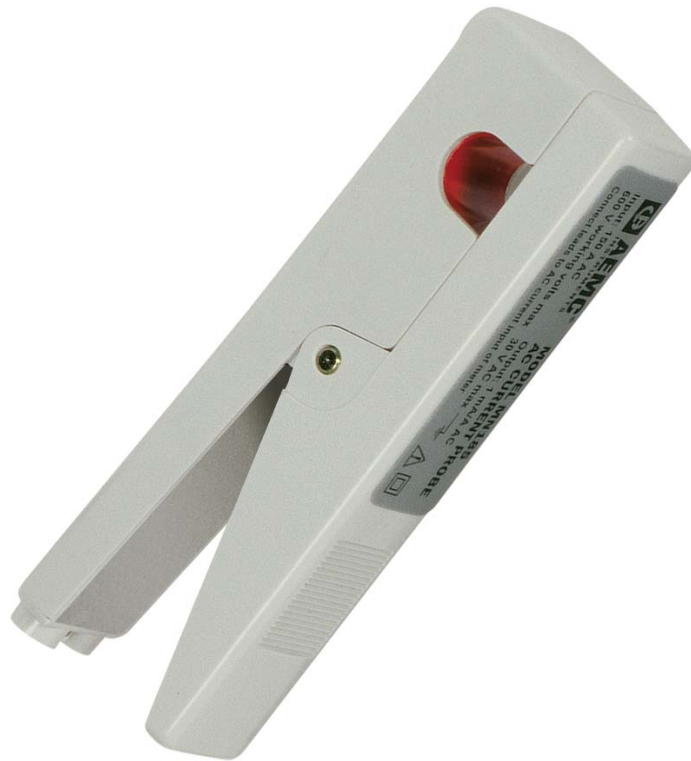


# AC Current Probe Model MN185



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

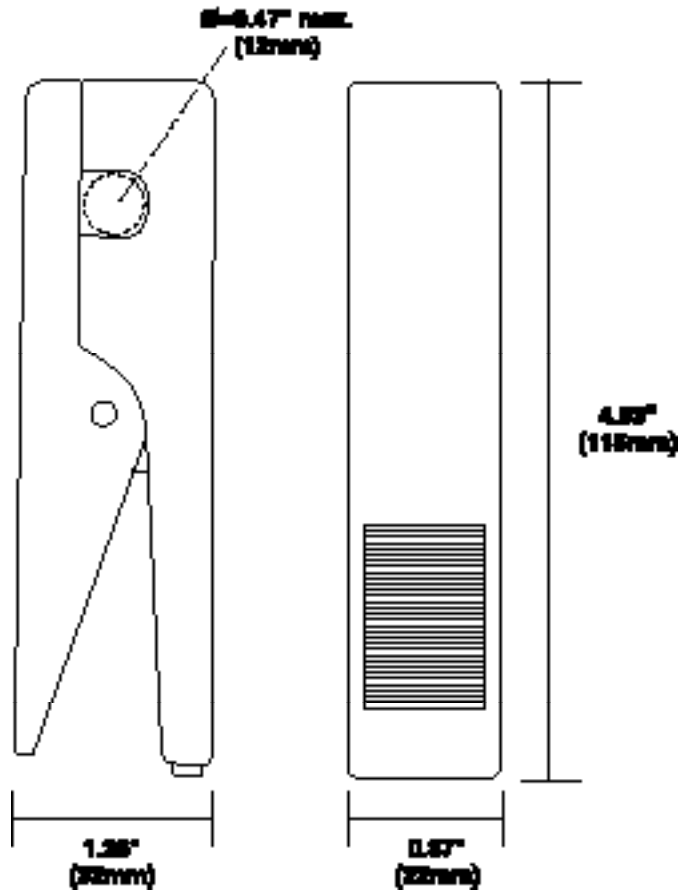
- Electrical utility
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

# Specifications

MODELS	MN185
<b>Nominal Range</b>	120A
<b>Measurement Range</b>	50mA to 120A
<b>Transformation Ratio</b>	1000:1
<b>Output Signal</b>	1mA <sub>AC</sub> /A <sub>AC</sub> (150mA @ 120A)
<b>Accuracy</b> (120A Range) 50mA to 100A 100 to 120A	1% of Reading ± 0.01A (with noninductive load) 1.5% of Reading ± 0.01A
<b>Phase Shift</b> (120A Range) 1 to 100A/ 50 to 60Hz	≤3.5°
<b>Overload</b>	170A continuous
<b>Frequency Range</b>	30Hz to 10kHz
<b>Load Impedance</b>	5Ω max
<b>Working/Common Mode Voltage</b>	250V <sub>AC</sub> /30V <sub>AC</sub>
<b>Output Termination</b>	Jack
<b>Operating Temperature</b>	13° to 122°F (-25° to 50°C)
<b>Storage Temperature</b>	-40° to 176°F (-40° to 80°C)
<b>Operating Relative Humidity</b>	10 to 35°C 85% RH (without roll-off above 35°C)
<b>Jaw Opening</b>	0.78" (20mm)
<b>Maximum Conductor Size</b>	0.47"Ø max (12mm)
<b>Dimensions</b>	1.26 x 4.53 x 0.87" (32 x 115 x 22mm)
<b>Weight</b>	5.6 oz (160g)
<b>Polycarbonate Material</b>	Handles 10% fiberglass charged polycarbonate UL94 V0
<b>Electrical</b>	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.



**Jacks:**  
Two standard safety banana jacks (4mm)

ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model MN185 (Jack – 1mA/A – 100A max).....	Cat. #100.185
Includes a user manual	
<b>Accessories (Optional)</b>	
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

## Contact Us

### United States & Canada:

Chauvin Arnoux®, Inc.  
d.b.a. AEMC® Instruments  
200 Foxborough Blvd.  
Foxborough, MA 02035 USA  
(508) 698-2115 • Fax (508) 698-2118  
www.aemc.com

**Customer Support – for placing an order, obtaining price & delivery:**  
customerservice@aemc.com

**Sales Department – for general sales information:**  
sales@aemc.com

**Repair and Calibration Service – for information on repair & calibration, obtaining a user manual:**  
repair@aemc.com

**Technical and Product Application Support – for technical and application support:**  
techinfo@aemc.com

**Webmaster – for information regarding www.aemc.com:**  
webmaster@aemc.com

### South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux®, Inc.  
d.b.a. AEMC® Instruments  
15 Faraday Drive  
Dover, NH 03820 USA  
(978) 526-7667 • Fax (978) 526-7605  
export@aemc.com  
www.aemc.com

### All other countries:

Chauvin Arnoux SCA  
190, rue Championnet  
75876 Paris Cedex 18, France  
33 1 44 85 45 28 • Fax 33 1 46 27 73 89  
info@chauvin-arnoux.com  
www.chauvin-arnoux.com