

AC Current Probe Model MN103



Small, compact and very tough, the Model MN103 is designed for measurements from 1mA to 100Aac. The “clothes pin” shape makes it ideal for use in tight areas, such as breaker panels, controller panels or outlets. It is an excellent companion to all DMMs.

The Model MN103 provides a voltage output proportional to measured

current (1mV/mA and 1mV/A). This voltage output enables instruments with AC voltage ranges to measure, display or log currents. The Model MN103 permits True RMS measurements when used with a True RMS instrument.

The Model MN103 permits very low AC current measurements.

Features

- Small, compact and very tough AC probes
- “Clothes pin” shape makes them ideal for use in tight areas, such as breaker panels, controller panels, or outlets
- Measurements from 1mA to 100Aac
- Excellent companion to all DMMs. Permits very low AC current measurements

Applications

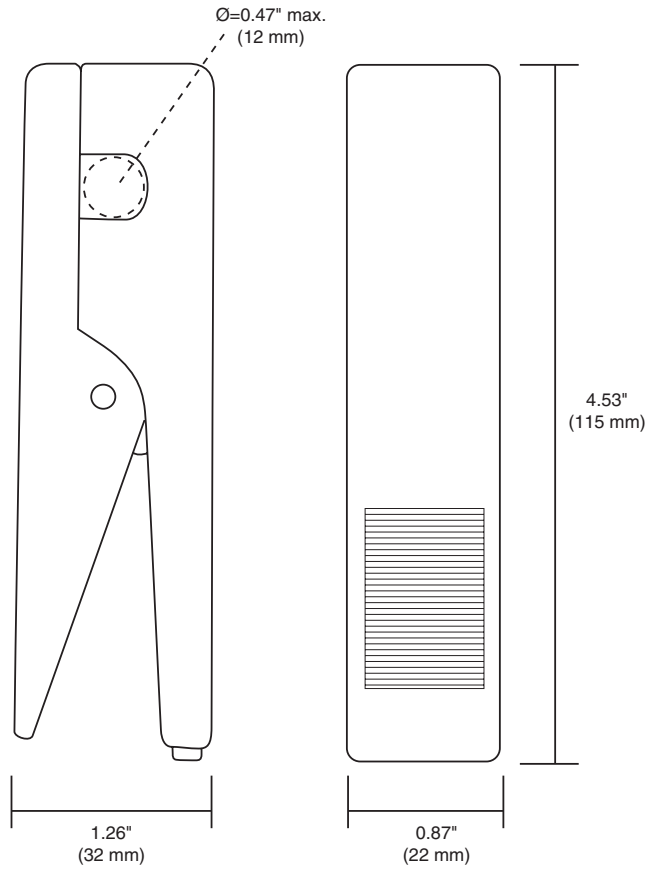
- Electrical utility
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

Specifications

MODELS	MN103
ELECTRICAL	
Nominal Range	100A
Measurement Range	1mA to 10A/ 1A to 100A
Transformation Ratio	Voltage output
Output Signal	1mV/mA/1mVAC/AAC
Accuracy (10A Range) 1mA to 10A 1mA to 10A	45 to 65Hz: $\pm 3\%$ of Reading ± 1 mA 65 to 500Hz: -2, +6% of Reading ± 1 mA
Phase Shift (10A Range)	-
Accuracy (100A Range) 1 to 100A 40Hz to 3kHz 45 to 65Hz: 65 to 500Hz:	- - $\pm 2\%$ of Reading ± 0.1 A $+3\%$ of Reading ± 0.1 A
Phase Shift (100A Range) 1 to 100A	-
Overload	-
Frequency Range	45 to 1000Hz
Load Impedance	100k Ω min
Working/Common Mode Voltage	250VAC
Output Termination	5 ft Lead
MECHANICAL	
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-40° to 176°F (-40° to 80°C)
Operating Relative Humidity	10 to 35°C 85% RH (without roll-off above 35°C)
Jaw Opening	0.78" (20mm)
Maximum Conductor Size	0.47"Ø max (12mm)
Dimensions	1.26 x 4.53 x 0.87" (32 x 115 x 22mm)
Weight	5.6 oz (160g)
Polycarbonate Material	Handles 10% fiberglass charged polycarbonate UL94 V0
SAFETY	
Electrical	250V working voltage, 250V max common mode between output and ground, 3kV 50/60Hz dielectric for 1mm

Note: Reference conditions:

23°C ± 3 K, 20 to 70%RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, load impedance 1M Ω .



Leads:
 Double/reinforced
 5 ft (1.5m) lead
 with safety 4mm
 banana plug

ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model MN103 (Lead – 1mV/mA – 10A max & 1mV/A – 100A max)	Cat. #1031.02
Includes a user manual	
Accessories (Optional)	
Banana plug adaptor (to nonrecessed plug)	Cat. #1017.45

Contact Us

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