

# AC Current Probe Model MD305



The Model MD305 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 MD305 measures up to 600A. It works as a traditional current transformer (with ratio of 1000:1) and provides current outputs (mA) for use on DMMs, recorders or instruments with current ranges.

## 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
- Double Insulation
- CE Mark

## Applications

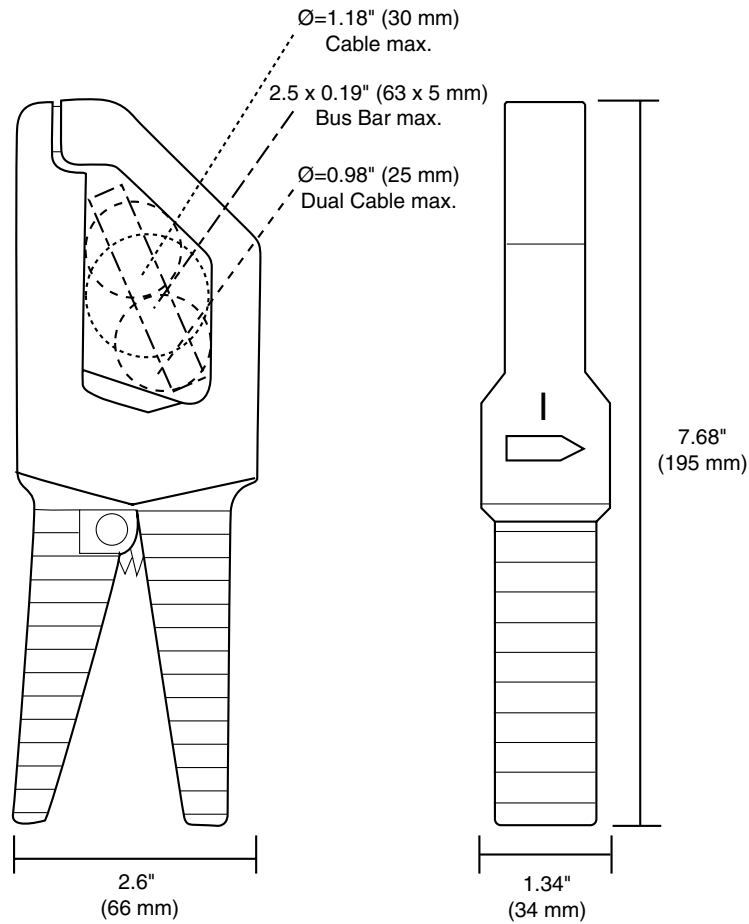
- Electric utility
- Field testing
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

## Specifications

MODEL	MD305
<b>ELECTRICAL</b>	
Nominal Range	600A
Measurement Range	1 to 700A
Transformation Ratio	1000:1
Output Signal	1mAac/Aac
Accuracy (600A Range)	
25A	3% of Reading
100A	1.5% of Reading
250A & 500A	1% of Reading
600A	2% of Reading
48 to 440 Hz	-
440 to 1000Hz	-
Phase Shift (600A Range)	
25A	3°
100A	1.5°
250A & 500A	1°
600A	1°
45 to 1000Hz	-
Overload	700A for 10 min
Frequency Range	48 to 1000Hz (error: add 2% to ref.)
Load Impedance	5Ω max noninductive
Working/Common Mode Voltage	600Vrms
Output Termination	5 ft Lead
<b>MECHANICAL</b>	
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
<b>SAFETY</b>	
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
Double Insulation <input type="checkbox"/>	Yes
CE Mark	Yes

Note: Reference conditions:

Model MD305: 23°C ± 5°K, 20 to 75% RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, 5Ω load.



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

**ORDERING INFORMATION**

**CATALOG NO.**

**AC Current Probe Model MD305** (Lead – 1mA/A – 600A max) ..... **Cat. #1201.36**

Includes a user manual

**Accessories (Optional)**

Banana plug adaptor (to nonrecessed plug) .....Cat. #1017.45

## Contact Us

### United States & Canada:

Chauvin Arnoux<sup>®</sup>, Inc.  
d.b.a. AEMC<sup>®</sup> Instruments  
200 Foxborough Blvd.  
Foxborough, MA 02035 USA  
(508) 698-2115 • Fax (508) 698-2118  
[www.aemc.com](http://www.aemc.com)

**Customer Support – for placing an order, obtaining price and delivery:**  
[customerservice@aemc.com](mailto:customerservice@aemc.com)

**Sales Department – for general sales information:**  
[sales@aemc.com](mailto:sales@aemc.com)

**Repair and Calibration Service – for information on repair and calibration, obtaining a user manual:**  
[repair@aemc.com](mailto:repair@aemc.com)

**Technical and Product Application Support – for technical and application support:**  
[techinfo@aemc.com](mailto:techinfo@aemc.com)

**Webmaster – for information regarding [www.aemc.com](http://www.aemc.com):**  
[webmaster@aemc.com](mailto:webmaster@aemc.com)

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

Chauvin Arnoux<sup>®</sup>, Inc.  
d.b.a. AEMC<sup>®</sup> Instruments  
15 Faraday Drive  
Dover, NH 03820 USA  
(978) 526-7667 • Fax (978) 526-7605  
[export@aemc.com](mailto:export@aemc.com)  
[www.aemc.com](http://www.aemc.com)

### All other countries:

Chauvin Arnoux<sup>®</sup> 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](mailto:info@chauvin-arnoux.com)  
[www.chauvin-arnoux.com](http://www.chauvin-arnoux.com)