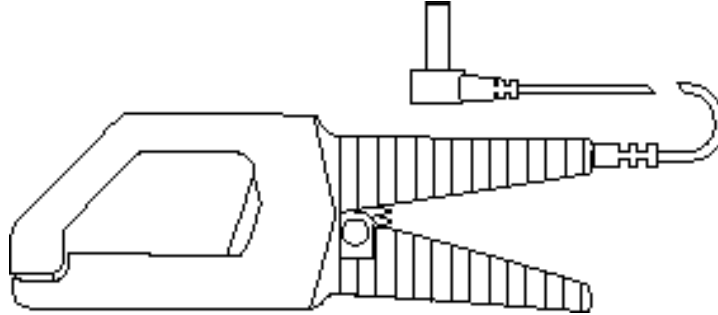


AC Current Probe Model MD314

MD Series Probes

Current:	500 A AC
Output:	1 mV/A



ELECTRICAL SPECIFICATIONS

Current Range:
4 to 500 A AC

Output Signal:
1 mV AC/ A AC (500 mV at 500 A AC)

Accuracy*:
48 to 440 Hz: $\pm 2.5\%$ of reading + 0.6 A
440 to 1000 Hz: 3.5% of reading ± 0.6 A

Phase Shift: $< 7^\circ$ from 45 to 1000 Hz

Overload: 700 A for 10 mn

Frequency Range: 48 to 1000 Hz

Working Voltage: 600 Vrms

Common Mode Voltage:
600 Vrms

Influence of Adjacent Conductor:
5 mA/ A AC

Influence of Conductor in Jaw Opening:
 $\pm 1.5\% \pm 0.1$ A

(*Reference conditions: 23°C $\pm 3^\circ$ K, 20 to 75% RH, external magnetic field < 40 A/ m, no DC component, no external current carrying conductor, test sample centered, 1M load.)

MECHANICAL SPECIFICATIONS

Operating Temperature:
 -13° to 122° F (-25° to 50° C)

Storage Temperature:
 -40° to 176° F (-40° to 80° C)

Temperature Influence: $< 0.2\%$ per 10° K

Jaw Opening: 1.3" (33 mm)

Maximum Conductor Size:
1.18" (30 mm)

Maximum Bus Bar Size:
2.48 x 0.20" (63 x 5 mm)

Envelope Protection: IP 20 (IEC 529)

Drop Test: 1.5 m (IEC 68-2-32)

Mechanical Shock:
100 G (IEC 68-2-27)

Polycarbonate Material: 10% fiberglass charged polycarbonate UL 94 V0

Dimensions:
2.6 x 7.68 x 1.34" (66 x 195 x 34 mm)

Weight: 14.82 oz (420 g)

Colors: Dark gray handles

Output: Double insulated 5 ft (1.5 m) lead with safety banana plugs

SAFETY SPECIFICATIONS

Electrical:
- IEC 348 Class II
- 4 kV 50/ 60 Hz dielectric between primary and secondary
- 600 V max common mode between output and ground

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model MD314 includes instruction manual Cat. #2110.75

Accessories

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



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