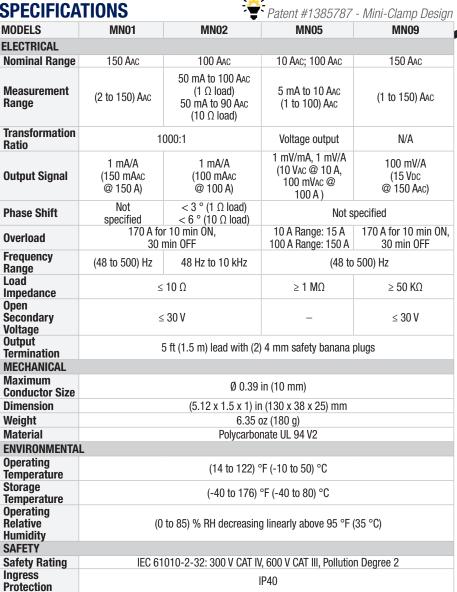
CURRENT MEASUREMENT PROBES

MN SERIES AC CURRENT PROBES

MN SERIES

Small and compact, ideal complement for any meter to measure AC currents in low-power secondary transformers or industrial applications

SPECIFICATIONS



Consult factory for NIST Calibration prices

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FEATURES

- · Clothes pin shape makes them ideal for use in tight areas, such as breaker panels, controller panels or outlets
- Jaw opening accommodates conductors up to 0.39 in diameter

- Measurements from 2 A to 150 Aac
- Excellent companions to all DMMs. permits very low AC current measurements

MN02

- Measurement ranges: 50 mA to 100 A (1 Ω load) 50 mA to 90 A (10 Ω load)
- Designed for DMMs, loggers, recorders and oscilloscopes
- (48 to 10,000) Hz frequency range
- 1 mA/A from (1 to 10) Ω load output signals

MN05

- Measurements from 5 mA to 100 Aac
- Permits very low AC current measurements

MN09

- Measurements from (1 to 150) Aac
- DC voltage output enables you to overcome low AC sensitivity of certain measurement instruments

CATALOG NO.	DESCRIPTION
2129.17	AC Current Probe Model MN01 (150 A, 1 mA/A, Lead)
2129.20	AC Current Probe Model MN02 (100 A, 1 mA/A, Lead, 1 % Accuracy)
2129.19	AC Current Probe Model MN05 (100 A, 1 mV/A & 10 A, 1 V/A, Lead)
2129.21	AC Current Probe Model MN09 (150 A, 100 mVpc/Aac, Lead)



CURRENT MEASUREMENT PROBESGENERAL PURPOSE PROBES SELECTION CHART

Series	Model	Ratio	Measureme	nt Range	Outp	out Signal	Phase	Maximum Conductor Size		Output Connec-	Catalog
331133	Wiouci	natio	AC	DC	Current	Voltage	Shift**	Ø Cable	Bus Bar	tion	No.
	MN01	1000:1	(2 to 150) A	-	1 A /A*	-	N/A	0.39 in (10 mm)	N/A	Leads	2129.17
	MN02	1000:1	50 mA to 100 A 50 mA to 90 A	-	1 mA/A*	_	N/A	0.39 in (10 mm)	N/A	Leads	2129.20
	MN05	_	5 mA to 10 A (1 to 100) A	_		1 mV/mA 1 mV/A	N/A	0.39 in (10 mm)	N/A	Leads	2129.19
/	MN09	_	(1 to 150) A	-		100 mVdc/Aac	N/A	0.39 in (10 mm)	N/A	Leads	2129.21
	MN103	_	1 mA to 10 A (1 to 100) A	_		1 mV/mA 1 mV/A	N/A	0.47 in (12 mm)	N/A	Leads	1031.02
	MN114	_	1 mA to 10 A	_		100 mV/A	< 8 °	0.47 in (12 mm)	N/A	Leads	2110.71
70	MN185	1000:1	50 mA to 120 A	-	1 mA/A	-	< 3.5 °	0.47 in (12 mm)	N/A	Jacks	100.185
	MN255	_	(0.1 to 24) A (0.1 to 240) A	_		100 mV/A 10 mV/A	< 2.5 °	0.78 in (20 mm)	N/A	Leads	2115.81
	MN261	_	(0.1 to 24) A (0.5 to 240) A	_		100 mV/A 10 mV/A	< 6 °	0.78 in (20 mm)	N/A	BNC	2115.82
	MN291	_	(0.5 to 240) A	_		100 mVdc/Aac	N/A	0.78 in (20 mm)	N/A	Leads	2115.84
	MN307	_	10 mA to 12 A	_		100 mV/A	< 2.5 °	0.78 in (20 mm)	N/A	Leads	2116.23
	MN312	1000:1	(0.1 to 200) A	-	1 mA/A*	_	< 2.5 °	0.78 in (20 mm)	N/A	Jacks	2116.24
	MN352	_	(0.1 to 150) A	_		10 mV/A	< 2.5 °	0.78 in (20 mm)	N/A	Jacks	2116.26
	MN353	_	,	-			< 2.5 °	0.78 in (20 mm)	N/A	Leads	2116.27
6	MN373	_	(0.01 to 2.4) A (0.1 to 200) A	_		1000 mV/A 10 mV/A	< 3°	0.78 in (20 mm)	N/A	Leads	2116.28
	MN375	_	(0.1 to 10) A	_		100 mV/A	< 1.5 °	0.78 in (20 mm)	N/A	Leads	2115.41
	MN379	_	5 mA to 6 A (0.1 to 120) A	_		200 mV/A 10 mV/A	< 4 °	0.78 in (20 mm)	N/A	Leads	2153.01
	MN379T	_	5 mA to 6 A (0.1 to 120) A	_		200 mV/A 10 mV/A	< 4°	0.78 in (20 mm)	N/A	Lead w/ BNC	2153.02
6	SL206	-	10 mA to 1.5 A 50 mA to 60 A	10 mA to 2 A 50 mA to 80 A	-	1 mV/mAac/dc 10 mV/Aac/dc	<1°	0.46 in (12 mm)	N/A	Leads	1201.45
	MD301	1000:1	(2 to 500) A	_		1 mVdc/Aac	N/A	1.18 in (30 mm) (2 x 500) kcmil	(2.48 x 0.20) in (63 x 5) mm	Leads	1201.07

^{*}Output Protection for open secondary

Note: Models MN103, MN106, MN114 & MN185 are not CE compliant. MN200 & MN300 series are UL approved except MN379. Consult factory for NIST Calibration price.



^{**}Phase shift indicated at maximum rating

CURRENT MEASUREMENT PROBESGENERAL PURPOSE PROBES SELECTION CHART

SERIES	MODEL	RATIO	MEASUREMENT RANGE		OUTPUT SIGNAL				XIMUM CTOR SIZE	OUTPUT CONNEC-	CATALOG
			AC	DC	CURRENT	VOLTAGE	SHIFT	Ø CABLE	BUS BAR	TION	NO.
	MR415	_	(0.5 to 400) A	(0.5 to 600) A	_	1 mV/A	≤ 1.5 °	1.18 in (30 mm)	2 bus bar (1.24 x 0.39) in (31 x 10) mm	5 ft (1.5 m) Lead	1200.80
	MR416	-	(0.5 to 40) A (0.5 to 400) A	(0.5 to 60) A (0.5 to 600) A	_	10 mV/A 1 mV/A	≤ 2.2 ° ≤ 1.5 °	1.53 in (39 mm)	2 bus bar (1.95 x 0.19) in (50 x 5) mm	5 ft (1.5 m) Lead	1200.82
	MR526	_	(0.5 to 100) A (0.5 to 1000) A	(0.5 to 150) A (0.5 to 1400) A	_	10 mV/A 1 mV/A	≤2° ≤1.5°	1.53 in (39 mm)	2 bus bar (1.95 x 0.19) in (50 x 5) mm	5 ft (1.5 m) Lead	1200.83
	SR601	1000:1	(0.1 to 1200) A	_	1 mA/A*	_	< 0.5 °	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Jacks	2113.43
	SR604	1000:1	(0.1 to 1200) A	_	1 mA/A*	_	< 0.5 °	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Leads	2113.44
	SR651	_	(0.1 to 1200) A	_	_	1 mV/A	< 0.5 °	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Jacks	2113.45
	SR701	1000:1	1 mA to 1000 A	_	1 mA/A*	_	< 0.7 °	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Jacks	2116.29
	SR704	1000:1	1 mA to 1000 A	_	1 mA/A*	_	< 0.7 °	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Leads	2116.30
	SR752	_	(0.1 to 1000) A	_	_	1 mV/A	< 0.7 °	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Leads	2116.32
	SR759	_	1 mA to 1 A 10 mA to 10 A (0.1 to 100) A (1 to 1000) A	-	_	1000 mV/A 100 mV/A 10 mV/A 1 mV/A	<1°	2.05 in (52 mm)	(1.95 x 0.19) in (50 x 5) mm	Leads	2116.33
	K100	_	0.1 mA to 3 A	0.05 mA to ± 4.5 A	_	1 mV/mA	N/A		N/A	Plugs	1200.67
	K110	_	(0.1 to 300) mA	(0.05 to ± 450) mA	_	10 mV/mA	N/A	0.18 in (4.5 mm)	N/A	Plugs	2111.73
	LM102	1000:1	50 mA to 200 A	-	1 mA/A*	_	< 3°	0.63 in	N/A	Leads	2153.04
	LM103	_	(0.1 to 200) A	_	_	1 mV/A	< 3°	(16 mm)	N/A	Leads	2153.05

^{*}Output Protection for open secondary

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



Jacks

Two standard safety banana jacks (4 mm)



Leads

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



Shrouded Banana Plugs

Two 4 mm safety banana plugs; standard ¾ in (19 mm) spacing





^{**}Phase shift indicated at maximum rating

AMPFLEX® AND MINIFLEX® PROBES - SELECTION CHARTS

SERIES	MODEL	RATIO	MEASUREMENT RANGE	OUTPUT SIGNAL	MAXIMUM Conductor Size	CATALOG NO.
○ A ■	MF 300-10-2-10-HF	_	30 A / 300 A	100 mV/A, 10 mV/A	2.95 in (75 mm)	2126.84
,,,	MF 3000-14-1-1-HF	_	3000 A	1 mV/A	3.93 in (100 mm)	2126.86
80	MA114	_	3 A / 30 A / 300 A / 3000 A	1 mV/mA, 100 mV/A 10 mV/A, 1 mV/A	4 in (101 mm)	2153.41
	300-24-2-10	_	30 A / 300 A	100 mV/A, 10 mV/A	7.48 in (190 mm)	2112.88
	1000-24-1-1	_	1000 A	1 mV/A	7.48 in (190 mm)	2112.39
	1000-24-2-1	_	100 A / 1000 A	10 mV/A, 1 mV/A	7.48 in (190 mm)	2112.98
	1000-36-2-1	_	100 A / 1000 A	10 mV/A, 1 mV/A	11 in (280 mm)	2113.00
	3000-24-1-1	_	3000 A	1 mV/A	7.48 in (190 mm)	2112.46
	3000-36-1-1	_	3000 A	1 mV/A	11 in (280 mm)	2112.48
	3000-24-2-1	_	300 A / 3000 A	10 mV/A, 1 mV/A	7.48 in (190 mm)	2113.05
	3000-48-2-1	_	300 A / 3000 A	1 mV/A	15 in (381 mm)	2112.01
	6000-36-2-0.1	_	600 A / 6000 A	1 mV/A, 0.1 mV/A	11 in (280 mm)	2113.21
	30000-24-2-0.1	_	3000 A / 30,000 A	1 mV/A, 0.1 mV/A	7.48 in (190 mm)	2113.33
O A	24-3001	_	300 A / 3000 AAC	10 mV/A, 1 mV/A	7.48 in (190 mm)	2120.81

Consult factory for NIST Calibration price

OSCILLOSCOPE & BNC TERMINATED PROBES

MODEL	MEASUREMENT RANGE AC DC		OUTPUT SIGNAL PHASE VOLTAGE SHIFT*		MAXIMUM CO Ø CABLE	OUTPUT CONNECTION	
SL261	100 mA to 10 A (1 to 100) A		100 mV/A 10 mV/A	< 1.5 °	0.46 in (12 mm)	N/A	6.5 ft (2 m) Lead w/BNC
MN261	(0.1 to 24) A (0.5 to 240) A	_	100 mV/A 10 mV/A	< 2.5 °	0.78 in (20 mm)	N/A	6.5 ft (2 m) Lead w/BNC
SR661 CUL us	(0.1 to 12) A (0.1 to 120) A (1 to 1200) A	_	100 mV/A 10 mV/A 1 mV/A	<1°	2.05 in (52 mm)	(1.96 x 0.19) in (50 x 5) mm	6.5 ft (2 m) Lead w/BNC
MN251T MN379T	(0.5 to 240) A	_	1 mV/A	< 2.5 °		0.78 in (20 mm)	10 ft (3 m)
	(0.005 to 6) A	_	200 mV/A	< 4 °	0.78 in (20 mm)		Lead w/BNC
	(0.1 to 120) A	-	10 mV/A	< 2.2 °			W/DING
MH60	(0.5 to 100) A	(0.5 to 100) A	10 mV/A	<1°	1.02 in (26 mm)	N/A	6.6 ft (2 m) Lead w/BNC
MR417	(0.5 to 40) A (0.5 to 400) A	(0.5 to 60) A (0.5 to 600) A	10 mV/A 1 mV/A	≤ 2.2 ° ≤ 1.5 °	1.18 in (30 mm)	2 bus bar (1.24 x 0.39) in (32 x 10) mm	6.6 ft (2 m) Lead w/BNC
MR527	(0.5 to 100) A (0.5 to 1000) A	(0.5 to 150) A (0.5 to 1400) A	10 mV/A 1 mV/A	≤ 2.2 ° ≤ 1.5 °	1.53 in (39 mm)	2 bus bar (1.96 x 0.19) in (50 x 5) mm	6.6 ft (2 m) Lead w/BNC

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

