

AC Current Probe Model MN306



The Model MN306 is the latest in compact AC current probes. It is designed to meet the most stringent demands in industry and electrical contracting. Model MN306 meets EN 61010, 600V, Cat. III safety standards and is CE Marked and UL approved.

The Model MN306 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 MN306 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 MN306 is an excellent probe to be used in power and low level current measurement applications.

Features

- Small, compact size
- Measurement range of 0.01 to 12Aac
- Large jaw opening accommodates conductors up to 250MCM
- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
- 100mV/Aac output signals
- Conforms to EN 61010, 600V Cat. III safety standard
- CE Mark
- UL approved

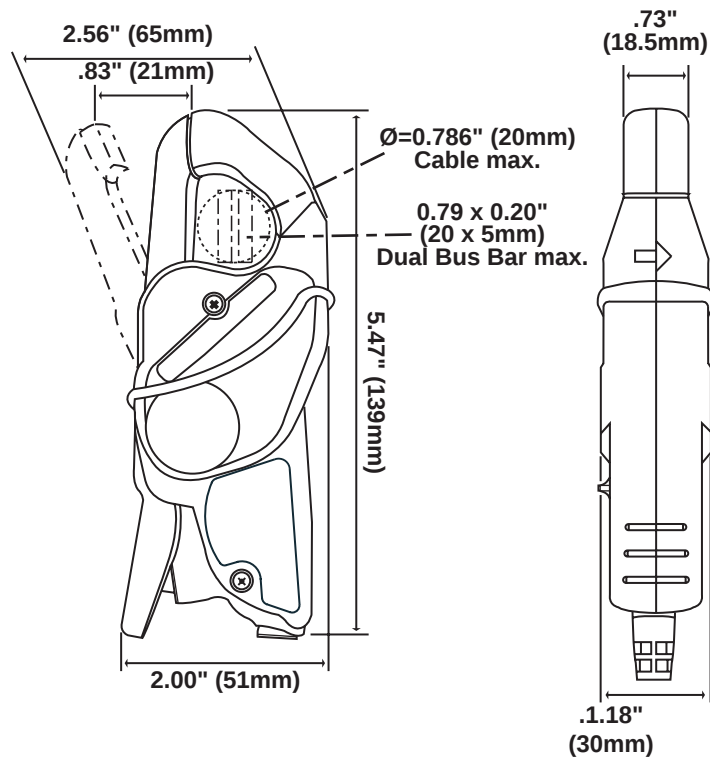
Applications

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

Specifications

MODEL	MN306
ELECTRICAL	
Nominal Range	10A
Measurement Range	0.01 to 12A
Transformation Ratio	Voltage output
Output Signal	100mV/A (1V @ 10A)
Accuracy (10A Range)	
0.1 to 0.5A	$\leq 2.5\%$ of Reading $\pm 0.1\text{mV}$
0.5 to 1A	$\leq 2.5\%$ of Reading
1 to 12A	$\leq 1.0\%$ of Reading
Phase Shift (10A Range)	
0.01 to 0.1A	Not Specified
0.1 to 1A	$\leq 5.0^\circ$
1 to 5A	$\leq 3.0^\circ$
5 to 12A	$\leq 2.5^\circ$
Overload	12A for Continuous
Frequency Range	40 to 10kHz
Limit Operating Conditions	200A permanently to 3kHz; Derating above 3kHz: $200\text{A} \times (1/0.333\text{F})$, F in kHz
Crest Factor	3 @ 10Arms with an error (due to CF) of 3%
Working/Common Mode Voltage	600Vrms
Output Termination	Jack
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
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



Jacks:
Two standard
safety banana
jacks (4mm)

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model MN306 (Jack – 100mV/A – 12A max)	Cat. #2116.22
Includes a user manual	
Accessories (Optional)	
Leads, set of 2, 5 ft safety (1000V)	Cat. #2111.29
Banana plug adaptor (Safety Leads to nonrecessed plug)	Cat. #1017.45
Banana (Female) – BNC (Male) Adaptor	Cat. #2118.46

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