

CURRENT MEASUREMENT PROBES

SR SERIES CURRENT PROBES

SR700 SERIES



Model SR701

Excellent linearity and low phase shift, plus a broad frequency response, permit accurate measurements of current for power and power quality measurements



FEATURES

- Measurement range of 1mA to 1200AAC
- Large jaw opening accommodates conductors up to two 500MCM conductors
- Ergonomic design and easy operation
- Low phase shift for power measurements
- Available with mA output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- UL approved

SPECIFICATIONS

| MODELS | SR701 | SR704 | SR752 | SR759 |
|-----------------------------|---|-------|---|--|
| Nominal Range | 1000AAC | | | 1; 10; 100; 1000AAC |
| Measurement Range | 1mA to 1200AAC | | 100mA to 1200AAC | 1mA to 1200AAC |
| Transformation Ratio | 1000: 1 | | Voltage output | |
| Output Signal | 1mA/A (1AAC @ 1000A) | | 1mV/A (1VAC @ 1000A) | 1000; 100; 10; 1mV/A, (1VAC @ 1, 10, 100 or 1000A) |
| Accuracy | 1 to 100mA: $\leq 3\%$ of Reading ± 5 mA 0.1 to 1A: $\leq 2\%$ of Reading ± 3 mA 1 to 10A: $< 1\%$ of Reading 10 to 100A: $\leq 0.5\%$ of Reading 100 to 1200A: $\leq 0.3\%$ of Reading | | 0.1 to 1A: $\leq 2\%$ of Reading $\pm 3\mu A$ 1 to 10A: $< 1\%$ of Reading 10 to 100A: $\leq 0.5\%$ of Reading 100 to 1200A: $\leq 0.3\%$ of Reading | (1A Range) 1 to 10 mA: 3% of Reading ± 1 mA 10mA to 0.1 A: $\leq 3\%$ of Reading ± 1 mA 0.1 to 1.2 A: $\leq 0.7\%$ of Reading ± 1 mA (10A Range) 10mA to 0.1A: 1% of Reading ± 2 mA 0.1 to 1A: $\leq 0.5\%$ of Reading ± 2 mA 1 to 12A: $\leq 0.5\%$ of Reading (100A Range) 0.1 to 1A: 1% ± 20 mA 1 to 10A: $\leq 0.5\%$ of Reading ± 20 mA 10 to 100A: $\leq 0.3\%$ of Reading 100 to 120A: $\leq 0.2\%$ of Reading (1000A Range) 1 to 10A: 1% of Reading ± 0.2 A; 10 to 100A: $\leq 0.5\%$ of Reading ± 0.2 A; 100 to 1200 A: $\leq 0.2\%$ of Reading |
| Phase Shift | 1 to 10A: $\leq 2^\circ$ 10 to 100A: $\leq 1^\circ$ 100 to 1200A: $\leq 0.7^\circ$ | | 1 to 10A: $\leq 2^\circ$ 10 to 100A: $\leq 1^\circ$ 100 to 1200A: $\leq 0.7^\circ$ | (1A Range) 0.1 to 1.2 A: $\leq 10^\circ$ (10A Range) 0.1 to 1A: $\leq 5^\circ$; 1 to 12A: $\leq 2^\circ$ (100A Range) 1 to 10 A: $\leq 2^\circ$; 10 to 120A: $\leq 1^\circ$ (1000A Range) 10 to 100A: $\leq 2^\circ$; 100 to 1200A: $\leq 1^\circ$ |
| Overload | 1200A for 40 min ON, 20 min OFF | | | |
| Frequency Range | 30Hz to 5kHz; current derating above 1kHz using the formula: 1000A x 1/F (in kHz) | | | |
| Load Impedance | 5 Ω max | | 100k Ω min | |
| Working/Common Mode Voltage | 600V CAT III | | | |
| Output Termination | Two 4mm safety banana jacks | | 5ft (1.5m) lead with 4mm safety banana plugs | |
| 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% | | 0 to 90% | |
| 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) | | | |
| Material | Polycarbonate UL 94 | | | |
| SAFETY | | | | |
| Electrical | EN 61010-2-32 | | | |
| UL Approval | Yes - Canada and United States | | | |
| Double Insulation | Yes | | | |
| CE Mark | Yes | | | |

ACCESSORIES

Catalog #2152.24
Leads, set of two, 5 ft safety (1000V)

Catalog #1017.45
Banana plug adaptor (Safety Leads to nonrecessed plug)

Catalog #2118.46
Banana (Female) - BNC (Male) Adaptor

| CATALOG NO. | DESCRIPTION |
|-------------|------------------------------|
| 2116.29 | AC Current Probe Model SR701 |
| 2116.30 | AC Current Probe Model SR704 |
| 2116.32 | AC Current Probe Model SR752 |
| 2116.33 | AC Current Probe Model SR759 |

