User Manual ENGLISH



AC/DC Current Probes Models -MR525 & MR526



CURRENT MEASUREMENT PROBES





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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 the instrument's 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 <u>www.aemc.com/calibration</u>.

Serial #:

Catalog #: 1200.81 / 1200.83

Model #: MR525 / MR526

Please fill in the appropriate date as indicated:

Date Received: ____

Date Calibration Due:



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Thank you for purchasing an AEMC[®] Instruments **AC/DC Current Probe Model MR525 or MR526**.

For the best results from your instrument and for your safety, you must read the enclosed operating instructions carefully and comply with the precautions for use. Only qualified and trained operators should use this product.

1.1 SYMBOLS AND DEFINITIONS

| \triangle | WARNING , risk of DANGER ! The operator must refer to these instructions whenever this symbol appears |
|--------------|--|
| 4 | Refers to a Type A current sensor per IEC/EN 61010-2-032 or BS EN 61010-2-032. This symbol signifies that application around and removal from conductors carrying dangerous voltages is authorized |
| | Equipment is protected by double insulation |
| -+ | Battery |
| ţ | USB |
| i | Useful information or tip |
| $\hat{\Box}$ | Direction of the current |
| 5 | The instrument follows recycling directives |
| CE | The instrument complies with US directives |
| X | Sorting for the recycling of electric and electronic waste |

1.2 DEFINITION OF MEASUREMENT CATEGORIES (CAT)

- **CAT IV:** Corresponds to measurements performed at the primary electrical supply (< 1000 V). *Example: primary overcurrent protection devices, ripple control units, and meters.*
- **CAT III:** Corresponds to measurements performed in the building installation at the distribution level. *Example: hardwired equipment in fixed installation and circuit breakers.*
- **CAT II:** Corresponds to measurements performed on circuits directly connected to the electrical distribution system. *Example: measurements on household appliances and portable tools.*

1.3 PRECAUTIONS FOR USE

These instructions are intended to ensure the safety of users and proper operation of the instrument. This instrument is compliant with the IEC 61010-2-032 or BS EN 61010-2-032 safety standards for voltages of 300 V in measurement CAT IV or 600 V in CAT III.

Failure to observe these safety instructions may result in electric shock, fire, explosion, and destruction of the instrument and installations.

- The operator and/or responsible authority must read and understand the various precautions to take when using the instrument.
- Do not use the instrument on networks that exceed the instrument's specifications for voltage or category.
- Never exceed the protection limits stated in the specifications.
- Observe the environmental conditions of use, including relative humidity, altitude, degree of pollution, and location of use.
- Do not use the instrument if it appears to be damaged, incomplete, or improperly closed.
- Before each use, check the condition of the insulation on the leads, housing, and accessories. Any component with deteriorated insulation (even partially) must be set aside for repair or scrapping.
- When handling the instrument, keep your fingers behind the physical guard.
- Use suitable personal protective equipment when appropriate.
- All troubleshooting and metrological checks must be performed by competent and accredited personnel.

1.4 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 with a detailed description of any damage. Save the damaged packing container to substantiate your claim.

1.5 ORDERING INFORMATION

AC/DC Current Probe Model MR525.....Cat. #1200.81 Includes 9 V battery, multi-language safety data sheet, and user manual.

AC/DC Current Probe Model MR526.....Cat. #1200.83 Includes 9 V battery, multi-language safety data sheet, and user manual.

1.5.1 Accessories / Replacement Parts

| Cable – 6 ft USB type A to Micro type B | Cat. #2138.66 |
|---|---------------|
| Adapter – US Wall plug to USB | Cat. #2153.78 |

2. PRODUCT FEATURES

2.1 DESCRIPTION

The Models MR525 and MR526 are clamp-on current probes that measure DC currents up to 1400 A, AC currents up to 1000 ARMS (1400 APEAK), and combined AC+DC currents without opening the circuit. They indicate the shape and amplitude of the current measured in the form of a voltage.

These instruments can be used with a multimeter, wattmeter, recorder, and other instruments. They can be powered by a battery or with 5 VDc via the optional micro-USB cable.

The MR525 and MR526 include the following features:

- Range overage indicator
- Power supply indicator
- Zero adjustment
- Auto Standby feature
- One or two ranges, depending on the model
 - 1 mV/A (MR525 and MR526)
 - 10 mV/A (MR526 only)
- Micro-USB connector for an external power supply

2.2 INTERFACE

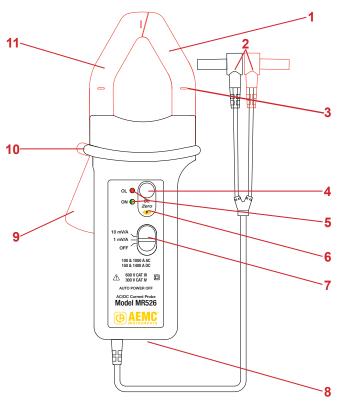


Figure 1 (MR526 shown)

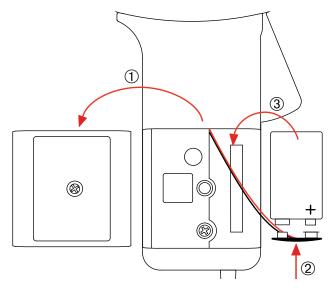
| Item | Function |
|------|--|
| 1 | Fixed jaw (does not move when the trigger is pressed) |
| 2 | Banana plugs (4 mm) |
| 3 | Arrow indicating current flow direction |
| 4 | DC Zero button |
| 5 | OL (overload) and ON indicators. ON is green when Auto Standby is enabled, and it is yellow when disabled. |
| 6 | P (Permanent mode) indicator. Hold down the DC Zero button while turning ON the instrument enables Permanent mode. In this mode, Auto Standby is disabled (see § 3.4). |
| 7 | Slide switch (2-position for MR525, 3-position for MR526) |
| 8 | USB port |
| 9 | Trigger |
| 10 | Hand guard |
| 11 | Mobile jaw (moves when the trigger is pressed) |

3. OPERATION

3.1 BATTERY INSTALLATION

NOTE: Before changing the batteries, set the switch to **OFF**, and remove the clamp from the circuit under measurement.

- 1. Using a screwdriver, remove the battery compartment cover (1) from the back of the housing (see Figure 2).
- 2. Connect the battery to the snap-on connector (2) while making sure that the polarity of the battery terminals match the snap-on connector.
- 3. Place the battery into the battery compartment (3).
- 4. Replace the battery compartment cover, and screw it onto the housing.





3.2 EXTERNAL POWER (OPTIONAL)

For long-term measurements, you can connect the clamp to external power via any micro-USB adapter that delivers 100 mA or more. If the external power is disconnected, the clamp will automatically switch to battery operation.

Between the type B micro-USB connector and the measurement output, the isolation is 600 V CAT III. This enables you to safely connect the clamp to measuring instruments with uninsulated inputs. The type B micro-USB connector must not contact conductors or uninsulated parts at dangerous voltage.

When operating on external power, the Auto Standby feature is disabled. The color of the ON indicator signals whether automatic standby is enabled (green) or disabled (yellow).

3.3 TURNING ON THE INSTRUMENT

Turn on the clamp by pushing the slide switch to the 1 mV/A or 10 mV/A setting:

- 1 mV/A corresponds to the 1400 A range (MR525 and MR526)
- 10 mV/A corresponds to the 150 A range (MR526)
- The green ON indicator should light up:
- If the indicator blinks, the battery has less than 4 hours remaining.
- If the indicator fails to light up, replace the battery (see § 5.2).

3.4 AUTO STANDBY

After 10 minutes of operation without any user action (such as pressing the DC Zero button), the clamp will automatically enter Auto Standby mode. In this mode, the ON indicator will turn OFF.

To reactivate the clamp, press the DC Zero button, or change the switch to any setting other than OFF.

To disable automatic standby, press and hold the DC Zero when turning the instrument ON. The ON indicator will blink to indicate that the request has been applied. When you release the DC Zero button, the indicator will glow steady yellow.

3.5 DC ZERO ADJUSTMENT

NOTE: You must adjust the DC Zero before a series of measurements and whenever the instrument reconnects after a disconnection.

- With the clamp connected to the measuring instrument, select the desired measurement range (or sensitivity) with the switch.
- Make sure that there is no conductor in the clamp and that the jaws are closed correctly.
- Press the DC Zero button.
- The OL indicator will light up for approximately three seconds to indicate that the zero adjustment is in progress.
- The OL indicator will turn off to indicate that the operation has succeeded.
- If the OL indicator stays on, the zero could not be adjusted.
- Before repeating the operation, check that the jaws are closed correctly (air gaps clean, no dust, no oxidation, etc.) and that there is no conductor in the clamp.
- Press the DC Zero button again.
- In the event of failure, or if the clamp is switched off (selector set to OFF), the instrument keeps the last successful DC Zero adjustment.



WARNING: If the measurement range (or sensitivity) is changed, the DC Zero must be adjusted before any further measurements are made.

3.6 MEASUREMENTS

3.6.1 Making a Measurement

After adjusting the DC Zero:

- 1. Press the clamp's trigger to open the jaws.
- 2. Clamp the jaws around the conductor to be measured. Use the centering marks on the jaws to position the clamp around the conductor. If the measurement is for a power calculation, ensure that the arrow on the clamp jaws (see Figure 3) points in the direction of the current flow:

source 🖂 load

- 3. Release the trigger while ensuring that the jaws are completely and correctly closed.
- 4. Observe the measurement displayed on the instrument.
- If the OL indicator turns on, the current is too high to be measured. If you are using the MR526 and the sliding switch is set to the 10 mV/A range, change the setting to 1 mV/A.

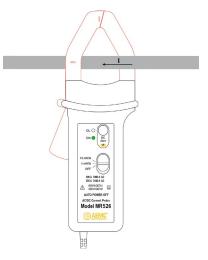


Figure 3 (MR526 shown)

3.6.2 Converting to Current

Both models can measure current up to 1400 A with 1 mV corresponding to 1 A. In addition, the MR526 provides a second measurement range up to 150 A with 10 mV corresponding to 1 A.

To convert the clamp output to current, divide the voltage reading on the connected measuring instrument by the V/A coefficient.

 $\frac{\text{Reading (mV)}}{\text{Range (mV/A)}} = \text{Current (A)}$ $\frac{1400 \text{ A Range (1 mV): } \frac{100 \text{ mV}}{1 \text{ mV/A}} = 100 \text{ A}$ $150 \text{ A Range (10 mV): } \frac{100 \text{ mV}}{10 \text{ mV/A}} = 10 \text{ A}$

4. SPECIFICATIONS

4.1 REFERENCE CONDITIONS

| Quantities of Influence | Reference Conditions | |
|------------------------------------|-----------------------------------|--|
| Temperature | 73 °F ± 9 °F (23 °C ± 5 °C) | |
| Relative humidity | (20 to 75) % RH | |
| Position of the conductor | Centered on the marks of the jaws | |
| Measurement frequency | DC to 65 Hz sine wave | |
| External electrical field | Zero | |
| External DC magnetic field (earth) | <40 A/m | |
| External AC magnetic field | Zero | |
| Input impedance | ≥1 MΩ and ≤100 pF | |

The intrinsic uncertainty is the error defined under the reference conditions. It is expressed as a percentage of the output signal (R) plus an offset in mV: \pm (a % R + b)

4.2 ELECTRICAL SPECIFICATIONS

4.2.1 Electrical Specifications, 1 mV/A Sensitivity

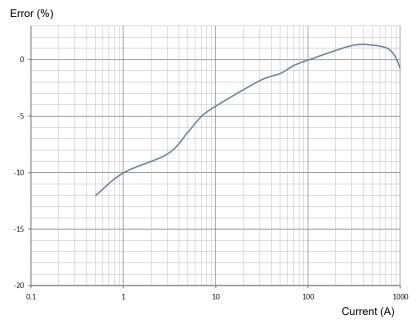
Output impedance: 215 Ω

| Specified Measurement Range | (0.5 to 100) Aac/dc | (100 to 800) Aac/dc | (800 to 1000) Aac/Dc | (1000 to 1400) ADC |
|-----------------------------------|------------------------|------------------------|-------------------------|-----------------------|
| Intrinsic uncertainty | ≤ ±(2 % R + 1.5 mV) | ≤ ±2.5 % R | ≤ ±4 % R | ≤ ±5 % R |

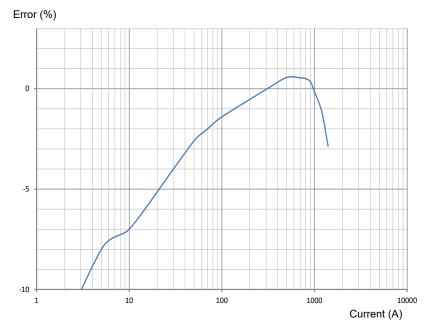
Phase error (45 to 65) Hz

| Specified Measurement Range | (3 to 200) AAC | (200 to 1000) AAC |
|--------------------------------|----------------|-------------------|
| Phase shift | ≤ -2 ° | ≤ -1.5 ° |

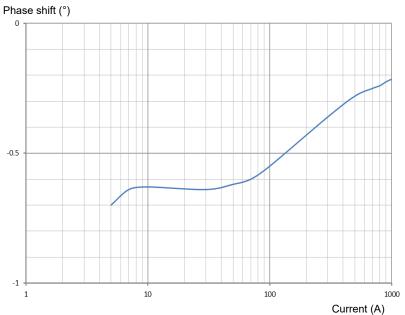
Typical amplitude error curve at 60 Hz



Typical amplitude error curve in DC



Typical phase error curve at 60 Hz

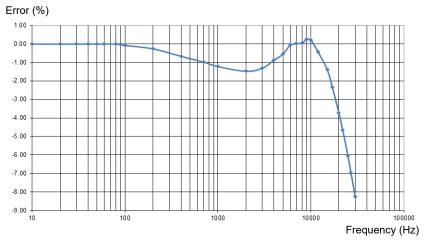


4.2.2 Frequency Specifications, 1 mV/A Sensitivity

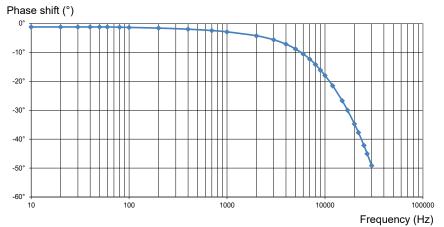
Bandwidth -3 dB: DC to 30 kHz

| Frequency | 50 Hz | 400 Hz | 1 kHz | 10 kHz |
|---------------------|----------|---------|---------|--------|
| Insertion impedance | <0.01 mΩ | 0.05 mΩ | 0.14 mΩ | 3.4 mΩ |

Typical amplitude error versus frequency curve at 60 A



Typical phase versus frequency error curve at 60 A



4.3 ELECTRICAL SPECIFICATIONS, 10 mV/A SENSITIVITY (MR526)

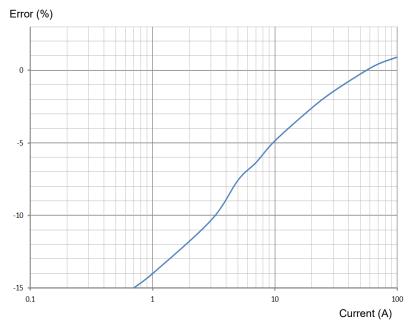
Output impedance: 215 Ω

| Specified Measure- | (0.5 to 40) | (40 to 100) | (100 to 150) |
|-----------------------|-------------------|-------------|--------------|
| ment Range | Aac/Dc | Aac/dc | Adc |
| Intrinsic uncertainty | ≤ ±(3 % R + 8 mV) | ≤ ±1.5 % R | ≤ ±1.5 % R |

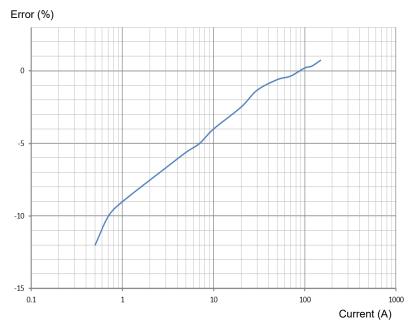
Phase error (45 to 65 Hz)

| Specified | (1 to 100) | |
|-------------------|------------|--|
| Measurement Range | AAC | |
| Phase shift | ≤ -2 ° | |

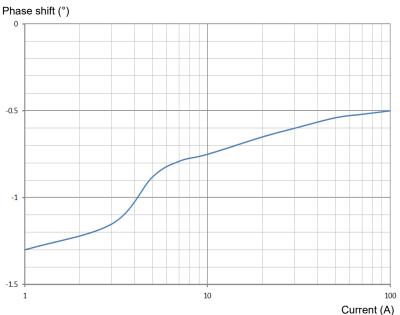
Typical amplitude error vs current curve at 60 Hz



Typical amplitude error vs current curve in DC



Typical phase vs current error curve at 60 Hz



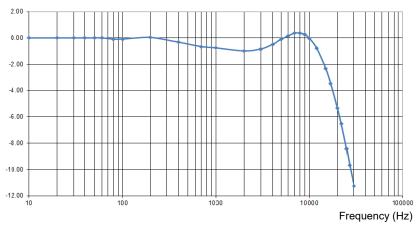
Frequency Specifications, 10 mV/A Sensitivity

Bandwidth -3 dB: DC to 30 kHz

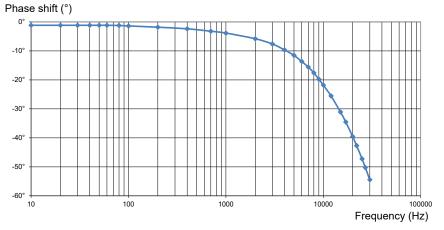
| Frequency | 50 Hz | 400 Hz | 1 kHz | 10 kHz |
|------------------------|----------|---------|---------|--------|
| Insertion impedance | <0.01 mΩ | 0.05 mΩ | 0.14 mΩ | 3.4 mΩ |

Typical amplitude error versus frequency curve at 30 A

Error (%)



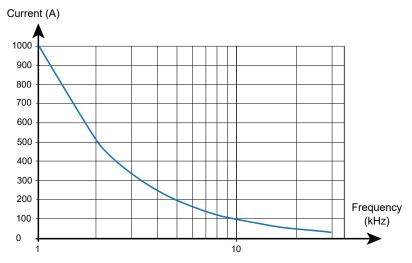
Typical phase versus frequency error curve at 30 A



4.4 OPERATING LIMITS

- In DC: 3000 A permanent
- In AC: 1000 A permanent up to 1 kHz from 1 kHz, IMAX = 1000/f (kHz)
- Conductor temperature: ≤194 °F, 230 °F peak (90 °C, 110 °C peak)
- Temperature of the jaws: ≤176 °F (80 °C)

Curve of derating versus frequency



4.5 VARIATIONS IN THE RANGE OF USE

| Quantity of influence | Range of influence | Error in % of reading | |
|--|---|--|--|
| | | Typical | Maximum |
| Temperature | (14 to 131) °F (-10 to +55) °C | | Drift of the zero ±55.56 mA/°F (±100 mA/°C) Drift of the gain |
| Relative humidity | (10 to 85) % RH | | 3 % 0.5 % |
| Frequency | from (10 to 400) Hz from 400 Hz to 7 kHz from (7 to 30) kHz | | 1 % 3.5 % see curves |
| Position of the conductor 20 mm in diameter | | | 0.5 % |
| Adjacent conductor carrying a 50 Hz AC current | Conductor 23 mm from the clamp | | 10 mA/A |
| External 400 A/m field at 50 Hz | Cable centered | | 1.3 A |
| Common mode rejection | 600 V between the jacket and the secondary | | 90 dB A/V at 50 Hz |
| Remanence | | 100 ADC: 2.8 A 200 ADC: 3.5 A 400 ADC: 5 A 800 ADC: 5.3 A 1200 ADC: 5.7 A 1400 ADC: 5.8 A | |

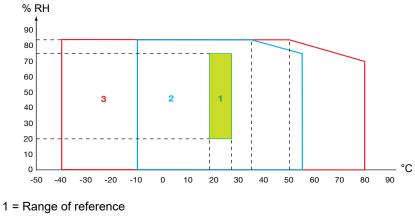
4.6 POWER SUPPLY

The instrument is powered by a 9 V battery (type 6LR61, 6LF22, or NEDA 1604). The average battery life is 50 hours with an alkaline battery.

The instrument can also be powered by an external supply (5 VDc, 100 mA) via the type B micro-USB connector.

4.7 ENVIRONMENTAL CONDITIONS

The instrument must be used in the following environmental conditions.



- 2 = Operating range
- 3 = Storage range

Indoor use

Degree of pollution: 2

Altitude: <6500 ft (2000 m)

Transport altitude: ≤40,000 ft (12,000 m)

4.8 MECHANICAL SPECIFICATIONS

Dimensions (L x W x H): 9.3 x 3.8 x 1.7 in (237 x 97 x 44 mm)

Weight: 18.3 oz (520 g)

Cable: 4.9 ft (1.50 m)

Maximum Conductor Size:

Cables: One 1.54 in (39 mm) or two 1 in (25.4 mm)

Bus Bar: One 1.97 x 0.49 in (50 x 12.5 mm); two 0.98 x 0.2 in (50 x 5 mm); two 1.24 x 0.30 in (31.5 x 10 mm); or three 0.98 x 0.31 in (25 x 8 mm)

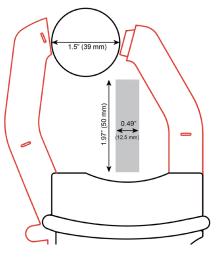


Figure 4

4.8.1 Housing Protection

Protection index:

- IP 40 per IEC 60529
- IK 06 per IEC 62262

Drop test per IEC/EN 61010-2-032 or BS EN 61010-2-032

4.9 INTERNATIONAL STANDARDS

The instrument is compliant with IEC/EN 61010-2-032 or BS EN 61010-2-032, 300 V in CAT IV or 600 V in CAT III.

Double or reinforced insulation

Type of current sensor per IEC/EN 61010-2-032 or BS EN 61326-1: 1 (type A)

4.10 ELECTROMAGNETIC COMPATIBILITY

The device is in conformity with standard IEC/EN 61326-1 or BS EN 61326-1.

5. MAINTENANCE



WARNING: Except for the battery, the instrument contains no parts that can be replaced by personnel who have not been specially trained and accredited. Any unauthorized repair or replacement of a part by an **equivalent** may gravely impair safety.

5.1 CLEANING

- Disconnect anything connected to the clamp.
- Use a soft cloth, dampened with soapy water.
- Rinse with a damp cloth and dry rapidly with a dry cloth or forced air.
- Do not use alcohol, solvents, or hydrocarbons.
- Keep the clamp jaws as clean as possible.

5.2 BATTERY REPLACEMENT

The battery must be replaced if the ON indicator remains unlit when the instrument is turned ON.

- Disconnect the instrument completely and set the switch to OFF.
- Remove the battery compartment cover from the instrument casing (see § 3.1).
- Remove the old battery.
- Insert the replacement battery into the snap-in battery connector, and place it into the battery compartment.
- Replace the battery compartment cover.



NOTE: Depleted batteries must not be treated as ordinary household waste. Take them to the appropriate collection point for recycling.

5.3 REPAIR AND CALIBRATION

To ensure that your instrument meets factory specifications, we recommend that the instrument be sent back 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:

You must contact our Service Center for a Customer Service Authorization Number (CSA#). Send an email to <u>repair@aemc.com</u> requesting a CSA#, you will be provided a CSA Form and other required paperwork along with the next steps to complete the request. Then return the instrument along with the signed CSA Form. 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).

 Ship To:
 Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments

 15
 Faraday Drive • Dover, NH 03820 USA

 Phone:
 (800) 945-2362 (Ext. 360) / (603) 749-6434 (Ext. 360)

 Fax:
 (603) 742-2346

 E-mail:
 repair@aemc.com

(Or contact your authorized distributor.)

Contact us for the costs for repair, standard calibration, and calibration traceable to N.I.S.T.

(i)

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

5.4 TECHNICAL ASSISTANCE

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

 Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments

 Phone:
 (800) 343-1391 (Ext. 351)

 Fax:
 (603) 742-2346

 E-mail:
 techsupport@aemc.com

 www.aemc.com

5.5 LIMITED WARRANTY

The instrument is warrantied 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.

Full warranty coverage and product registration is available on our website at <u>www.aemc.com/warranty.html</u>.

Please print the online Warranty Coverage Information for your records.

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 repair or replace the faulty material at our discretion.

REGISTER ONLINE AT: www.aemc.com/warranty.html

5.5.1 Warranty Repairs

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

First, send an email to <u>repair@aemc.com</u> requesting a Customer Service Authorization Number (CSA#) from our Service Department. You will be provided a CSA Form and other required paperwork along with the next steps to complete the request. Then return the instrument along with the signed CSA Form. Please write the CSA# on the outside of the shipping container. Return the instrument, postage or shipment pre-paid to:

> Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments 15 Faraday Drive, Dover, NH 03820 USA Phone: (800) 945-2362 (Ext. 360) (603) 749-6434 (Ext. 360) Fax: (603) 742-2346 E-mail: <u>repair@aemc.com</u>

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



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





08/24 99-MAN 100523 v06

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