

AC Current Probe Model MN114



Small, compact and very tough, the Model MN114 is designed for measurements from 1mA to 10Aac. The "clothes pin" shape makes it ideal for use in tight areas, such as breaker panels, controller panels or outlets. They are excellent companions to all DMMs.

The Model MN114 provides a voltage output proportional to measured current (100mV/A). This voltage output enables instruments with AC voltage ranges to measure, display or log currents. Model MN114 permits True RMS measurements when used with a True RMS instrument.

The Model MN114 is designed to optimize measurements on 5A signals.

Features

- Small, compact and very tough AC probes
- "Clothes pin" shape makes them ideal for use in tight areas, such as breaker panels, controller panels, or outlets
- Measurements from 1mA to 10Aac
- Excellent companion to all DMMs. Permits very low AC current measurements

Applications

- Electrical utility
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

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sales@testersandtools.com

Tel: 602-795-4033, Fax: 602-795-4624




Specifications

MODELS	MN114
ELECTRICAL	
Nominal Range	10A
Measurement Range	1mA to 10A
Transformation Ratio	Voltage output
Output Signal	100mV _{AC} /A _{AC} (1V @ 10A)
Accuracy (10A Range)	
1mA to 10A	1mA to 10A: 2% of Reading ± 2mA
1mA to 10A	40Hz to 3kHz: 3.5% of Reading ± 2mA
Phase Shift (10A Range)	45 to 65Hz 100mA to 10A: ≤8°
Overload	20A continuous
Frequency Range	30Hz to 5kHz
Load Impedance	100Ω min
Working/Common Mode Voltage	250V _{AC}
Output Termination	5 ft Lead
MECHANICAL	
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-40° to 176°F (-40° to 80°C)
Operating Relative Humidity	10 to 35°C 85% RH (without roll-off above 35°C)
Jaw Opening	0.78" (20mm)
Maximum Conductor Size	0.47"Ø max (12mm)
Dimensions	1.26 x 4.53 x 0.87" (32 x 115 x 22mm)
Weight	5.6 oz (160g)
Polycarbonate Material	Handles 10% fiberglass charged polycarbonate UL94 V0
SAFETY	
Electrical	250V working voltage, 250V max common mode between output and ground, 3kV 50/60Hz dielectric for 1mm

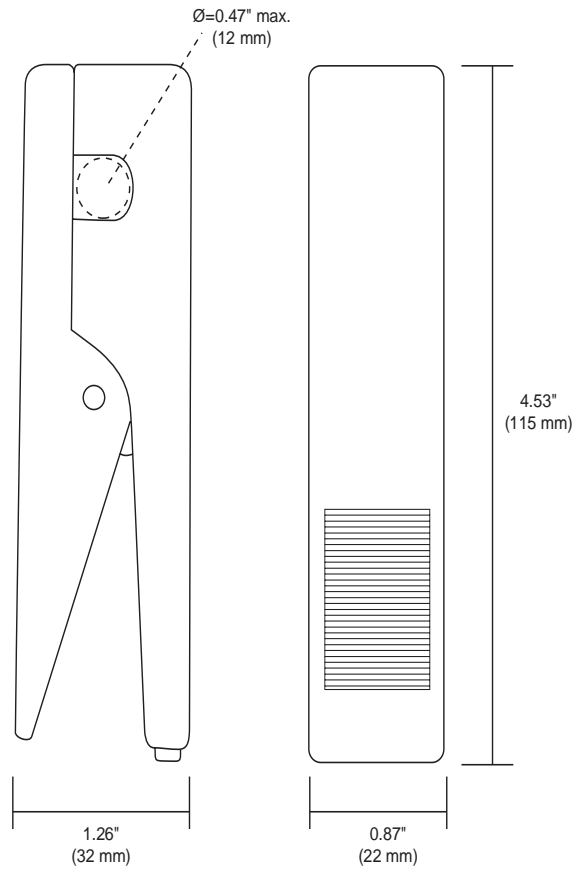
Note: Reference conditions:

23°C ±3K, 20 to 70%RH, 48 to 65Hz, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, load impedance 1MΩ.

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

ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model MN1114 (Lead – 100mV/A – 10A max)	Cat. #2110.71
Includes a user manual	
Accessories (Optional)	
Banana plug adaptor (to nonrecessed plug)	Cat. #1017.45

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Technical Assistance (800) 343-1391

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Contact Us

United States and Canada:

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

Customer Support – for placing an order, obtaining price and delivery:
customerservice@aemc.com

Sales Department – for general sales information:
sales@aemc.com

Repair and Calibration Service – for information on repair and calibration, obtaining a user manual:
repair@aemc.com

Technical and Product Application Support – for technical and application support:
techinfo@aemc.com

Webmaster – for information regarding www.aemc.com:
webmaster@aemc.com

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

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

All other countries:

Chauvin Arnoux 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
www.chauvin-arnoux.com

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Trust Experience Reliability
sales@testersandtools.com
Tel: 602-795-4033, Fax: 602-795-4624