

# 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



Model MN01



### SPECIFICATIONS

MODELS	MN01	MN02	MN03	MN05
<b>ELECTRICAL</b>				
Nominal Range	150Aac	100Aac		10; 100Aac
Measurement Range	2 to 150Aac	50mA to 100Aac (1Ω load) 50mA to 90Aac (10Ω load)	1 to 100Aac	5mA to 10Aac 1A to 100Aac
Transformation Ratio	1000:1		Voltage output	
Output Signal	1mA/A (150mAac @ 150A)	1mA/A (100mAac @ 100A)	1mV/A (100mVAC @ 100A)	1mV/mA, 1mV/A (10VAC @ 10A, 100mVAC @ 100A )
Accuracy	2.5% ± 0.15A (1Ω load) 3% ± 0.15A (10Ω load)	≤ 1% of Reading ± 0.02A (1Ω load) ≤ 1.5% of Reading ± 0.01A (10Ω load)	≤ 2% of Reading ± 50mA	≤ 3% of Reading ± 0.15mA (100 Range A) ≤ 2% of Reading ± 50mA
Phase Shift	Not specified	<3° (1Ω load) <6° (10Ω load)	Not specified	
Overload	170A for 10 min ON, 30 min OFF		150A	10A Range: 15A 100A Range: 150A
Frequency Range	48 to 500Hz	48Hz to 10kHz	48 to 500Hz	
Load Impedance	≤10Ω		≥1MΩ	
Open Secondary Voltage	≤30V		-	
Output Termination	5ft (1.5m) lead with two 4mm safety banana plugs			
<b>MECHANICAL</b>				
Operating Temperature	14° to 122°F (-10° to +50°C)			
Storage Temperature	-40° to 176°F (-40° to +80°C)			
Operating Relative Humidity	0 to 85% RH decreasing linearly above 95°F (35°C)			
Protection	IP40 (EN 60529 Ed. 1995)			
Maximum Conductor Size	Ø 0.39" (10mm)			
Dimension	4.43 x 1.48 x 1.02" (112.5 x 37.5 x 26mm)			
Weight	6.35 oz (180g)			
Material	Polycarbonate UL 94			
<b>SAFETY</b>				
Electrical	IEC 1010-2-32 300 V CAT IV, 600V CAT III Pollution Degree 2			
Double Insulation	Yes			
CE Mark	Yes			

### FEATURES

#### MODEL MN01

- "Clothes pin" shape makes them ideal for use in tight areas, such as breaker panels, controller panels or outlets
- Measurements from 1mA to 150AAC
- Excellent companions to all DMMs, permits very low AC current measurements

#### MODEL MN02

- Measurement ranges of 50mA to 100A (1Ω load) 50mA to 90A (10Ω)
- Jaw opening accommodates conductors up to 0.39" diameter
- Designed for DMMs, loggers, recorders and oscilloscopes
- 48 to 10,000Hz frequency range
- 1mA/A from 1Ω to 10Ω output signals

#### MODEL MN03

- Measurement range of 1 to 100AAC
- Jaw opening accommodates conductors up to 0.39" diameter
- Designed for DMMs, loggers, recorders and oscilloscopes
- 48Hz to 500Hz response
- 1mVAC/AAC output signals
- Designed to EN 61010, 600V CAT III safety standard

#### MODEL MN05

- Measurements from 5mA to 100AAC (Model MN05)
- Measurements from 1mA to 10AAC (Model MN114)
- Excellent companion to DMMs
- Permits very low AC current measurements

CATALOG NO.	DESCRIPTION
2129.17	AC Current Probe Model MN01
2129.20	AC Current Probe Model MN02
2129.18	AC Current Probe Model MN03
2129.19	AC Current Probe Model MN05

