

# CURRENT MEASUREMENT PROBES

## SR SERIES CURRENT PROBES

### SR600 SERIES

Current probes well-suited for power applications where high accuracy and low phase shift is important



Model SR601

### SPECIFICATIONS

MODELS	SR600	SR601	SR604	SR634	SR651	SR661
Nominal Range	1000A <sub>AC</sub>			250, 500, 1000A <sub>AC</sub>	1000A <sub>AC</sub>	10, 100, 1000A <sub>AC</sub>
Measurement Range	0.1 to 1200A <sub>AC</sub>					
Transformation Ratio	1000: 1			250:5, 500:5, 1000:5	Voltage Output	Voltage output
Output Signal	1mA/A (1A <sub>AC</sub> @ 1000A)			5mA; 10mA; 20mA/A (5A <sub>AC</sub> @ 250; 500; 1000A)	1mV/A (1V <sub>AC</sub> @ 1000A)	1mV; 10mV; 100mV/A (1V <sub>AC</sub> @ 10, 100; 1000A)
Accuracy	0.1 to 10A: ≤3% of Reading ± 0.1A 10A: 3% of Reading 50A: 0.5% of Reading 200A: 0.75% of Reading 1000A: 0.5% of Reading 1200A: 0.5% of Reading			(250A Range) 1 to 5A: ≤10% of Reading ± 0.1A 5A: 10% of Reading 50A: 2.5% of Reading 250A: 2% of Reading 300A: 2% of Reading (500A Range) 1 to 10A: ≤6% of Reading ± 0.1A 10A: 6% of Reading; 25A: 3% of Reading 100A: 2% of Reading; 500A: 1% of Reading 600A: 1% of Reading (1000A Range) 1 to 20A: ≤6% of Reading ± 0.1A; 20A: 5% of Reading; 50A: 3% of Reading 200A: 1.5% of Reading; 1000A: 1% of Reading 1200A: 1% of Reading	1 to 50A: ≤3% of Reading ± 0.1A 50 to 200A: 1.5% of Reading 200 to 1000A: 0.75% of Reading 1000 to 1200A: 0.5% of Reading	(10A Range) ≤3% of Reading ± 0.1A (100A Range) ≤2% of Reading ± 0.5A (1000A Range) ≤2% of Reading ± 1A
Phase Shift	10A: 3°; 50A: 1.5°; 200A: 0.75°; 1000A: 0.5°; 1200A: 0.5°			(250A Range) 12.5A: 10°; 50A: 10°; 250A: 10°; 300A: 10° (500A Range) 10A: 6°; 25A: 4°; 100A: 3°; 500A: 2.5°; 600A: 2.5° (1000A Range) 20A: 5°; 50A: 3°; 200A: 1.5°; 1000A: 1°; 1200A: 1°	10A: 3° 50A: 1.5° 200A: 0.75° 1000A: 0.5° 1200A: 0.5°	(10A Range) 10A: ≤15° (100A Range) 20A: ≤15°; 100A: ≤10° 120A: ≤5° (1000A Range) 200A: ≤3°; 1000A: ≤2° 1200A: ≤1°
Overload	1200A for 40 min ON, 20 min OFF			1200A for 30 min ON, 15 min OFF	1200A for 40 min ON, 20 min OFF	
Frequency Range				30Hz to 5kHz*		10Hz to 100kHz*
Load Impedance	5Ω max			0.4Ω max	100kΩ min	1MΩ min
Working/Common Mode Voltage	600V CAT III					
Output Surge Protection	No	30V peak				N/A
Output Termination	Two 4mm safety banana jacks	Lead with plugs	Two 4mm safety banana jacks		Two 4mm safety banana jacks	6.5 ft (2m) coaxial cable with BNC terminal
<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% decreasing linearly above 95°F (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)					
Material	Polycarbonate UL 94					
<b>SAFETY</b>						
Electrical	EN 61010-2-32, 600 V CAT III					
UL Approval	Yes - Canada and United States					
Double Insulation	Yes					
CE Mark	Yes					

\*Current derating above 1kHz using the formula: 1000A x 1/F (in kHz)



### FEATURES

- Measurement range of 100mA to 1200A<sub>AC</sub>
- Large jaw opening accommodates up to two 500kcmil conductors
- Ergonomic design and easy operation
- Low phase shift for power measurements
- Available with mA or mV output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- UL approved

### 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
2113.42	AC Current Probe Model SR600
2113.43	AC Current Probe Model SR601
2113.44	AC Current Probe Model SR604
2113.48	AC Current Probe Model SR634
2113.45	AC Current Probe Model SR651
2113.49	AC Current Probe Model SR661

