMPUTER REQUIREMENTS

Processor: 486 or higher

RAM Storage: 8MB

Hard Drive Space: 8MB for application, approx. 400K for each stored file
Environment: Windows® 7, 8, 8.1, 10

Port Access: (1) 9-pin serial port and (1) parallel port for printer support

INSTALLATION

Your Simple Logger® software is supplied on a USB drive. To install the program, perform the following steps:

Auto Run Disabled: If Auto Run is disabled, insert the Simple Logger® drive into the USB slot, then select **Run** from the **Start Menu**. In the dialog box that appears, type: **D:\setup**, then click the **OK** button.

NOTE: In this example, your drive is assumed to be drive letter D. If this is not the case, substitute the appropriate drive letter.

Auto Run Enabled: If Auto Run is enabled, insert the Simple Logger® drive into the USB slot and follow the on-screen prompts to complete the setup.

- Select Simple Logger 6.xx
- Select Acrobat Reader to install Adobe Reader
- Select Explore Drive to view the User Guide, Simple Logger® Catalog or user specific manuals in PDF format.

To view the documents included on the drive, you must have Acrobat Reader installed on your machine. If you do not have it installed, you can install it from the Simple Logger® Software drive.

Installing Acrobat Reader: Select **Run** from the **Start Menu**. In the dialog box that appears, type: **D:\Acrobat\setup**, then click **OK**.

NOTE: In this example, your drive is assumed to be drive letter D. If this is not the case, substitute the appropriate drive letter.

USING THE SOFTWARE

Launch the software and connect the RS-232 cable from your computer to the logger.

Note: The first time the program is launched you will need to select a language.

Select "Port" from the menu bar and select the Com port you will be using (see your computer manual). Once the software automatically detects the baud rate, the logger will communicate with the computer. (ID number of the logger and number of points recorded displayed).

Depending on the selected range, "ALXX-2500" or "ALXX-250" will be displayed and automatically scale the graph accordingly.

Cleaning

The body of the logger should be cleaned with a cloth moistened with soapy water. Rinse with a cloth moistened with clean water. Do not use solvent.

Simple Logger[®] AmpFlex[®] Current Probes

Repair and Calibration

To ensure that your instrument meets factory specifications, we recommend that it be submitted to our factory Service Center at one-year intervals for recalibration, or as required by other standards or internal procedures.

For instrument repair and calibration:

Contact our Service Center for a Customer Service Authorization number (CSA#). This will ensure that when your instrument arrives, it will be tracked and processed promptly. Please write the CSA# on the outside of the shipping container. If the instrument is returned for calibration, we need to know if you want a standard calibration, or a calibration traceable to N.I.S.T. (includes calibration certificate plus recorded calibration data).

Chauvin Arnoux[®], Inc. • d.b.a. AEMC[®] Instruments
15 Faraday Drive • Dover, NH 03820 USA

Tel: (800) 945-2362 (Ext. 360) • (603) 749-6434 (Ext. 360)

Fax: (603) 742-2346 or (603) 749-6309

repair@aemc.com • (or contact your authorized distributor)

Costs for repair, standard calibration, and calibration traceable to N.I.S.T. are available.

NOTE: All customers must obtain a CSA# before returning any instrument.

Technical and Sales Assistance

If you are experiencing any technical problems, or require any assistance with the proper operation or application of your instrument, please call or e-mail our support hotline:

Phone: (800) 343-1391 • (508) 698-2115 • techsupport@aemc.com • www.aemc.com

NOTE: Do not ship instruments to our Foxborough, MA address.

Limited Warranty

The AmpFlex[®] Current Probes are warranted to the owner for a period of two years from the date of original purchase against defects in manufacture. This limited warranty is given by AEMC[®] Instruments, not by the distributor from whom it was purchased. This warranty is void if the unit has been tampered with, abused or if the defect is related to service not performed by AEMC[®] Instruments. For full and detailed warranty coverage, read the Warranty Coverage Information, available at www.aemc.com.

What AEMC[®] Instruments will do: If a malfunction occurs within the warranty period, you may return the instrument to us for repair, provided we have your warranty registration information on file or a proof of purchase. AEMC[®] Instruments will, at its option, repair or replace the faulty material.

Warranty Repairs

What you must do to return an Instrument for Warranty Repair:

First, request a Customer Service Authorization Number (CSA#) from our Service Department, then return the instrument along with the signed CSA Form. Write the CSA# on the outside of the shipping container. Return the instrument to:

Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments
Service Department

15 Faraday Drive • Dover, NH 03820 USA

Tel: (800) 945-2362 (Ext. 360) • (603) 749-6434 (Ext. 360)

Fax: (603) 742-2346 or (603) 749-6309

repair@aemc.com

Caution: To protect yourself against in-transit loss, insure your returned material.

NOTE: All customers must obtain a CSA# before returning any instrument.



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