

AC Current Probe Model MD314



The Model MD314 is built for ruggedness, versatility and ease of use. It is designed with a unique hook-shaped jaw that enables the user to “pry” into or “hook” onto cables (will accept 2 x 500MCM) or even smaller bus bars.

The Model MD314 measures up to 600A. It provides a voltage output proportional to the measured current (1mV/A or 10mV/A). This voltage

output enables instruments without current ranges to measure, display or log currents on an AC voltage range.

The Model MD314 uses Hall effect technology and measure to 1000Aac and 700Aac. The electronics and batteries are self-contained in the handles. The output of AC probes is 1mV/A.

Features

- Unique hook-shaped jaws that enable the user to “pry” into or “hook” onto cables
- Maximum conductor size is 2 x 500MCM
- Works as a traditional current transformer with ratio of 1000:1

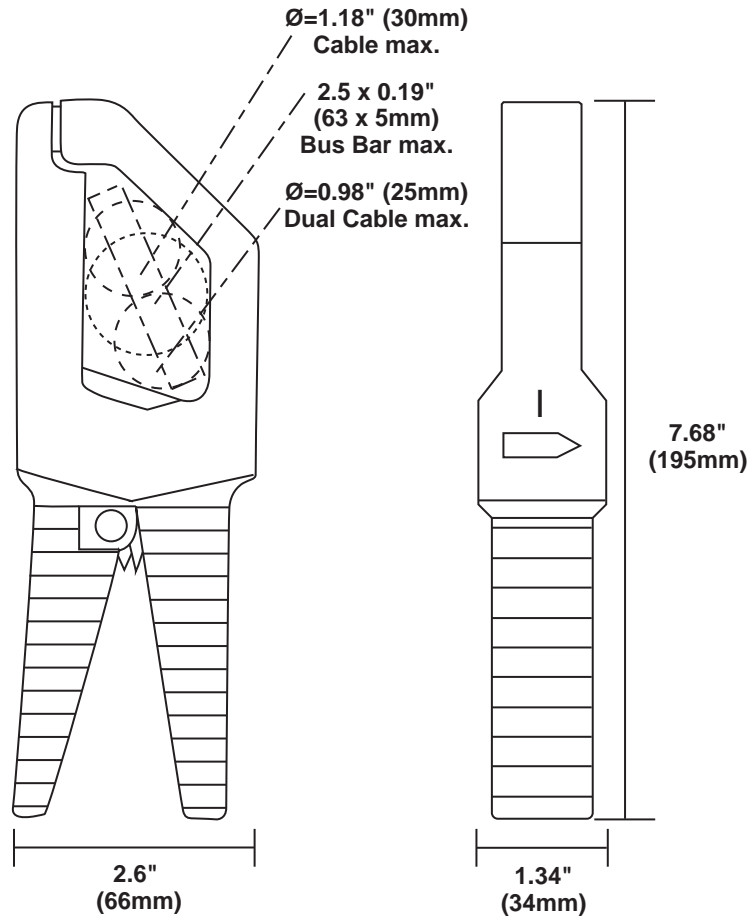
Applications

- Electric utility
- Field testing
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

Specifications

MODEL	MD314
ELECTRICAL	
Nominal Range	500A
Measurement Range	4 to 700A
Transformation Ratio	Voltage output
Output Signal	1mVAC/AAC (500mV @ 500AAC)
Accuracy (500A Range)	
25A	4.5% of Reading
100A	3.5% of Reading
250A & 500A	3% of Reading
600A	-
48 to 440Hz	2.5% of Reading ± 0.6A
440 to 1000Hz	3.5% of Reading ± 0.6A
Phase Shift (500A Range)	
25A	4°
100A	2°
250A & 500A	2° Overload 700A for 10 min
Frequency Range	48 to 1000Hz
Load Impedance	5Ω max noninductive
Working/Common Mode Voltage	600Vrms
Output Termination	5 ft Lead
MECHANICAL	
Operating Temperature	-5° to 122°F (-15° to 50°C)
Storage Temperature	-40° to 185°F (-40° to 85°C)
Jaw Opening	1.3" (33mm)
Maximum Conductor Size	1.18" (30mm), Max Bus Bar size: 2.48 x 0.20" (63 x 5mm)
Dimensions	2.6 x 7.68 x 1.34" (66 x 195 x 34mm)
Weight	14.82 oz (420g)
Polycarbonate Material	10% fiberglass charged polycarbonate UL94 V0
SAFETY	
Electrical	EN 61010-2-032; 600V, Cat. III, Pollution: 2; 300V, Cat. IV, Pollution: 2
Electromagnetic Compatibility	EN 50081-1 Class B; EN 50082-2 Electrostatic discharge IEC 1000-4-2; Radiated field IEC 1000-4-3; Fast transients IEC 1000-4-4; magnetic field at 50/60Hz IEC 1000-4-8
CE Mark	Yes

Note: Reference conditions:
 23°C ± 3°K, 20 to 75% RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, 1Ω load.



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

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model MD314 (Lead – 100mV/A – 10A max)	Cat. #2110.75
Includes a user manual	
Accessories (Optional)	
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