

CURRENT MEASUREMENT PROBES

SL SERIES AC/DC CURRENT PROBES

SL SERIES

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

SPECIFICATIONS

MODELS	SL206	SL261
ELECTRICAL		
Nominal Range	2A; 80A	10A; 100Aac/dc peak
Measurement Range	10mA to 80Adc 10mA to 60Aac	100 mA to 100Aac/dc peak
Transformation Ratio	Voltage output	
Output Signal	2A: 1mV/mA (2V @ 2A) 80A: 10mV/A (0.8V @ 80A)	10A: 100mV/A (1V @ 10A) 100A: 10mV/A (1V @100A)
Phase Shift (DC to 65 Hz) (1mV/mA Range) (10mV/mA Range) (100mV/mA Range)	1° 1° —	— <1° <1.5°
Overload	120A continuous	Red LED indicator
Frequency Range	DC to 8kHz	DC to 100kHz (-3dB with current derating)
Load Impedance	100kΩ (1mV/mA); 10kΩ (1V/A)	>1MΩ/100pF
Working/Common Mode Voltage	600Vrms	
Output Termination	5 ft (1.5m) lead with double insulated 4mm safety banana plugs	6.5 ft (2 m) coaxial cable with insulated BNC terminal
MECHANICAL		
Operating Relative Humidity	10° to 30°C: 85 ± 5% RH (without condensation) 40° to 50°C: 45 ± 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	
Material	Polycarbonate UL 94	
ENVIRONMENTAL		
Operating Temperature	32° to 122°F (0° to 50°C)	
Storage Temperature	-22° to 176°F (-30° to 80°C)	
SAFETY		
Electrical	EN 61010-2-32, 600V CAT III	
CE Mark	Yes	
UL Approval	No	Yes

Consult factory for NIST Calibration prices



SL206 W/ BANANA PLUGS



SL261 W/ BNC CONNECTOR



FEATURES

SL SERIES AC/DC CURRENT PROBES

- 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 (not SL206)
- Flame retardant UL94 V2 rated
- Use with DMMs, voltmeters and other voltage measuring instruments

CATALOG NO.	DESCRIPTION
1201.45	AC/DC Current Probe Model SL206 (2A, 1mV/mA & 80A, 10mV/A, Lead)
1201.51	AC/DC Current Probe Model SL261 (10A, 100mV/A & 100A, 10mV/A, BNC)

CURRENT MEASUREMENT PROBES

GENERAL PURPOSE PROBES SELECTION CHART

Series	Model	Ratio	Measurement Range		Output Signal		Phase Shift**	Maximum Conductor Size		Output Connection	Catalog No.
			AC	DC	Current	Voltage		Ø Cable	Bus Bar		
	MN01	1000:1	2 to 150A	-	1mA/A*	-	N/A	0.39" (10mm)		Leads	2129.17
	MN02		50mA to 100A 50mA to 90A			-					2129.20
	MN03	2 to 100A	-		1mV/A	2129.18					
	MN05	5mA to 10A 1 to 100A	-		1mV/A 1mV/A	2129.19					
	MN103		1mA to 10A 1 to 100A		-	1mV/A 1mV/A	<10° <8° <3.5°	0.47" (12mm)			1031.02
	MN106		1000:1		2 to 150A	1mA/A					-
	MN114	-	1mA to 10A		-	100mV/A					2110.71
	MN185	1000:1	50mA to 120A		1mA/A	-					Jacks
	MN213		1000:1		0.5 to 240A	1mA/A*	-	<2.5°	0.78" (19.8mm)	N/A	Leads
	MN251	-				1mV/A	2115.77				
	MN253	-	10mV/A	2115.79							
	MN255	-	0.1 to 24A 0.1 to 240A	-	100mV/A 10mV/A	2115.81					
	MN291		0.5 to 240A	-	100mVdc/Aac	2115.84					
	MN307		10mA to 12A	-	100mV/A	2116.23					
	MN312	1000:1	0.1 to 200A	1mA/A*	-	<2.5°	Jacks	2116.24			
	MN313				-		Leads	2116.25			
	MN352		0.1 to 150A	-	10mV/A		Jacks	2116.26			
	MN353			-			Leads	2116.27			
	MN373	-	0.01 to 2.4A 0.1 to 200A	-	1000mV/A 10mV/A	<3°		2116.28			
	MN375		0.1 to 10A	-	100mV/A	<1.5°		2115.41			
	MN379		5mA to 6A 0.1 to 120A	-	200mV/A 10mV/A			2153.01			
	SL206		10mA to 1.5A 50mA to 60A	10mA to 2A 50mA to 80A	-	1mV/mAac/dc 10mV/Aac/dc		<1°	0.46" (11.8mm)		Leads
	MD301	1000:1	2 to 500A	-	-	1mVdc/Aac	N/A	1.18" (30mm) 2 x 500kcmil	2.48 x 0.20" (63 x 5mm)		1201.07
	MD305		1 to 600A		1mA/A*	-	<1°			1201.36	

*Output Protection for open secondary

**Phase shift indicated at maximum rating

Note: Models MN103, MN106, MN114 & MN185 are not CE compliant. MN200 & MN300 series are UL approved except MN379.

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CURRENT MEASUREMENT PROBES

GENERAL PURPOSE PROBES SELECTION CHART

Series	Model	Ratio	Measurement Range		Output Signal		Phase Shift**	Maximum Conductor Size		Output Connection	Catalog No.		
			AC	DC	Current	Voltage		Ø Cable	Bus Bar				
	MR415	—	0.5 to 400A	0.5 to 600A	—	1mV/A	≤1.5°	1.18" (30mm)	2 bus bar 1.24 x 0.39" (31.5 x 10mm)	5 ft (1.5m) Lead	1200.80		
	MR416		0.5 to 40A 0.5 to 400A	0.5 to 60A 0.5 to 600A		10mV/A 1mV/A	≤2.2° ≤1.5°				1200.82		
	MR525		0.5 to 1000A	0.5 to 1400A		1mV/A	≤1.5°	1.53" (39mm)	2 bus bar 1.96 x 0.19" (50 x 5mm)		1200.81		
	MR526		0.5 to 100A 0.5 to 1000A	0.5 to 150A 0.5 to 1400A		10mV/A 1mV/A	≤2° ≤1.5°				1200.83		
	SR600	1000:1	0.1 to 1000A	—	1mA/A	—	<0.5°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Jacks	2113.42		
	SR601				1mA/A*					Jacks	2113.43		
	SR604				1mA/A*					Leads	2113.44		
	SR634	250:5 500:5 1000:5	1 to 250A 1 to 500A 1 to 1000A		20mA/A 10mA/A 5mA/A*	<1°	Jacks			2113.48			
	SR651	—	0.1 to 1000A		—	1mV/A	<0.5°			Jacks	2113.45		
	SR701	1000:1	1mA to 1000A		1mA/A*	—	<0.7°			Jacks	2116.29		
	SR704									2116.30			
	SR752	—	0.1 to 1000A		—	1mV/A	<1°			Leads	2116.32		
	SR759		1mA to 1A 10mA to 10A 0.1 to 100A 1 to 1000A			1000mV/A 100mV/A 10mV/A 1mV/A				2116.33			
	K100	—	0.1mA to 3A	0.05mA to ±4A	—	1mV/mA	N/A	0.18" (4.5 mm)	N/A	Plugs	1200.67		
	K110		0.1mA to 300mA	0.05mA to ±450mA		10mV/mA				2111.73			
	LM102	1000:1	50mA to 200A	—	1mA/A*	—	<3°	0.63" (16 mm)		Leads	2153.04		
	LM103	—	0.1 to 200A		—	1mV/A				2153.05			

*Output Protection for open secondary

**Phase shift indicated at maximum rating

Note: All SR probes listed on this chart are UL approved, however not all SR series probes are UL approved; please consult factory.
Consult factory for NIST Calibration price.



OUTPUT TERMINATIONS

Lead with BNC

Insulated 6.5 ft (2m) coaxial cable with insulated BNC connector rated 600Vrms



Jacks

Two standard safety banana jacks (4mm)



Leads

Double/reinforced 5 ft (1.5m) leads with 4mm safety banana plug



Shrouded Banana Plugs

Two 4mm safety banana plugs; standard 3/4" (19mm) spacing



AMPFLEX® AND MINIFLEX® PROBES - SELECTION CHARTS

SERIES	MODEL	RATIO	MEASUREMENT RANGE	OUTPUT SIGNAL	MAXIMUM CONDUCTOR SIZE	CATALOG NO.
	MF 300-6-2-10-HF	—	30A / 300A	100mV/A, 10mV/A	1.77" (45mm)	2126.83
	MF 300-10-2-10-HF	—			2.95" (70mm)	2126.84
	MA114	—	3A / 30A / 300A / 3000A	1mV/mA, 100mV/A 10mV/A, 1mV/A	4" (101mm)	2153.41
	300-24-2-10	—	30A / 300A	100mV/A, 10mV/A	7.48" (190mm)	2112.88
	1000-24-1-1	—	1000A	1mV/A		2112.39
	1000-24-2-1	—	100A / 1000A	10mV/A, 1mV/A		2112.98
	1000-36-2-1	—			11" (290mm)	2113.00
	3000-24-1-1	—	3000A	1mV/A	7.48" (190mm)	2112.46
	3000-36-1-1	—			11" (290mm)	2112.48
	3000-24-2-1	—	300A / 3000A	10mV/A, 1mV/A	7.48" (190mm)	2113.05
	3000-36-2-1	—			11" (290mm)	2112.00
	3000-48-2-1	—			15" (390mm)	2112.01
	6000-36-2-0.1	—	600A / 6000A	1mV/A, 0.1mV/A	11" (290mm)	2113.21
	30000-24-2-0.1	—	3000A / 30,000A			2113.33
	24-3001	—	300A / 3000AAC	10mV/A, 1mV/A	7.48" (190mm)	2120.81

Consult factory for NIST Calibration price

OSCILLOSCOPE & BNC TERMINATED PROBES

MODEL	MEASUREMENT RANGE		OUTPUT SIGNAL	PHASE SHIFT*	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION
	AC	DC			Ø CABLE	BUS BAR	
 SL261	100mA to 10A 1 to 100A		100mV/A 10mV/A	<1.5°	0.46" (11.8mm)	N/A	6.6 ft (2m) Lead w/BNC
 MN261				<2.5°	0.78" (19.8mm)		
 SR661			100mV/A 10mV/A 1mV/A	<1°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	
 MN251T MN379T			1mV/A	<2.5°	0.78" (20mm)	0.78" (20mm)	10 ft (3m) Lead w/BNC
	0.005 to 6A		200mV/A	<4°			
	0.1 to 120A		10mV/A	<2.2°			
 MH60	0.5 to 100A	0.5 to 100A	10mV/A	<1°	1.02" (26mm)	N/A	6.6 ft (2m) Lead w/BNC
 MR417	0.5 to 40A 0.5 to 400A	0.5 to 60A 0.5 to 600A	10mV/A 1mV/A	≤2.2° ≤1.5°	1.18" (30mm)	2 bus bar 1.24 x 0.39" (31.5 x 10mm)	
 MR527	0.5 to 100A 0.5 to 1000A	0.5 to 150A 0.5 to 1400A		≤2.2° ≤1.5°	1.53" (39mm)	2 bus bar 1.96 x 0.19" (50 x 5mm)	

*Phase shift indicated at maximum rating. Note: All probes are rated 600V CAT III and CE compliant. Not all models are UL approved; please consult factory. Consult factory for NIST Calibration price.