AC Current Probe
Model SR751

The Model SR751 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 1200A$_{AC}$. The Model SR751 provides an accurate voltage of 1mV/A. This voltage output enables instruments without current ranges to measure, display and log currents through an AC voltage range or measure very low AC.

Features

- Measurement range of 1mA to 1200A$_{AC}$
- 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

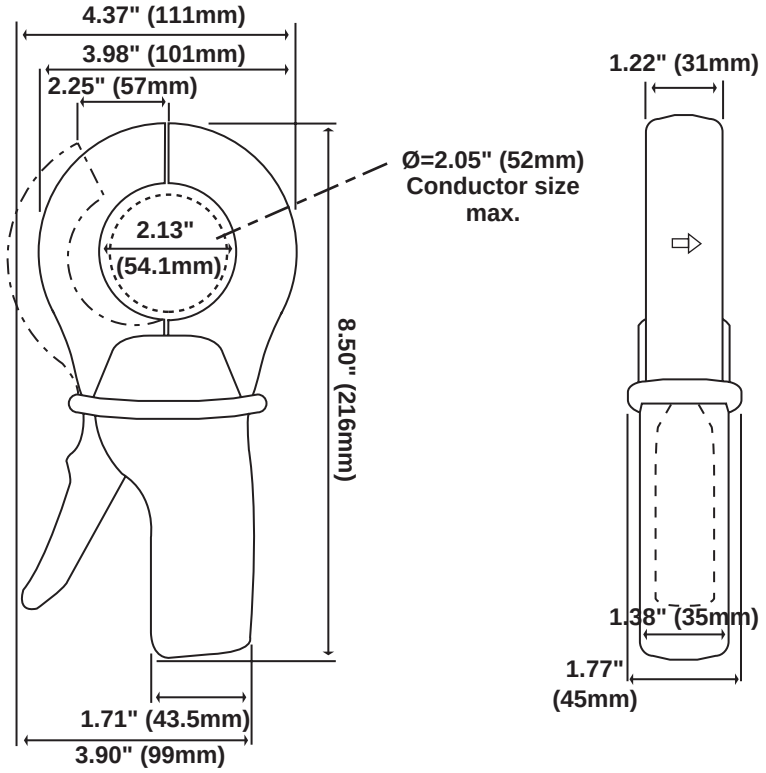
Applications

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

Specifications

MODEL	SR751
ELECTRICAL	
Nominal Range	1000A
Measurement Range	1mA to 1200A
Transformation Ratio	Voltage output
Output Signal	1mVAC/AAC (1VAC @ 1000A)
Accuracy (1000A Range) 1mA to 100mA	≤3% of Reading ± 5µV
0.1 to 1A	≤2% of Reading ± 3µV
1 to 10A	<1% of Reading
10 to 100A	≤0.5% of Reading
100 to 1200A	≤0.3% of Reading
Phase Shift (1000A Range) 1 to 10A	≤2°
10 to 100A	≤1°
100 to 1200A	≤0.7°
Overload	1200A for 40 min ON, 20 min OFF
Frequency Range	30Hz to 5kHz; current derating above 1kHz using the formula: 1000A x 1F (in kHz)
Load Impedance	100kΩ min
Working/Common Mode Voltage	600Vrms 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

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 1Ω.



Jacks:
Two standard safety banana jacks (4mm)

ORDERING INFORMATION — CATALOG NO.

AC Current Probe Model SR751 (Jack – 1mA/A – 1000A max) . . . . . **Cat. #2116.31**
Model 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

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