

AC Current Probe Model SR634



The Model SR634 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.

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 SR634 works as a traditional current transformer (with ratios of 250:5, 500:5 or 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 or mV output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- CE Mark

Applications

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

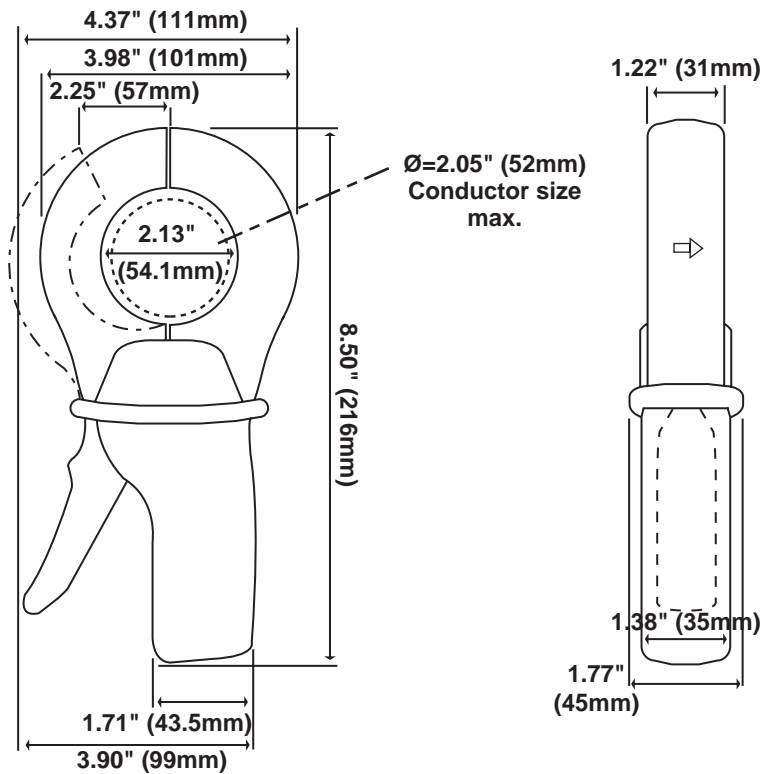
Specifications

| MODEL | SR634* |
|-----------------------------|---|
| ELECTRICAL | |
| Nominal Range | 250, 500, 1000A |
| Measurement Range | 0.1 to 1200A |
| Transformation Ratio | 250:5, 500:5, 1000:5 |
| Output Signal | 5mA, 10mA, 20mAAC/AAC (5AAC @ 250, 500 or 1000A) |
| Accuracy (250A Range) | |
| 1 to 5A | ≤10% ± 0.1A |
| 5A | 10% of Reading |
| 12.5A | 5% of Reading |
| 50A | 2.5% of Reading |
| 250A | 2% of Reading |
| 300A | 2% of Reading |
| Phase Shift (250A Range) | |
| 12.5A | 10° |
| 50A | 10° |
| 250A | 10° |
| 300A | 10° |
| Accuracy (500A Range) | |
| 1 to 10A | ≤6% ± 0.1A |
| 10A | 6% of Reading |
| 25A | 3% of Reading |
| 100A | 2% of Reading |
| 500A | 1% of Reading |
| 600A | 1% of Reading |
| Phase Shift (500A Range) | |
| 10A | 6° |
| 25A | 4° |
| 100A | 3° |
| 500A | 2.5° |
| 600A | 2.5° |
| 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 | 0.4Ω max |
| Crest Factor | ≤6 |
| Working/Common Mode Voltage | 600V Cat. III |
| Output Termination | Jack |
| 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 |
| 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)





Jacks:
Two standard safety banana jacks (4mm)

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model SR634 (Jack – 5mA/A – 250A max; 10mA/A – 500 max; 20mA/A – 1000A max) . . . **Cat. #2113.48**

Includes a user manual

Accessories (Optional)

Leads, set of 2, 5 ft safety (1000V) **Cat. #2111.29**

Banana plug adaptor (Safety Leads to nonrecessed plug) **Cat. #1017.45**

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