

CURRENT MEASUREMENT PROBES

FLEXIBLE CURRENT PROBES

AMPFLEX® FLEXIBLE CURRENT PROBES

Flexible AC current probe composed of a flexible sensor and an electronic module

SPECIFICATIONS

Model	MEASUREMENT RANGE	OUTPUT	SENSOR LENGTH INCHES (MM)	MAX CONDUCTOR SIZE INCHES (MM)	CATALOG NO.
300-24-2-10	30/300A	100/10mV/A	24 (610)	8 (190)	2112.88
1000-24-1-1	1000A	1mV/A	24 (610)	8 (190)	2112.39
1000-24-2-1	100/1000A	10/1mV/A	24 (610)	8 (190)	2112.98
1000-36-2-1			36 (910)	11 (290)	2113.00
3000-24-1-1	3000A	1mV/A	24 (610)	8 (190)	2112.46
3000-36-1-1			36 (910)	11 (290)	2112.48
3000-24-2-1	300/3000A	10/1mV/A	24 (610)	8 (190)	2113.05
3000-36-2-1			36 (910)	11 (290)	2112.00
3000-48-2-1			48 (1220)	15 (390)	2112.01
6000-36-2-0.1	600/6000A	1/0.1mV/A	36 (910)	11 (290)	2113.21
30000-24-2-0.1	3000/30,000A		24 (610)	8 (190)	2113.33

Consult factory for NIST Calibration prices

Consult factory for special offers and ranges/lengths not shown here.

Note: Output is safety shrouded 4mm male banana plug.

FLEXPROBE® FLEXIBLE CURRENT PROBE MODEL 24-3001

Low cost AC current measurement probe designed to plug into digital multimeters, oscilloscopes and power recorders

SPECIFICATIONS

MODEL	24-3001
ELECTRICAL	
Current Range	300 / 3000Aac
Output Signal	mV output (4000mV peak max)
Three Position Slide Switch 10mV/A 1mV/A ON/OFF	5A to 300Arms 50A to 3000Arms
Power Source	9V Alkaline battery (included)
MECHANICAL	
Maximum Conductor Size	7.6" (193mm)
Sensor Length	24" ±1" (610mm ±25.4mm)
Cable Length	6.5 ft (2m)
Output Termination	Double insulated 14" (355mm) lead with safety banana plugs

FEATURES

- 24" flexible sensor fits around conductors up to 7.6" in diameter
- Dual measurement ranges of 300A and 3000Aac Read amperage directly on DMM display
- mV output directly proportional to the AC current measured
- Output is 10mV/A on 300A range and 1mV/A on 3000A range
- Accuracy of ±1% of Reading ±500mA
- 4% influence of conductor position in jaw
- Up to 150 hours of battery life
- Dual banana plug termination for direct input into DMMs
- Flashing LED low battery indicator
- 9V Alkaline battery, provides typical 150 hours of continuous operation (battery included)



FEATURES

- Models ranging from 0.5 to 30,000Arms
- Accuracy ±1% of Reading
- TRMS measurements when connected to a TRMS instrument
- No core saturation or damage if overloaded
- Overrange LED for measurement circuitry
- Waterproof sensor
- 9V Alkaline battery, provides typical 150 hours of continuous operation (battery included)
- Shape memory for custom pre-shaping of sensor before use (no drooping)
- Very high frequency response
- Low phase shift for power measurements of <1.3°, 0.7° typical
- Insensitive to DC, measures only AC component on DC + AC signals
- Excellent linearity
- Lightweight



ACCESSORIES

**BANANA (FEMALE)
BNC (MALE) (XM-BB)**

Catalog #2118.46
(optional for AmpFlex® & FlexProbe® Flexible Current Probes)



CATALOG NO. DESCRIPTION

2120.81 FlexProbe® Model 24-3001 (Lead)

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		-	1mA/A*	-	<2.5°	0.78" (19.8mm)	N/A	Leads
	MN251		0.5 to 240A			-	1mV/A				
	MN253			-		10mV/A	2115.79				
	MN255			0.1 to 24A 0.1 to 240A		-	100mV/A 10mV/A				
	MN291		0.5 to 240A	-		100mVdc/Aac	N/A	2115.84			
	MN307		10mA to 12A	-		100mV/A	2116.23				
	MN312		1000:1	0.1 to 200A		1mA/A*	-	<2.5°			Jacks
	MN313	-					Leads				2116.25
	MN352		0.1 to 150A	-		10mV/A	<3° <1.5°	Jacks			2116.26
	MN353			-				Leads			2116.27
	MN373		0.01 to 2.4A 0.1 to 200A	-	1000mV/A 10mV/A	2116.28					
	MN375		0.1 to 10A	-	100mV/A	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	1201.45
	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.

Consult factory for NIST Calibration price.

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°	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.