

The Model SR604 is designed for use in industrial and utility environments. The unique ergonomic design allows it to easily clamp onto cables or small bus bars. It is built to the highest safety and performance standards including the CE Mark and is UL approved for Canada and United States.

Excellent transformation and low phase shift, plus a broad frequency response, permit accurate measurements of current for power and power quality measurements. The high quality magnetic cores and uniform windings provide sensitivity for very low level current measurements, as well as measurements up to 1200AAc. The Model SR604 works as a traditional current transformer (with a ratio of 1000:1) and provides current outputs in mA/A for use on DMMs, power and harmonic meters, data loggers, recorders or instruments with current ranges.

## **Features**

- Measurement range of 100mA to 1200Aac
- Large jaw opening accommodates conductors up to two 500MCM conductors
- Ergonomic design and easy operation
- Conforms to EN 61010, 600V Cat. III safety standard
- Low phase shift for power measurements
- Available with mA output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- UL approved for Canada and United States
- Double Insulation
- CE Mark

# **AEMC**<sup>®</sup> -

**Applications** 

Low industrial loads

Power load monitoring

Waveform analysis

Power quality measuring

Measuring around cable bundles

## **Specifications**

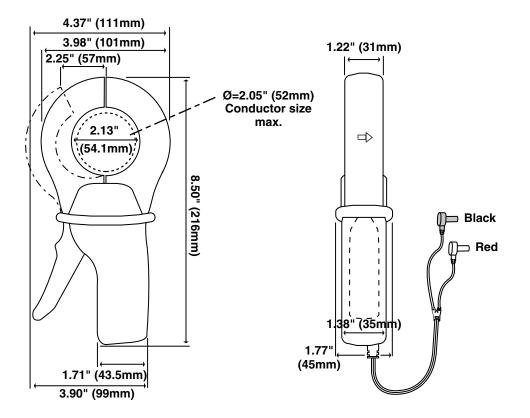
MODEL	SR604*
ELECTRICAL	
Nominal Range	1000A
Measurement Range	0.1 to 1200A
Transformation Ratio	1000: 1
Output Signal	1mAac/Aac: (1Aac @ 1000A)
Accuracy (1000A Range)	
0.1 to 10A	≤3% + 0.1A
50A	1.5% of Reading
200A	0.75% of Reading
1000A	0.5% of Reading
1200A	0.5% of Reading
Phase Shift (1000A Range)	
50A	1.5°
200A	0.75°
1000A	0.5°
1200A	0.5°
Overload	1200A for 40 min 0N, 20 min 0FF
Frequency Range	30Hz to 5kHz; current derating
	above 1kHz using the formula:
Lood Immedance	1000A x 1/F (in kHz)
Load Impedance Working/Common	$5\Omega$ max
Mode Voltage	600V Cat. III
Output Termination	Lead
MECHANICAL	
Operating Temperature	-14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Operating Relative Humidity	0 to 85% @ 35°C
Jaw Opening	2.25" (57mm) max
Maximum Conductor Size	2.05" (52mm)
Maximum Bus Bar Size	One 1.95 x 0.19" (50 x 5mm)
Dimensions	4.37 x 8.50 x 1.77" (111 x 216 x 45mm)
Weight	1.21 lbs (550g)
Polycarbonate Material	Handles: Polycarbonate + ABS, Gray, UL94 VO. Jaws: Polycarbonate, Red, UL94 VO
SAFETY	
Electrical	EN 61010-2-032
UL Approval	Yes – Canada and United States
Double Insulation 🔲	Yes
CE Mark	Yes

Note: Reference conditions: 23 ± 3°K, 20 to 75% RH, 48 to 65Hz, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered. Load impedance 0.2Ω @ lead <40mΩ for 250A range.

\*Diode Protection for open secondary (Output)



SR604\_211344 (pdf) 0308 Rev. 05





ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model SR604 (Lead – 1mA/A – 1000A max)	Cat. #2113.44
Includes a user manual	
Accessories (Optional)	
Banana (Female) – BNC (Male) Adaptor	Cat. #2118.46



SR604\_211344 (pdf) 0308 Rev. 05



## **Contact Us**

#### **United States & Canada:**

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> 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 and delivery:** customerservice@aemc.com

**Sales Department – for general sales information:** sales@aemc.com

**Repair and Calibration Service – for information on repair and 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 and New Zealand:

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> 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



SR604\_211344 (pdf) 0308 Rev. 05