MN SERIES

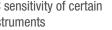
Small and compact, ideal complement for any meter to measure AC currents in low-power secondary transformers or industrial applications

| SPECIFICATIONS | | | | Patent #1385787 - Mini-Clamp Design | |
|-----------------------------------|--|---|------------------------------|---|-----------------------------------|
| MODELS | MN01 | MN02 | MN03 | MN05 | MN09 |
| ELECTRICAL | | | | | |
| Nominal Range | 150Aac | 100A | AC | 10; 100Aac | 150 A AC |
| Measurement Range | 2 to 150Aac | 50mA to 100Aac (1Ω load) 50mA to 90Aac (10Ω load) | 1 to 100Aac | 5mA to 10Aac 1A to 100Aac | 1 to 150Aac |
| Transformation Ratio | 1000:1 | | Voltage output | | N/A |
| Output Signal | 1mA/A (150mAac @ 150A) | 1mA/A (100mAac @ 100A) | 1mV/A (100mVac @ 100A) | 1mV/mA, 1mV/A (10Vac @ 10A, 100mVac @ 100A) | 100mV/A (15Vdc @ 150Aac) |
| Phase Shift | Not specified | $<3^{\circ}$ (1 Ω load) $<6^{\circ}$ (10 Ω load) | Not specified | | |
| Overload | | 10 min ON, nin OFF | 150A | 10A Range: 15A 100A Range: 150A | 170A for 10 min ON, 30 min OFF |
| Frequency Range | 48 to 500Hz | 48Hz to 10kHz | 48 to 500Hz | | |
| Load Impedance | ≤10Ω | | ≥1MΩ | | \geq 50K Ω |
| Open Secondary Voltage | ≤30V | | _ | | ≤30V |
| Output Termination | 5 ft (1.5m) lead with two 4mm safety banana plugs | | | | |
| MECHANICAL | | | | | |
| Maximum Conductor Size | Ø 0.39" (10mm) | | | | |
| Dimension | 5.12 x 1.5 x 1" (130 x 37 x 25mm) | | | | |
| Weight | 6.35 oz (180g) | | | | |
| Material | - | | Polycarbona | te UL 94 V2 | |
| ENVIRONMENTA | L | | | | |
| Operating Temperature | 14° to 122°F (-10° to +50°C) | | | | |
| Storage Temperature | -40° to 176°F (-40° to +80°C) | | | | |
| Operating Relative Humidity | 0 to 85% RH decreasing linearly above 95°F (35°C) | | | | |
| SAFETY | | | | | |
| Safety Rating | IEC 61010-2-32: 300 V CAT IV, 600V CAT III, Pollution Degree 2 | | | | |
| Ingress Protection | IP40 | | | | |
| Double Insulation | Yes | | | | |
| CE Mark | Yes | | | | |

Consult factory for NIST Calibration prices

| CATALOG NO. | DESCRIPTION |
|-------------|--|
| 2129.17 | AC Current Probe Model MN01 (150A, 1mA/A, Lead) |
| 2129.20 | AC Current Probe Model MN02 (100A, 1mA/A, Lead, 1% Accuracy) |
| 2129.18 | AC Current Probe Model MN03 (100A, 1mV/A, Lead) |
| 2129.19 | AC Current Probe Model MN05 (100A, 1mV/A & 10A, 1V/A, Lead) |
| 2129.21 | AC Current Probe Model MN09 (150A, 100mVbc/Aac, Lead) |
| | |







FEATURES

- "Clothes pin" shape makes them ideal for use in tight areas, such as breaker panels, controller panels or outlets
- · Jaw opening accommodates conductors up to 0.39" diameter

MN01

- Measurements from 1mA to 150Aac
- · Excellent companions to all DMMs, permits very low AC current measurements **MN02**
- Measurement ranges of 50mA to 100A $(1\Omega \text{ load})$ 50mA to 90A (10Ω)
- Designed for DMMs, loggers, recorders and oscilloscopes
- 48 to 10,000Hz frequency range
- 1mA/A from 1Ω to 10Ω output signals **MN03**
- Measurement range of 1 to 100Aac
- Designed for DMMs, loggers, recorders and oscilloscopes
- 48Hz to 500Hz response
- 1mVac/Aac output signals
- Designed to EN 61010, 600V CAT III safety standard

MN05

- Measurements from 5mA to 100Aac
- Measurements from 1mA to 10AAc
- · Permits very low AC current measurements

MN09

- Measurements from 1 to 150Aac
- DC voltage output enables you to overcome low AC sensitivity of certain measurement instruments