AC Current Probe
Model MN185



Small, compact and very tough, the Model MN185 is designed for measurements from 50mA to 120AAC. The “clothes pin” shape makes it ideal for use in tight areas, such as breaker panels, controller panels or outlets. It is an excellent companions to all DMMs.

The Model MN185 works as a traditional current transformer (with 1000:1) and provides current outputs (mA) for use with DMMs, recorders or instruments with current ranges. The Model MN185 permits True RMS measurements when used with a True RMS instrument.

The Model MN185 uses special magnetic cores to provide higher accuracy and lower phase shift.

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 50mA to 120AAC
- Excellent companion to all DMMs. Permits very low AC current measurements

Applications

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

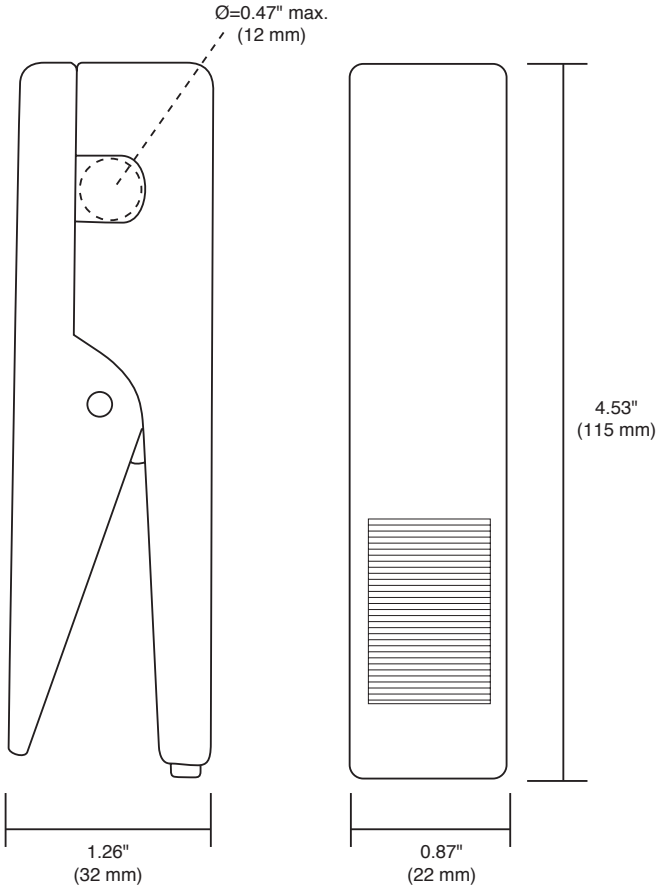
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Specifications

MODELS	MN185
ELECTRICAL	
Nominal Range	150A
Measurement Range	50mA to 150A
Transformation Ratio	1000:1
Output Signal	1mA$_{AC}$/A$_{AC}$ (120mA @ 120A)
Accuracy (120A Range) 50mA to 100A	1% of Reading ± 0.01A (with noninductive load)
100 to 120A	1.5% of Reading ± 0.01A
Phase Shift (120A Range) 1 to 100A/ 50 to 60Hz	≤3.5°
Overload	170A continuous
Frequency Range	30Hz to 10kHz
Load Impedance	5Ω max
Working/Common Mode Voltage	250V$_{AC}$/30V$_{AC}$
Output Termination	Jack
MECHANICAL	
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 VO
ENVIRONMENTAL	
Operating Temperature	13° to 122°F (-25° 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)
SAFETY	
Electrical	30V max common between output & ground; 3kV50/60Hz dielectric for 1mm

Note: Reference conditions:
23°C ±3K, 20 to 85%RH, 48 to 65Hz, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, load impedance 1Ω.

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Jacks:
Two standard safety banana jacks (4mm)

AC Current Probe Model MN185 (Jack – 1mA/A – 100A max)	**Cat. #100.185**
Includes a user manual	
Accessories (Optional)	
Pair, safety current leads (5 ft retractable rated 250V)	Cat. #100.319
Pair, current leads (39" color-coded)	Cat. #100.361
Banana plug adaptor (to nonrecessed plug)	Cat. #1017.45

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