AC/DC Current Probe Model MR520



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The AEMC® MR Series AC/DC Probes are professional AC/DC current probes designed to extend current measuring capabilities of DMMs, oscilloscopes and other instruments. They are built to the latest safety and performance standards, including the CE Mark and UL approval. Two different hook-shaped jaws are offered, both permitting the user to "pry" or "hook" onto cables (will accept 2 x 500MCM) or even onto small bus bars.

The MR Series probes use Hall effect technology and measure AC and DC current. The electronics and batteries are self-contained in the handles. The output of the AC/DC probes is 1mV/A and 10mV/A. The Model MR520 measures to 1000Aac/1500Aac.

There is no output filtering — True RMS with DC component measurements are possible. Phase shift is excellent, making the MR Series of current probes well suited for power and power quality applications.

Features

- Measurement range of 400A_{AC}/600A_{DC}
- Measurement range of 1000Aac/1500Adc
- Distinct jaw shapes to be used for hooking or prying around the conductor
- Auto-zero push button
- Conforms to EN 61010, 600V, Cat. III safety standard
- Low phase shift for power measurements

• mV output signals

- Designed for DMMs, recorders, oscilloscopes, power and harmonic meters
- CE Mark

Applications

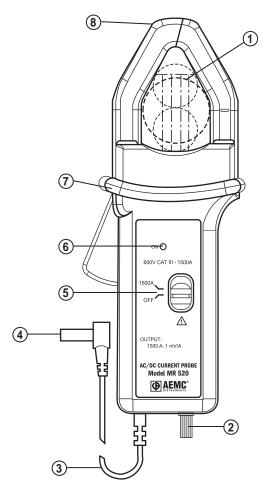
- DC motors
- Batteries
- · Automobile engine testing
- Power measuring quality analysis
- · Power load monitoring

Specifications

MODEL	MR520
ELECTRICAL	MINOZO
Nominal Range	1000Aac/1500Adc
Measurement Range	1 to 1500A
Output Signal	1 to 1300A
Accuracy (1500Apc Range)	IIIIV/A
1 to 100A	1.5% of Reading ± 1A
100 to 800A	2.5% of Reading
800 to 1000A	4% of Reading
1000 to 1400Apc only	4% of Reading
Phase Shift (1500Apc Range)	170 0. 11044
10 to 200A	45 to 65Hz: ±2.5°
200 to 1000A	≤1.5°
Overload	2000Aac and 3000Abc continuous up to 1kHz
Frequency Range	DC to 10kHz @ -3dB
Load Impedance	>100kΩ/100pF
Working/Common Mode Voltage	600Vrms
Battery	9V Alkaline
•	(Approx. 120 hours life)
Output Termination	5 ft Lead
MECHANICAL	
Operating Temperature	14° to 131°F (-10° to 55°C)
Storage Temperature	-40° to 176°F (-40° to 80°C)
Operating Relative Humidity	10 to 35°C 90% \pm 5% RH (without condensation), 40 to 55°C 70% \pm 5% RH (without condensation)
Zero Adjustment	10 turn knob at base of case
Jaw Opening	1.55" (40mm)
Maximum Conductor Size	One 1.5" (39mm) or two 0.95" (24mm) or two bus bars 1.96 x 0.19" (50 x 5mm) or one bus bar 1.96 x 0.49" (50 x 12.5mm)
Dimensions	9.31 x 3.82 x 1.73" (236 x 97 x 44mm)
Weight	1.06 lb (480g)
Polycarbonate Material	Handles: Polycarbonate + ABS, Gray, UL94 VO. Jaws: Polycarbonate, Red, UL94 VO
SAFETY	
Electrical	EN 61010-2-32
CE Mark	Yes

Note: Reference conditions: 18°C to 28°C, 20 to 75% RH, external magnetic field < 40A/m, no DC component, no external current carrying conductor, test sample centered, $1M\Omega \le 100pF$ load, zero adjustment (DC only) DC to 65Hz, battery voltage 9V \pm 0.1V.





- 1. Conductor
- 2. Zero adjustment knob
- 3. Lead, 5 ft (1.5m)
- 4. Safety banana plug ø 4mm
- 5. Two-position range selection switch:
 - On/Off
 - 1500A (1mV/A)

- 6. Green light (on when battery voltage ≥6,5V)
- 7. Protective non-slip guard
- 8. Jaws



Leads: Double/reinforced 5 ft (1.5m) lead with safety 4mm banana plug

ORDERING INFORMATION	CATALOG NO.
AC/DC Current Probe Model MR520 (Lead – 1mV/A – 1500A max)	Cat. #1200.71
Includes a user manual	
Accessories (Optional)	
Banana plug adaptor (to nonrecessed plug)	Cat. #1017.45
Banana/BNC connector XF-SS (4mm plug adaptor)	Cat. #2111.32





Contact Us

United States & Canada:

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118 www.aemc.com

Customer Support – for placing an order, obtaining price & delivery:

customerservice@aemc.com

Sales Department – for general sales information:

sales@aemc.com

Repair and Calibration Service – for information on repair & calibration, obtaining a user manual:

repair@aemc.com

Technical and Product Application Support – for technical and application support:

techinfo@aemc.com

Webmaster – for information regarding www.aemc.com:

webmaster@aemc.com

South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments 15 Faraday Drive Dover, NH 03820 USA (978) 526-7667 • Fax (978) 526-7605 export@aemc.com www.aemc.com

All other countries:

Chauvin Arnoux SCA 190, rue Championnet 75876 Paris Cedex 18. France 33 1 44 85 45 28 • Fax 33 1 46 27 73 89 info@chauvin-arnoux.com www.chauvin-arnoux.com

