

# AC/DC Current Probe Model SL206



The Model SL206 is designed for AC/DC current measurement capabilities using Hall effect technology. It measures from a few mA to over 100A.

The “screw driver” shape, with its narrow elongated prod, was chosen to permit probing in crowded cable bundles, or measuring in tight areas such as on circuit boards, motor controllers and automotive circuitry.

The electronics and batteries are self-contained in the handles. It is an excellent companion to DMMs, recorders and loggers, oscilloscopes and waveform displaying instruments. Low phase shift also insures reliable power and power quality measurements.

The Model SL206 is very familiar with two mV ranges. The SL206 provides higher sensitivity for lower level signal measurements.

## Features

- Low AC and DC measurements
- 50mA to 120Aac/150Adc
- Unique design for probing in crowded wiring in industrial and automotive environments
- Hall effect sensor technology
- Use with DMMs, voltmeters and other voltage measuring instruments

## Applications

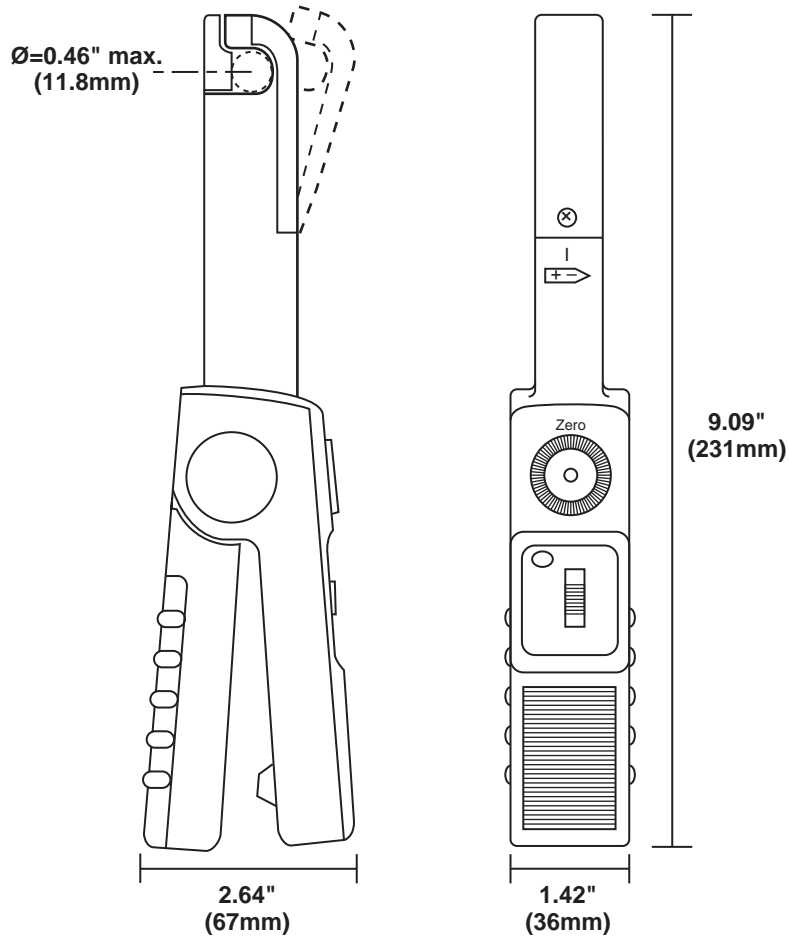
- Circuit board testing
- Motor controllers
- Automotive circuitry

# Specifications

| MODEL  | SL206  |
|--|--|
| <b>ELECTRICAL</b>  |  |
| Nominal Range  | 2A & 100A  |
| Measurement Range  | 50mA to 80AAC/DC   |
| Transformation Ratio   | Voltage output   |
| Output Signal  | 2A: 1mV/mA<br>100A: 1mV/A  |
| Accuracy<br>(1mV/mA Range)<br>10mA to 2AAC/DC<br>100mA to 1.5A/50mAAC<br>50 to 80ADc/40 to 60AAC | 2% of Reading $\pm$ 5mA  |
|  | 2% of Reading $\pm$ 5mA  |
|  | $\pm$ 12% of Reading   |
| Phase Shift<br>(1mV/mA Range) DC   | to 65Hz 1°   |
| Accuracy<br>(10mV/A Range)<br>50mA to 50ADc<br>50A to 40AAC<br>50 to 80ADc<br>40 to 60AAC        | 4% of Reading $\pm$ 20mA   |
|  | $\pm$ 4% of Reading $\pm$ 20mA   |
|  | $\pm$ 12% of Reading   |
|  | $\pm$ 12% of Reading   |
| Phase Shift<br>(1mV/mA Range) DC   | to 65Hz 1°   |
| Overload   | 120A continuous  |
| Frequency Range  | DC to 8kHz   |
| Load Impedance   | 100k $\Omega$ (1mV/mA); 100k $\Omega$ (1V/A)   |
| Working/Common Mode Voltage  | 600Vrms  |
| Output Termination   | 5 ft Lead  |
| <b>MECHANICAL</b>  |  |
| Operating Temperature  | 32° to 122°F (0° to 50°C)  |
| Storage Temperature  | -22° to 176°F (-30° to 80°C)   |
| Operating Relative Humidity  | 10° to 30°C: 85 $\pm$ 5% RH (without condensation)<br>40° to 50°C: 45 $\pm$ 5% RH (without condensation) |
| Maximum Conductor Size   | 0.46" (11.8mm)   |
| Dimensions   | 9.09 x 1.42 x 2.64" (231 x 36 x 67mm)  |
| Weight   | 11.6 oz (330g) with battery  |
| Polycarbonate Material   | Handle: Lexan® 920A, UL94 V2   |
| <b>SAFETY</b>  |  |
| Electrical   | EN 61010-2-32  |
| CE Mark  | Yes  |

Note: Reference conditions:

23°C  $\pm$  5°K, 20 to 75% RH, 48 to 65Hz, external magnetic field < 40A/m, no external current carrying conductor, test sample centered, load impedance 1M $\Omega$ .



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

**ORDERING INFORMATION**

**CATALOG NO.**

|  |                      |
|--|----------------------|
| <b>AC/DC Current Probe Model SL206</b> (Lead – 1mV/mA – 2A max & 10mV/A – 80A max) . . . . . | <b>Cat. #1201.45</b> |
| Includes a 9V battery and user manual  |                      |
| <b>Accessories (Optional)</b>  |                      |
| Banana plug adaptor (to nonrecessed plug) (Models SL201 & SL206) . . . . .                   | Cat. #1017.45        |
| Banana/BNC connector XF-SS (4mm plug adaptor) . . . . .                                      | Cat. #2111.32        |

## Contact Us

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