

# 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

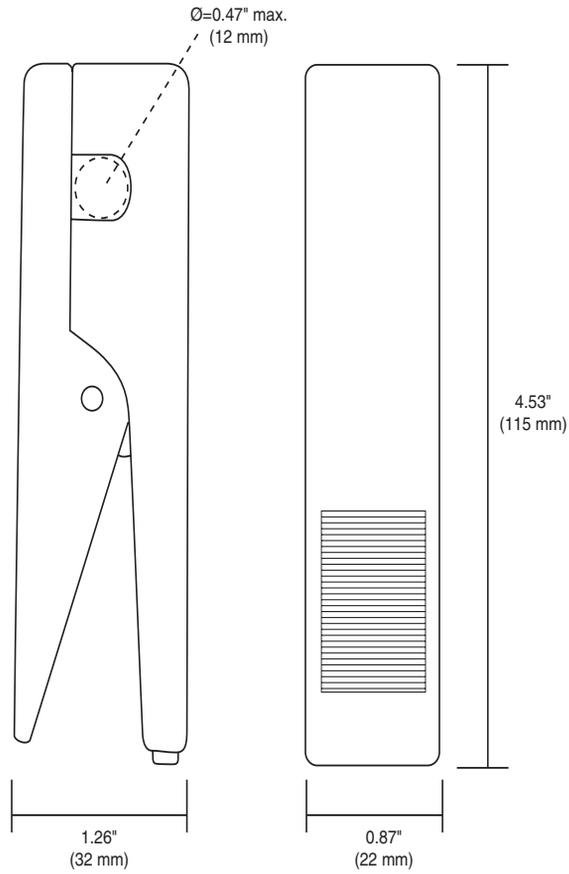
- Electrical utility
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

# Specifications

MODELS	MN114
<b>ELECTRICAL</b>	
Nominal Range	10A
Measurement Range	1mA to 10A
Transformation Ratio	Voltage output
Output Signal	100mV <sub>AC</sub> /A <sub>AC</sub> (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 <sub>AC</sub>
Output Termination	5 ft Lead
<b>MECHANICAL</b>	
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
<b>SAFETY</b>	
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.



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

ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model MN114 (Lead – 100mV/A – 10A max) .....	Cat. #2110.71
Includes a user manual	
<b>Accessories (Optional)</b>	
Banana plug adaptor (to nonrecessed plug) .....	Cat. #1017.45

