

# CURRENT MEASUREMENT PROBES

## SL SERIES AC/DC CURRENT PROBES

### SL SERIES



Model SL206

Compact, long nose probes designed for accurate measurements of low currents with 10mAdc sensitivity, capable of measuring both AC and DC current



Only SL261

## FEATURES

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- Low AC and DC measurements
- Measures from 10mA to 100A
- Dual range selection
- Unique design for probing in crowded wiring areas
- Hall effect sensor technology
- UL approved for the US and Canada
- Flame retardant UL94 V2 rated
- Use with DMMs, voltmeters and other voltage measuring instruments

## SPECIFICATIONS

| MODELS  | SL206  | SL261   |
|---|--|---|
| <b>Nominal Range</b>  | 2A; 80A  | 10A; 100Aac/dc peak   |
| <b>Measurement Range</b>  | 10mA to 80Aac; 10mA to 60Aac   | 100 mA to 100Aac/dc peak  |
| <b>Transformation Ratio</b>   | Voltage output   |   |
| <b>Output Signal</b>  | 2A: 1mV/mA (2V @ 2A)<br>80A: 10mV/A (0.8V @ 80A)   | 10A: 100mV/A (1V @ 10A)<br>100A: 10mV/A (1V @ 100A)             |
| <b>Accuracy</b>   |  |   |
| (1mV/mA Range)<br>10mA to 2Adc/10mA to 1.5Aac   | 2% of Reading ± 5mA  | -   |
| (10mV/A Range)<br>50mA to 50Adc<br>50mA to 40Aac<br>50 to 80Adc<br>40 to 60Aac          | 4% of Reading ± 20mA<br>4% of Reading ± 20mA<br>12% of Reading<br>12% of Reading                 | -   |
| (10mV/A Range)<br>500mA to 40Aac/dc Peak<br>40 to 80Aac/dc Peak<br>80 to 100Aac/dc Peak | -  | 4% of Reading ± 50mA<br>12% of Reading ± 50mA<br>15% of Reading |
| (100mV/A Range)<br>50mA to 10Aac/dc Peak  | -  | 3% of Reading ± 50mA  |
| <b>Phase Shift (DC to 65 Hz)</b>  |  |   |
| (1mV/mA Range)  | 1°   | -   |
| (10mV/mA Range)   | 1°   | <1°   |
| (100mV/mA Range)  | -  | <1.5°   |
| <b>Overload</b>   | 120A continuous  | Red LED indicator   |
| <b>Frequency Range</b>  | DC to 8kHz   | DC to 100kHz<br>(-3dB with current derating)                    |
| <b>Load Impedance</b>   | 100kΩ (1mV/mA); 10kΩ (1V/A)  | >1MΩ/100pF  |
| <b>Working/Common Mode Voltage</b>  | 600Vrms  |   |
| <b>Output Termination</b>   | 5ft (1.5m) lead with double insulated<br>4mm safety banana plugs                                 | 6.5 ft (2 m) coaxial cable with insulated<br>BNC terminal       |
| <b>MECHANICAL</b>   |  |   |
| <b>Operating Temperature</b>  | 32° to 122°F (0° to 50°C)  |   |
| <b>Storage Temperature</b>  | -22° to 176°F (-30° to 80°C)   |   |
| <b>Operating Relative Humidity</b>  | 10° to 30°C: 85 ± 5% RH (without condensation)<br>40° to 50°C: 45 ± 5% RH (without condensation) |   |
| <b>Maximum Conductor Size</b>   | 0.46" (11.8mm)   |   |
| <b>Dimensions</b>   | 9.09 x 1.42 x 2.64" (231 x 36 x 67mm)  |   |
| <b>Weight</b>   | 11.6 oz (330g) with battery  |   |
| <b>Material</b>   | Polycarbonate UL 94  |   |
| <b>SAFETY</b>   |  |   |
| <b>Electrical</b>   | EN 61010-2-32, 600V CAT III  |   |
| <b>CE Mark</b>  | Yes  |   |

| CATALOG NO. | DESCRIPTION                           |
|-------------|---------------------------------------|
| 1201.45     | AC/DC Current Probe Model SL206       |
| 1201.51     | AC/DC Current Probe Model SL261 (BNC) |