

# AC Current Probe Model SR759



The Model SR759 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 SR759 provides an accurate voltage of 1mV to 1000mV/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 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 mV output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- UL approved for Canada and United States
- Double Insulation
- CE Mark

## Applications

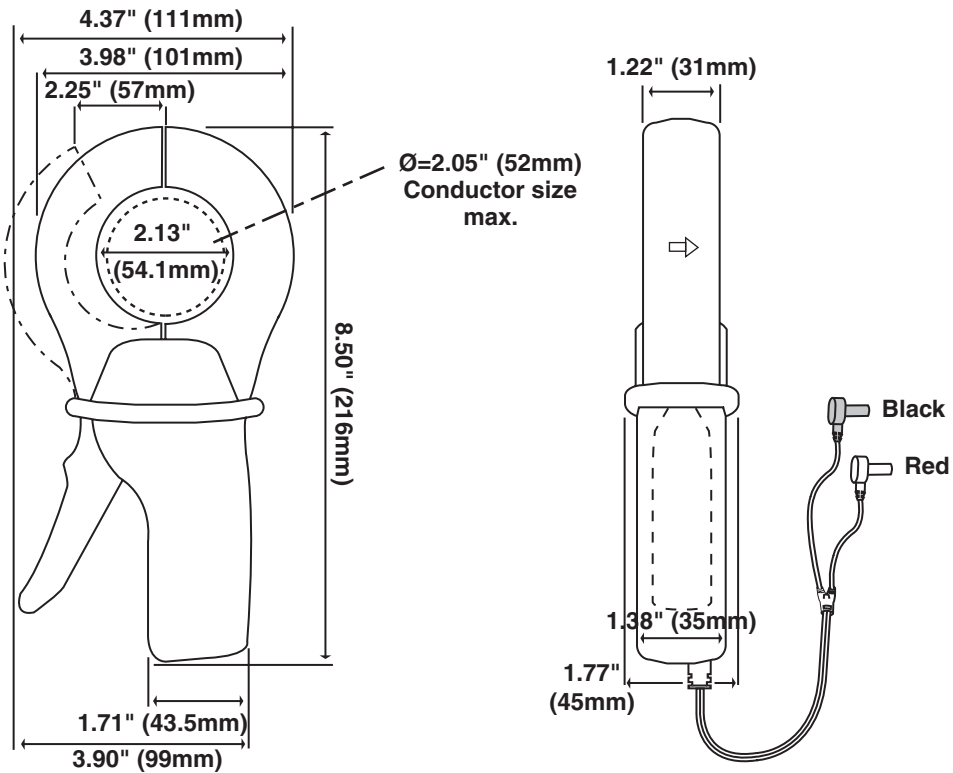
- Power quality measuring
- Low industrial loads
- Measuring around cable bundles
- Power load monitoring
- Waveform analysis

# Specifications

MODELS	SR759
<b>ELECTRICAL</b>	
Nominal Range	1A, 10A, 100A, 1000A
Measurement Range	1mA to 1200A
Transformation Ratio	Voltage output
Output Signal	1000mV
10A	100mV
100A	10mV
1000A	1mV/Ac
Accuracy (1A Range)	
0.001 to 0.1A	3% of Reading $\pm$ 1mV
0.1 to 1A	0.7% of Reading $\pm$ 1mV
Phase Shift (1A Range)	
0.1 to 1A	<10°
Accuracy (10A Range)	
0.01 to 0.1A	1% of Reading $\pm$ 0.2mV
0.1 to 1A	0.5% of Reading $\pm$ 0.2mV
1 to 10A	<0.5% of Reading
Phase Shift (10A Range)	
0.1 to 1A	<5°
1 to 10A	<2°
Accuracy (100A Range)	
0.1 to 1A	1% of Reading $\pm$ 0.2mV
1 to 10A	0.5% of Reading $\pm$ 0.2mV
10 to 100A	0.3% of Reading
Phase Shift (100A Range)	
1 to 10A	<2°
10 to 100A	<1°
Accuracy (1000A Range)	
1 to 10A	1% of Reading $\pm$ 0.2mV
10 to 100A	0.5% of Reading $\pm$ 0.2mV
100 to 1000A	0.2% of Reading
100 to 1200A	0.2% of Reading
Phase Shift (1000A Range)	
1 to 10A	<2°
10 to 100A	<2°
1000 to 1200A	<1°
Overload	1.2A Arms continuous; 12A Arms continuous; 120A Arms continuous; 1200A Arms for five min
Frequency Range	30 to 3000Hz; current derating above 1kHz using the formula: 1000A x 1F (in kHz)
Load Impedance	100k $\Omega$ min
Working/Common Mode Voltage	600Vrms Cat. III
Output Termination	5 ft Lead
<b>MECHANICAL</b>	
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
<b>SAFETY</b>	
Electrical	EN 61010-2-032
UL Approval	Yes – Canada and United States
Double Insulation <input type="checkbox"/>	Yes
CE Mark	Yes

Note: Reference conditions:

23  $\pm$  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 1 $\Omega$ .



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

**ORDERING INFORMATION**

**CATALOG NO.**

**AC Current Probe Model SR759** (Lead – 1/10/100/1000A)..... **Cat. #2116.33**

Includes a user manual

**Accessories (Optional)**

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

## Contact Us

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