

# 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*



MN01



### SPECIFICATIONS

MODELS	MN01	MN02	MN03	MN05	MN09
<b>ELECTRICAL</b>					
Nominal Range	150AAC	100AAC		10; 100AAC	150AAC
Measurement Range	2 to 150AAC	50mA to 100AAC (1Ω load) 50mA to 90AAC (10Ω load)	1 to 100AAC	5mA to 10AAC 1A to 100AAC	1 to 150AAC
Transformation Ratio	1000:1		Voltage output		N/A
Output Signal	1mA/A (150mAAC @ 150A)	1mA/A (100mAAC @ 100A)	1mV/A (100mVAC @ 100A)	1mV/mA, 1mV/A (10VAC @ 10A, 100mVAC @ 100A)	100mV/A (15VDC @ 150AAC)
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	170A for 10 min ON, 30 min OFF
Frequency Range	48 to 500Hz	48Hz to 10kHz	48 to 500Hz		
Load Impedance	≤10Ω		≥1MΩ		≥50KΩ
Open Secondary Voltage	≤30V		-		≤30V
Output Termination	5 ft (1.5m) lead with two 4mm safety banana plugs				
<b>MECHANICAL</b>					
Maximum Conductor Size	Ø 0.39" (10mm)				
Dimension	5.12 x 1.5 x 1" (130 x 37 x 25mm)				
Weight	6.35 oz (180g)				
Material	Polycarbonate UL 94 V2				
<b>ENVIRONMENTAL</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)				
<b>SAFETY</b>					
Safety Rating	IEC 61010-2-32: 300 V CAT IV, 600V CAT III, Pollution Degree 2				
Ingress Protection	IP40				
Double Insulation	Yes				
CE Mark	Yes				

### 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" diameter

#### MN01

- Measurements from 1mA to 150AAC
- Excellent companions to all DMMs, permits very low AC current measurements

#### MN02

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

#### MN03

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

#### MN05

- Measurements from 5mA to 100AAC
- Measurements from 1mA to 10AAC
- Permits very low AC current measurements

#### MN09

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

CATALOG NO.	DESCRIPTION
2129.17	AC Current Probe Model MN01 (150A, 1mA/A, Lead)
2129.20	AC Current Probe Model MN02 (100A, 1mA/A, Lead, 1% Accuracy)
2129.18	AC Current Probe Model MN03 (100A, 1mV/A, Lead)
2129.19	AC Current Probe Model MN05 (100A, 1mV/A & 10A, 1V/A, Lead)
2129.21	AC Current Probe Model MN09 (150A, 100mVDC/AAC, Lead)

