

# CURRENT MEASUREMENT PROBES

## MN SERIES AC CURRENT PROBES

### MN200 SERIES

General purpose AC current probe with voltage outputs, for use with DMMs or with measuring instruments with voltage inputs. Permits measurement or recording of current with instruments that do not have current ranges. Voltage output proportional to current measured



Model MN213



### SPECIFICATIONS

MODELS	MN213	MN251	MN253	MN255	MN291
<b>Nominal Range</b>	200A <sub>AC</sub>	200A <sub>AC</sub>	200A <sub>AC</sub>	20A <sub>AC</sub> ; 200A <sub>AC</sub>	200A <sub>AC</sub>
<b>Measurement Range</b>	0.5 to 240A <sub>AC</sub>	0.1 to 240A <sub>AC</sub>		0.1 to 24A <sub>AC</sub> ; 0.1 to 240A <sub>AC</sub>	0.5 to 240A <sub>AC</sub>
<b>Transformation Ratio</b>	1000: 1	Voltage output	Voltage output	Voltage output	DC Voltage output
<b>Output Signal</b>	1mA/A (200mA <sub>AC</sub> @ 200A)	1 mV/A (200mV <sub>AC</sub> @ 200A)	10 mV <sub>AC</sub> /A (2V <sub>AC</sub> @ 200A)	20A: 100mV/A (20V <sub>AC</sub> @ 200A) 200A: 10mV/A (2V <sub>AC</sub> @ 200A)	100mV/A (20V <sub>DC</sub> @ 200A)
<b>Accuracy</b>					
(20A Range)		-		1% ± 50mV	-
(200A Range)					
0.5 to 10A		3% of Reading ± 0.5 A		3% of Reading ± 0.5 A	3% of Reading ± 0.5 A
10 to 40A		2.5% of Reading ± 0.5 A		2.5% of Reading ± 0.5 A	2.5% of Reading ± 0.5 A
40 to 100A		2% of Reading ± 0.5 A		2% of Reading ± 0.5 A	2% of Reading ± 0.5 A
100 to 240A		1% of Reading ± 0.5A		1% of Reading ± 0.5 A	2% of Reading
<b>Phase Shift</b>					
(20A Range)		-		Not Specified	
(200A Range)					
0.5 to 10A		Not Specified		Not Specified	N/A
10 to 40A		≤5°		≤5°	
40 to 100A		≤3°		≤3°	
100 to 240A		≤2.5°		≤2.5°	
<b>Overload</b>	240A for 10 min ON, 30 min OFF				
<b>Frequency Range</b>	40Hz to 10kHz				
<b>Load Impedance</b>	1Ω, 10Ω max. with derating	>1MΩ			
<b>Working/Common Mode Voltage</b>	600V				
<b>Output Termination</b>	Double-insulated 5ft (1.5m) lead with two 4mm safety banana plugs				
<b>MECHANICAL</b>					
<b>Operating Temperature</b>	14° to 131°F (-10° to 55°C)				
<b>Storage Temperature</b>	-40° to 158°F (-40° to 70°C)				
<b>Operating Relative Humidity</b>	10 to 90% RH				
<b>Jaw Opening</b>	0.83" (21mm)				
<b>Maximum Conductor Size</b>	Ø 0.78" max (20mm)				
<b>Maximum Bus Bar size</b>	0.78 x 0.19" (20 x 5mm)				
<b>Dimensions</b>	5.47 x 2.00 x 1.18" (139 x 51 x 30mm)				
<b>Weight</b>	6.5 oz (180g)				
<b>Material</b>	Polycarbonate UL 94				
<b>SAFETY</b>					
<b>Electrical</b>	EN/IEC 61010-2-32 600 V CAT III, EN/IEC 61010-032				
<b>UL Approval</b>	Yes - Canada and United States				
<b>Protection</b>	IP40				
<b>Double Insulation</b>	Yes				
<b>CE Mark</b>	Yes				

### FEATURES

- Small compact size
- Measurement ranges from 100mA to 240A
- Frequency response to 10kHz
- UL approved for both US and Canada
- Designed to EN61010, 600V CAT III
- Jaw opening accommodates 250kcmil cables
- Constructed with UL94VO flame retardant material
- Double insulated construction

CATALOG NO.	DESCRIPTION
2115.75	AC Current Probe Model MN213
2115.77	AC Current Probe Model MN251
2115.79	AC Current Probe Model MN253
2115.81	AC Current Probe Model MN255
2115.84	AC Current Probe Model MN291