

CURRENT MEASUREMENT PROBES

MN SERIES AC CURRENT PROBES

MN300 SERIES



Compact sized probes ideal for measuring low currents and leakage currents. Standard millivolt outputs are compatible with multimeters, data loggers and oscilloscopes

SPECIFICATIONS

MODELS	MN307	MN312	MN313	MN352	MN353	MN373	MN375	MN379*	
Nominal Range	10A _{AC}	150A _{AC}			2A _{AC} ; 150A _{AC}		10A _{AC}	5A _{AC} ; 100A _{AC}	
Measurement Range	0.1 to 12A _{AC}	0.1 to 200A _{AC}			0.01 to 2.4A _{AC} ; 0.2 to 200A _{AC}		0.1 to 10A _{AC}	5mA to 6A _{AC} ; 0.1 to 120A _{AC}	
Transformation Ratio	Voltage output	1000:1			Voltage output		Voltage output		
Output Signal	100mV/A (1V _{AC} @ 10A)	1mA/A (150mA _{AC} @ 150A)			10mV/A (1.5V _{AC} @ 150A)		2A: 1V/A (2V _{AC} @ 2A) 150A: 10mV/A (1.5V _{AC} @ 150A)	100 mV/A (1 V _{AC} @ 10A)	
Accuracy	0.1 to 0.5A: ≤2.5% of Reading ± 1mA 0.5 to 1A: ≤2.5% of Reading 1 to 12A: ≤1.0% of Reading	0.1 to 1A: 2% of Reading ± 20mA 1 to 80A: 1% of Reading ± 20mA 80 to 100A: 1.5% of Reading ± 0.1A 100 to 150A: 0.5% of Reading ± 0.5A 150 to 200A: Not specified			0.1 to 1 A: ≤3% of Reading ± 20mA 1 to 20 A: ≤2% of Reading ± 20mA 20 to 80A: ≤1% of Reading 80 to 150A: ≤3% of Reading 150 to 200A: ≤7% of Reading		0.01 to 0.1A: ≤5% of Reading ± 2mA 0.1 to 1A: ≤3% of Reading ± 1mA 1 to 2 A: ≤1% of Reading 2 to 2.4 A: ≤1% of Reading (150A Range) 0.1 to 1A: ≤3% of Reading ± 200mA 1 to 20A: ≤2% of Reading ± 20mA 20 to 80A: ≤1% of Reading 80 to 150A: ≤3% of Reading 150 to 200A: Not specified	0.1 to 1A: 1% of Reading ± 20mA 1 to 10A: 1% of Reading ± 0.15A	(5A Range) 5mA: 1.5% ± 0.1mA 50mA: 1.5% 0.5A: 1% 5A: 1% (100A Range) 0.1 A: 1% ± 1mA 1; 10; 100 A: 1%
Phase Shift	0.1 to 1A: ≤5° 1 to 5A: ≤3° 5 to 12A: ≤2.5°	0.1 to 1A: Not specified 1 to 20A: ≤3° 20 to 80A: ≤2° 80 to 150A: ≤2.5° 150 to 200A: Not specified			(2A Range) Not Specified (150A Range) 0.1 to 1 A: Not specified 1 to 20 A: ≤3° 20 to 80 A: ≤2° 80 to 150 A: ≤3° 150 to 200 A: ≤4°		1 to 5A : ≤1° @ 60 Hz 5 to 10A: ≤1.5° @ 60 Hz	(5A Range) 5mA: 6.5° 50mA: 5° 0.5A: 4.5° 5A: 4° (100A Range) 0.1A: 3.2° 1; 10; 100A: 2.2°	
Overload	20A Continuous	200A Continuous			240A for 10 min ON, 30 min OFF		240A for 10 min ON, 30 min OFF	20A Continuous	
Frequency Range	40Hz to 10kHz								
Load Impedance	1MΩ	1Ω			1MΩ		1MΩ	1MΩ	
Crest Factor	3 @ 10Arms with an error (due to CF) of 3%	3 @ 200A peak with an error (due to CF) of 3%			3 @ 150A peak (due to CF) of 3%		3 @ 2A ; 3 @ 150A peak with an error (due to CF) of 3%	3 @ 10Arms with an error (due to CF) of 3%.	
Working/Common Mode Voltage	600Vrms								
Output Termination	Double-insulated 5ft (1.5m) lead with two 4mm safety banana plugs	Two standard safety 4mm banana jacks	Double-insulated 5ft (1.5m) lead with two 4mm safety banana plugs	Two standard safety 4mm banana jacks	Double-insulated 5ft (1.5m) lead with two 4mm safety banana plugs				
MECHANICAL									
Operating Temperature	14° to 131°F (-10° to 55°C)								
Storage Temperature	-40° to 158°F (-40° to 70°C)								
Operating Relative Humidity	85% RH without roll-off above 95°F(95°C)								
Jaw Opening	0.83" (21mm)								
Maximum Conductor Size	0.78" max (20mm)								
Dimensions	5.47 x 2.00 x 1.18" (139 x 51 x 30mm)								
Weight	6.5 oz (180g)								
Material	Polycarbonate UL 94								
SAFETY									
Electrical	EN/IEC 61010-1 600 V CAT III, EN 61010-2-32, Pollution Degree 2								
UL Approval	Yes - Canada and United States *excludes MN379								
Protection	IP40								
Double Insulation	Yes								
CE Mark	Yes								

CATALOG NO.	DESCRIPTION
2116.23	AC Current Probe Model MN307
2116.24	AC Current Probe Model MN312
2116.25	AC Current Probe Model MN313
2116.26	AC Current Probe Model MN352
2116.27	AC Current Probe Model MN353
2116.28	AC Current Probe Model MN373
2115.41	AC Current Probe Model MN375
2153.01	AC Current Probe Model MN379

