

# AC Current Probe Model MD301



The Model MD301 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 500kcmil) or even smaller bus bars.

The Model MD301 measures up to 500A. It provides a voltage output proportional to the measured current.

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

The electronics and batteries are self-contained in the handles. The output of AC probes is 1mVDC/AAC.

## Features

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

## Applications

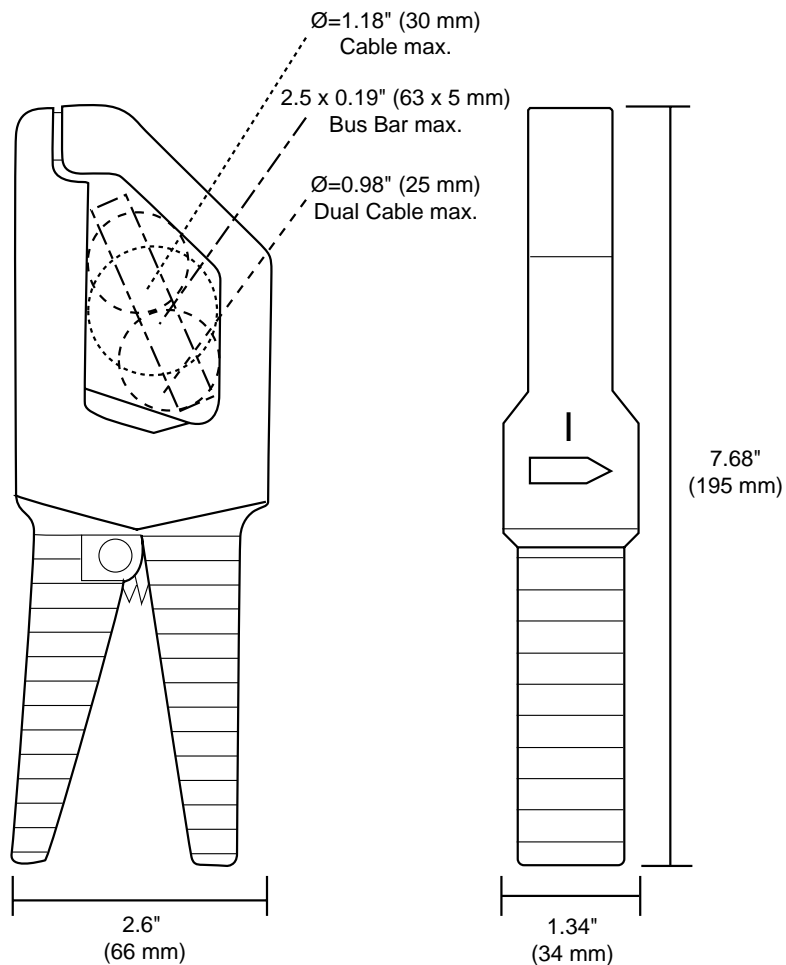
- Electric utility
- Field testing
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

## Specifications

MODEL	MD301
<b>ELECTRICAL</b>	
Nominal Range	500A
Measurement Range	2 to 500Aac
Transformation Ratio	Voltage output
Output Signal	1mVdc/Aac
Accuracy (500A Range)	
25A	5% of Reading
100A	2% of Reading
250A	1% of Reading
500A	1% of Reading
Phase Shift	
25A	—
100A	—
250A	—
500A	—
Overload	700A for 10 min
Frequency Range	48 to 1000Hz (error: add 2% to the ref.)
Load Impedance	≥100kΩ
Working Voltage	600Vrms
Common 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	Handles: 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:

23°C ± 5°K, 20 to 75% RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, 10Ω load.



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

#### ORDERING INFORMATION

#### CATALOG NO.

**AC Current Probe Model MD301** (Lead – 1mV<sub>DC</sub>/AAC – 500A max)..... **Cat. #1201.07**

Includes a user manual

#### Accessories (Optional)

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