

AC Current Probe Model MN313



The Model MN313 is the latest in compact AC current probes. It is designed to meet the most stringent demands in industry and electrical contracting. Model MN313 meets EN 61010, 600V, Cat. III safety standards and is CE Marked and UL approved for Canada and United States.

The Model MN313 has a 0.78" (20mm) jaw opening and accommodate conductors up to 250MCM. The unique hooked jaw design facilitates clamping and hooking onto conductors. Polycarbonate materials and ultrasonic welding are used throughout to ensure ruggedness and overall lasting reliability.

The Model MN313 is a high performance model and uses a custom nickel core to improve accuracy and phase shift on the low end of the measurement range. The model MN313 is an excellent probe to be used in power and low level current measurement applications.

Features

- Small, compact size
- Measurement range of 0.1 to 240AAC
- Large jaw opening accommodates conductors up to 250MCM
- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
- 1mAAC/AAC output signals
- Designed to EN 61010, 600V Cat. III safety standard
- UL approved for Canada and United States
- Double Insulation
- CE Mark

Applications

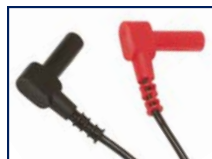
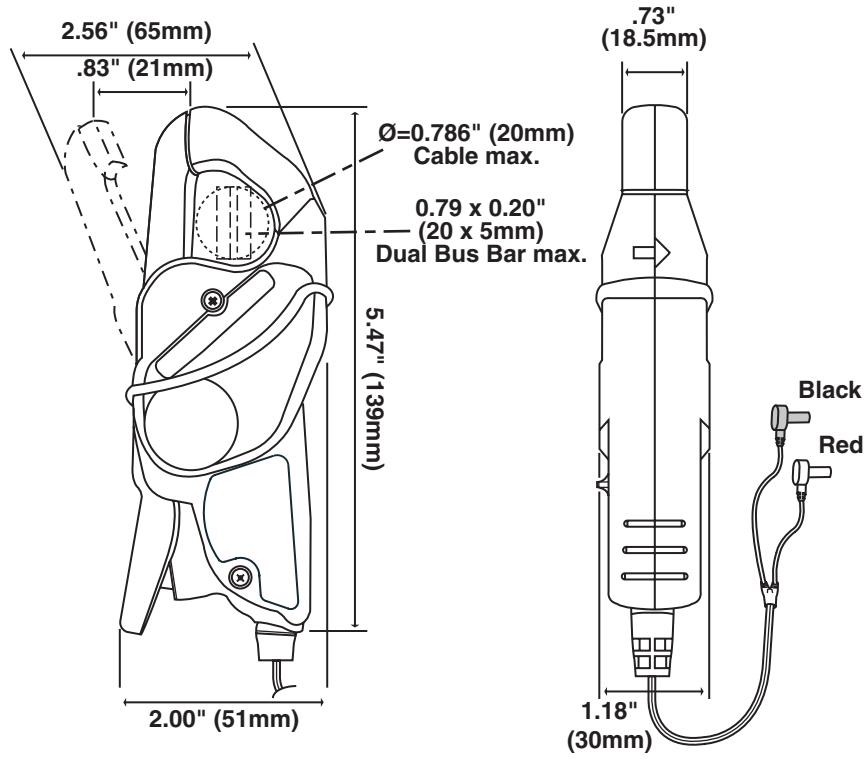
- Measuring in breaker panels
- Industrial loads
- HVAC
- Residential and commercial sites
- Data logging/recording

Specifications

MODEL	MN313*
ELECTRICAL	
Nominal Range	200A
Measurement Range	0.1 to 240A
Transformation Ratio	1000:1
Output Signal	1mA/A (100mA @ 100A _{AC})
Accuracy (200A Range)	
0.1 to 1A	2% of Reading ± 0.02mA
1 to 80A	1% of Reading ± 0.02mA
80 to 100A	2% of Reading ± 0.1mA
100 to 150A	2.5% of Reading ± 0.5mA
150 to 200A	Not Specified
Phase Shift (200A Range)	
0.1 to 1A	Not Specified
1 to 20A	≤3.0°
20 to 80A	≤2.0°
80 to 150A	≤2.5°
Overload	-
Frequency Range	40 to 10kHz
Limit Operating Conditions	200A permanently to 3kHz; Derating above 3kHz: 200A x (1/0.333F), F in kHz
Crest Factor	5 @ 280A Peak with an error (due to CF) of 5%
Working/Common Mode Voltage	600Vrms
Output Termination	5 ft Lead
MECHANICAL	
Operating Temperature	14° to 131°F (-10° to 55°C)
Storage Temperature	-40° to 158°F (-40° to 70°C)
Operating Relative Humidity	10 to 35°C 85% RH (without roll-off above 35°C)
Jaw Opening	0.83" (21mm)
Maximum Conductor Size	0.78" (20mm)
Dimensions	5.47 x 2.00 x 1.18" (139 x 51 x 30mm)
Weight	6.5 oz (180g)
Polycarbonate Material	Polycarbonate with fiberglass charge, UL94 V0
SAFETY	
Electrical	EN 61010-2-32
UL Approval	Yes – Canada and United States
Double Insulation <input type="checkbox"/>	Yes
CE Mark	Yes

Note: Reference conditions: 20 to 26°C, 20 to 75% RH, external magnetic field <40A/m, 48 to 65Hz sine wave, distortion factor less than 1%, no DC component, no external current carrying conductor, test sample centered. Load impedance > 1Ω

*Diode protection for open secondary (output)



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

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model MN313 (Lead – 1mA/A – 150A max)..... **Cat. #2116.25**

Includes a user manual

Accessories (Optional)

Banana plug adaptor (Safety Leads to nonrecessed plug)..... **Cat. #1017.45**

Banana (Female) – BNC (Male) Adaptor..... **Cat. #2118.46**

Contact Us

United States and 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 and delivery:
customerservice@aemc.com

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

Repair and Calibration Service – for information on repair and 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 and 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