

AC Current Probe Model SR632



The Model SR632 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 SR632 works as a traditional current transformer (with a ratio 1000:5) 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

Applications

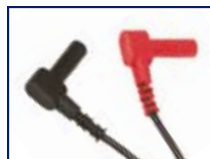
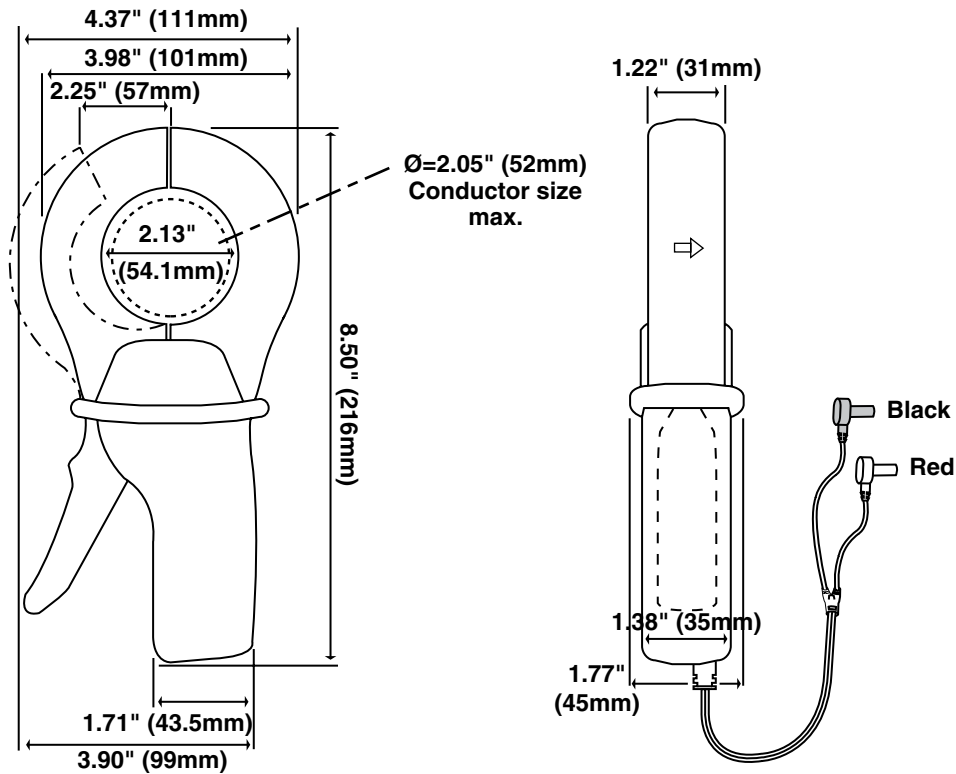
- Power quality measuring
- Low industrial loads
- Measuring around cable bundles
- Power load monitoring
- Waveform analysis

Specifications

MODEL	SR632*
ELECTRICAL	
Nominal Range	1000A
Measurement Range	0.1 to 1200A
Transformation Ratio	1000:5
Output Signal	5mA _{AC} /A _{AC} : (5A _{AC} @ 1000A)
Accuracy (1000A Range)	
1 to 20A	≤6% ± 0.1A
20A	5% of Reading
50A	3% of Reading
200A	1.5% of Reading
1000A	1% of Reading
1200A	1% of Reading
Phase Shift (1000A Range)	
20A	5°
50A	3°
200A	1.5°
1000A	1°
1200A	1°
Overload	1200A for 30 min ON, 15 min OFF
Frequency Range	30Hz to 5kHz; current derating above 1kHz using the formula: 1000A x 1/F (in kHz)
Load Impedance	0.6Ω max
Working/Common Mode Voltage	600V Cat. III
Output Termination	5 ft 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 V0. Jaws: Polycarbonate, Red, UL94 V0
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)



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

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model SR632 (Lead – 5mA/A – 1000A max) **Cat. #2114.79**

Includes a user manual

Accessories (Optional)

Banana (Female) – BNC (Male) Adaptor **Cat. #2118.46**

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