

# 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 1000Adc 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
- Double Insulation
- CE Mark

## Applications

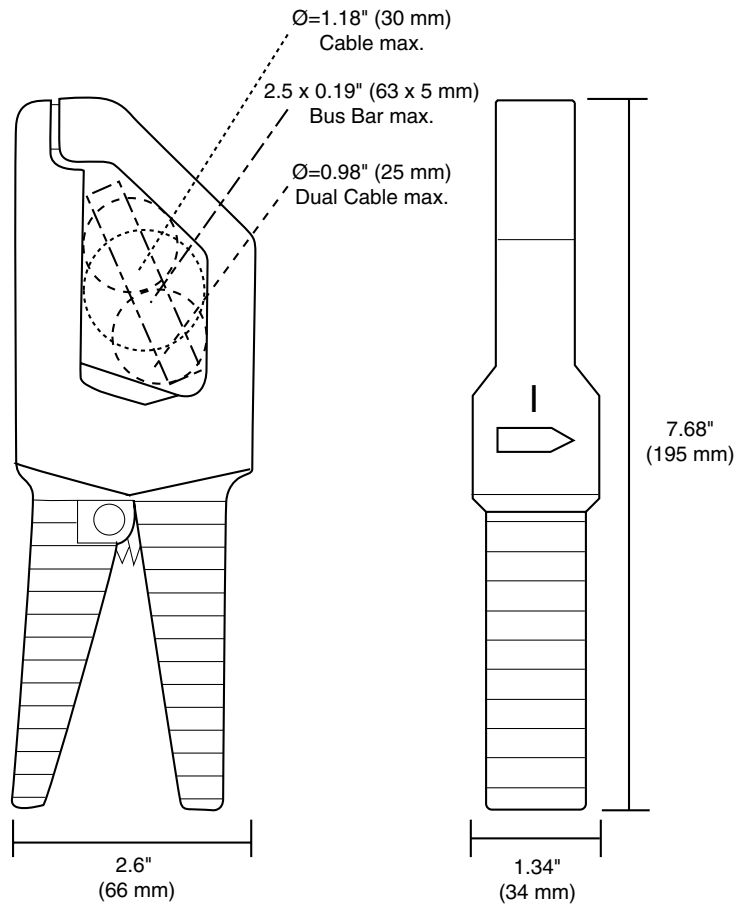
- Electric utility
- Field testing
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

## Specifications

MODEL	MD314
<b>ELECTRICAL</b>	
Nominal Range	500A
Measurement Range	4 to 700A
Transformation Ratio	Voltage output
Output Signal	1mV <sub>AC</sub> /A <sub>AC</sub> (500mV @ 500A <sub>AC</sub> )
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	1MΩ 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:

23°C ± 3°K, 20 to 75% RH, 45 to 65Hz external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, 1MΩ 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

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