

Small, compact and very tough, the Model MN103 is designed for measurements from 1mA to 100AAC. The "clothes pin" shape makes it ideal for use in tight areas, such as breaker panels, controller panels or outlets. It is an excellent companion to all DMMs.

The Model MN103 provides a voltage output proportional to measured

current (1mV/mA and 1mV/A). This voltage output enables instruments with AC voltage ranges to measure, display or log currents. The Model MN103 permits True RMS measurements when used with a True RMS instrument.

The Model MN103 permits very low AC current measurements.

### **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 100AAC
- Excellent companion to all DMMs. Permits very low AC current measurements

## **Applications**

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

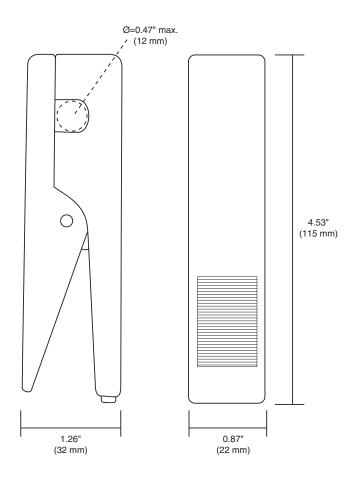


## **Specifications**

| MODELS                         | MN103  |
|--------------------------------|--|
| ELECTRICAL                     |  |
| Nominal Range                  | 100A   |
| Measurement Range              | 1mA to 10A/  |
|                                | 1A to 100A   |
| Transformation Ratio           | Voltage output                                       |
| Output Signal                  | 1mV/mA/1mVac/Aac                                     |
| Accuracy (10A Range)           |  |
| 1mA to 10A                     | 45 to 65Hz: ±3% of Reading ± 1mA                     |
| 1mA to 10A                     | 65 to 500Hz: -2, +6% of Reading ± 1mA                |
| Phase Shift (10A Range)        | -  |
| Accuracy (100A Range)          |  |
| 1 to 100A                      | -  |
| 40Hz to 3kHz                   | -  |
| 45 to 65Hz:                    | ±2% of Reading ± 0.1A                                |
| 65 to 500Hz:                   | +3% of Reading ± 0.1A                                |
| Phase Shift (100A Range)       |  |
| 1 to 100A                      | -  |
| Overload                       | -  |
| Frequency Range                | 45 to 1000Hz   |
| Load Impedance                 | 100kΩ min  |
| Working/Common<br>Mode Voltage | 250Vac   |
| 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<br>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 VO |
| SAFETY                         |  |
| Electrical                     | 250V working voltage, 250V max common mode between   |
|                                | output and ground, 3kV 50/60Hz dielectric for 1mm    |

Note: Reference conditions:  $23^{\circ}\text{C} \pm 3\text{K}$ , 20 to 70%RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, load impedance  $1M\Omega$ .







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

| ORDERING INFORMATION  | CATALOG NO.   |
|---|---------------|
| AC Current Probe Model MN103 (Lead – 1mV/mA – 10A max & 1mV/A – 100A max) | Cat. #1031.02 |
| Includes a user manual  |               |
| Accessories (Optional)  |               |
| Banana plug adaptor (to nonrecessed plug)                                 | Cat. #1017.45 |





#### Contact Us

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