

AC Current Probe Model MN373



The Model MN373 is the latest in compact AC current probes. It is designed to meet the most stringent demands in industry and electrical contracting. Model MN373 meets EN 61010, 600V, Cat. III safety standards and is CE Marked and UL approved for Canada and United States.

The Model MN373 has a 0.78" (20mm) jaw opening and accommodate conductors up to 250MCM. The unique hooked jaw design facilitates clamping and hooking onto conductors. Polycarbonate materials and ultrasonic welding are used throughout to ensure ruggedness and overall lasting reliability.

The Model MN373 is a high performance model and uses a custom nickel core to improve accuracy and phase shift on the low end of the measurement range. The Model MN373 is an excellent probe to be used in power and low level current measurement applications.

Features

- Small, compact size
- Measurement range of 0.01 to 150A
- Large jaw opening accommodates conductors up to 250MCM
- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
- 1000mV/AAC – 10mV/AAC output signals
- Designed to EN 61010, 600V, Cat. III safety standard
- UL approved for Canada and United States
- Double Insulation
- CE Mark

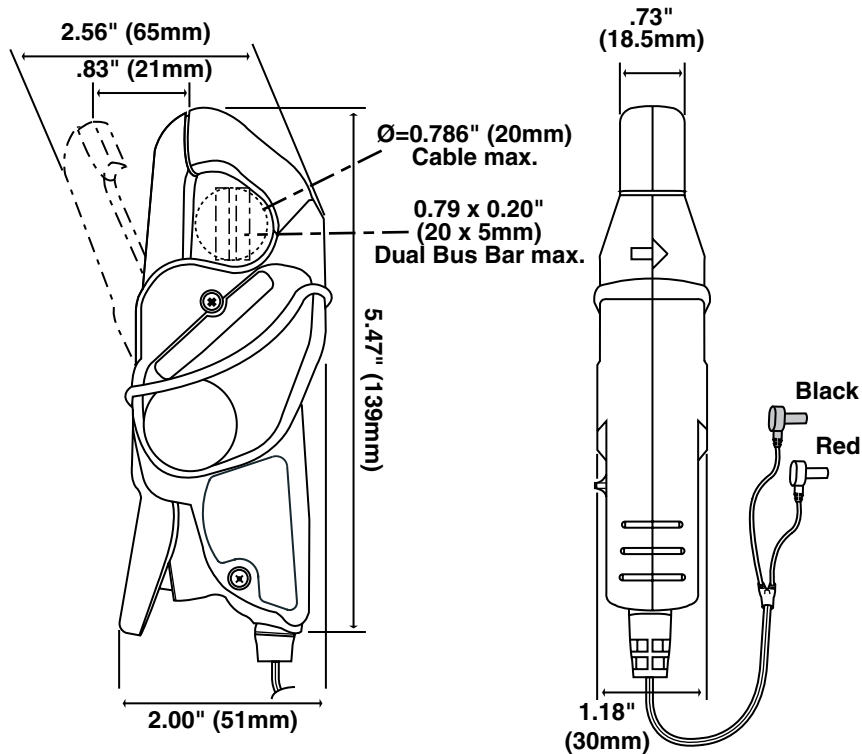
Applications

- Measuring in breaker panels
- Industrial loads
- HVAC
- Residential and commercial sites
- 5A secondary current transformers (CTs) monitoring
- Data logging/recording

Specifications

| MODEL | MN373 |
|--|--|
| ELECTRICAL | |
| Nominal Range | 2A & 150A |
| Measurement Range | 0.1 to 150A |
| Transformation Ratio | Voltage output |
| Output Signal | 2A: 1000mV/A; 150A: 10mV/A |
| Accuracy (2A Range) | |
| 0.01 to 0.1A | 5% of Reading \pm 2mV |
| 0.1 to 1A | 3% of Reading \pm 1mV |
| 1 to 2.4A | 1% of Reading |
| Phase Shift (2A Range) | Not Specified |
| Overload (2A Range) | 2.4A for 10 min ON & 30 min OFF |
| Accuracy (150A Range) | |
| 0.1 to 1A | 3% of Reading \pm 200 μ V |
| 1 to 20A | 2% of Reading \pm 200 μ V |
| 20 to 80A | 1% of Reading |
| 80 to 150A | 3% of Reading |
| 150 to 200A | Not Specified |
| Phase Shift (150A Range) | |
| 0.1 to 1A | Not Specified |
| 1 to 20A | $\leq 3^\circ$ |
| 20 to 80A | $\leq 2^\circ$ |
| 80 to 150A | $\leq 3^\circ$ |
| 150 to 200A | $\leq 4^\circ$ |
| Overload | 240A for 10 min ON, 30 min OFF |
| Frequency Range | 40 to 10kHz |
| Limit Operating | 200A permanently to 1kHz; Derating above 3kHz: 200A x (1/0.333F), F in kHz to 1kHz |
| Crest Factor | 2A: 3 @ 2A Peak with an error (due to CF) of 3% 150A: 3 @ 150A Peak with an error (due to CF) of 3% |
| Working/Common Mode Voltage | 600Vrms |
| Output Termination | 5 ft Lead |
| MECHANICAL | |
| Operating Temperature | 14° to 131°F (-10° to 55°C) |
| Storage Temperature | -40° to 158°F (-40° to 70°C) |
| Operating Relative Humidity | 10 to 35°C 85% RH (without roll-off above 35°C) |
| Jaw Opening | 0.83" (21mm) |
| Maximum Conductor Size | 0.78" (20mm) |
| Dimensions | 5.47 x 2.00 x 1.18" (139 x 51 x 30mm) |
| Weight | 6.5 oz (180g) |
| Polycarbonate Material | Polycarbonate with fiberglass charge, UL94 V0 |
| SAFETY | |
| Electrical | EN 61010-2-32 |
| UL Approval | Yes – Canada and United States |
| Double Insulation <input type="checkbox"/> | Yes |
| CE Mark | Yes |

Note: Reference conditions: 20 to 26°C, 20 to 75% RH, external magnetic field <40A/m, 48 to 65Hz sine wave, distortion factor less than 1%, no DC component, no external current carrying conductor, test sample centered. Load impedance > 1m Ω



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

ORDERING INFORMATION

CATALOG NO.

| | |
|--|----------------------|
| AC Current Probe Model MN373 (Lead – 1000mV/A – 2.4A max & 10mV/A 150A max) | Cat. #2116.28 |
| Includes a user manual | |
| Accessories (Optional) | |
| Banana plug Adaptor (Safety Leads to nonrecessed plug) | Cat. #1017.45 |
| Banana (Female) – BNC (Male) Adaptor | Cat. #2118.46 |

Contact Us

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