

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 1000A_{ac} and 700A_{ac}. 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

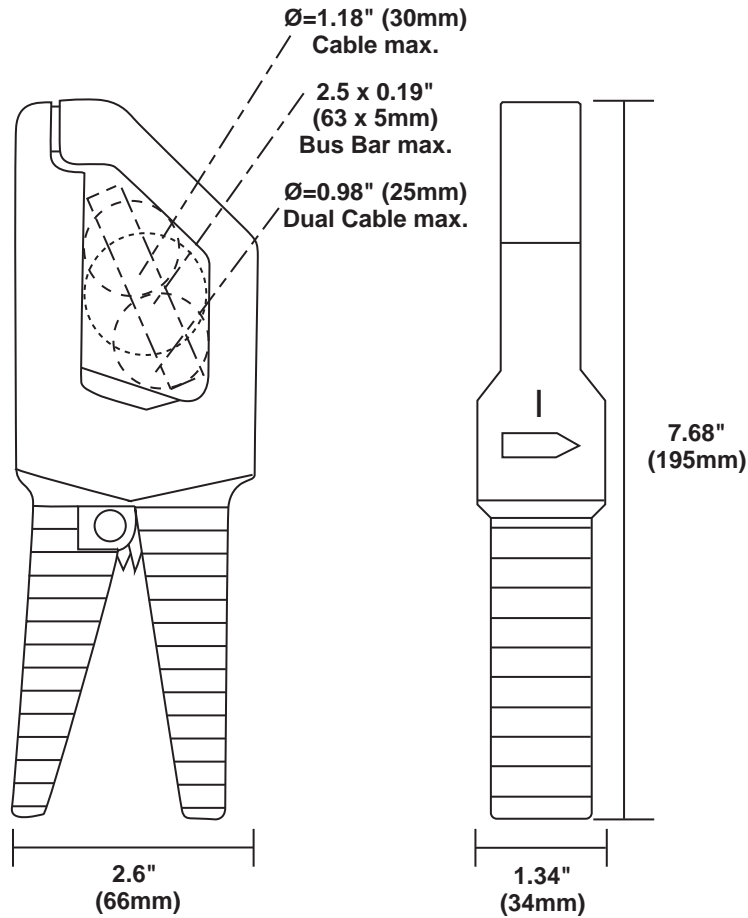
- Electric utility
- Field testing
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

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

To Order Contact: Cal-Tek Company, Inc.

20 Republic Road, North Billerica, MA 01862

Phone: (800) 447-4020 Fax: (978) 667-8901 www.repaircalibration.com