AC Current Probe Model MN312



The Model MN312 is the latest in compact AC current probes. It is designed to meet the most stringent demands in industry and electrical contracting. Model MN312 meets EN 61010, 600V, Cat. III safety standards and is CE Marked and UL approved for Canada and United States.

The Model MN312 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 MN312 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 MN312 is an excellent probe to be used in power and low level current measurement applications.

Features

- · Small, compact size
- · Measurement range of 0.1 to 200A
- · Large jaw opening accommodates conductors up to 250MCM
- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
- 1mAac/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
- · Data logging/recording

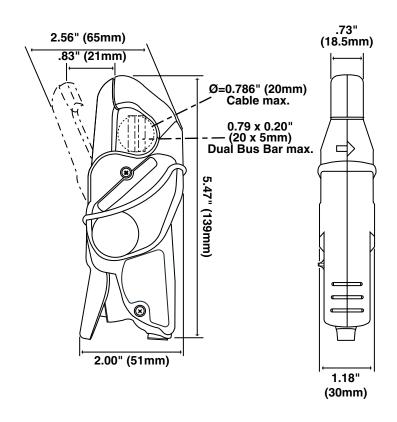
Specifications

MODEL	MN312*
ELECTRICAL	
Nominal Range	200A
Measurement Range	0.1 to 200A
Transformation Ratio	1000:1
Output Signal	1mA/A (100mA @ 100Aac)
Accuracy (200A Range)	· ·
0.1 to 1A	2% of Reading ± 0.02mA
1 to 80A	1% of Reading ± 0.02mA
80 to 100A	2% of Reading ± 0.1mA
100 to 150A	2.5% of Reading ± 0.5mA
150 to 200A	Not Specified
Phase Shift (200A Range)	N 10 17 1
0.1 to 1A	Not Specified
1 to 20A	≤3.0°
20 to 80A	≤2.0°
80 to 150A	≤2.5°
Overload	240A for 10 min ON, 30 min OFF
Frequency Range	40 to 10kHz
Limit Operating Conditions	200A permanently to 3kHz;
Crest Factor	Derating above 3kHz: 200A x (1/0.333F), F in kHz 3 @ 200A Peak with an error (due to CF) of 3%
Working/Common	3 @ 200A Peak With an end (due to Gr) of 3%
Mode Voltage	600Vrms
Output Termination	Jack
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	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 > 1Ω



^{*}Diode protection for open secondary (output)





Jacks: Two standard safety banana jacks (4mm)

ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model MN312 (Jack – 1mA/A – 150A max)	Cat. #2116.24
Includes a user manual	
Accessories (Optional)	
Leads, set of two, 5 ft safety (1000V)	Cat. #2111.29
Banana plug Adaptor (Safety Leads to nonrecessed plug)	Cat. #1017.45
Banana (Female) – BNC (Male) Adaptor	Cat. #2118.46



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