AC Current Probe
Model MN307

The Model MN307 is the latest in compact AC current probes. It is designed to meet the most stringent demands in industry and electrical contracting. Model MN307 meets EN 61010, 600V, Cat. III safety standards and is CE Marked and UL approved for Canada and United States.

The Model MN307 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 MN307 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 MN307 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 12A
- Large jaw opening accommodates conductors up to 250MCM
- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
- 100mV/A output signal
- Designed to EN 61010, 600V, Cat. III safety standard
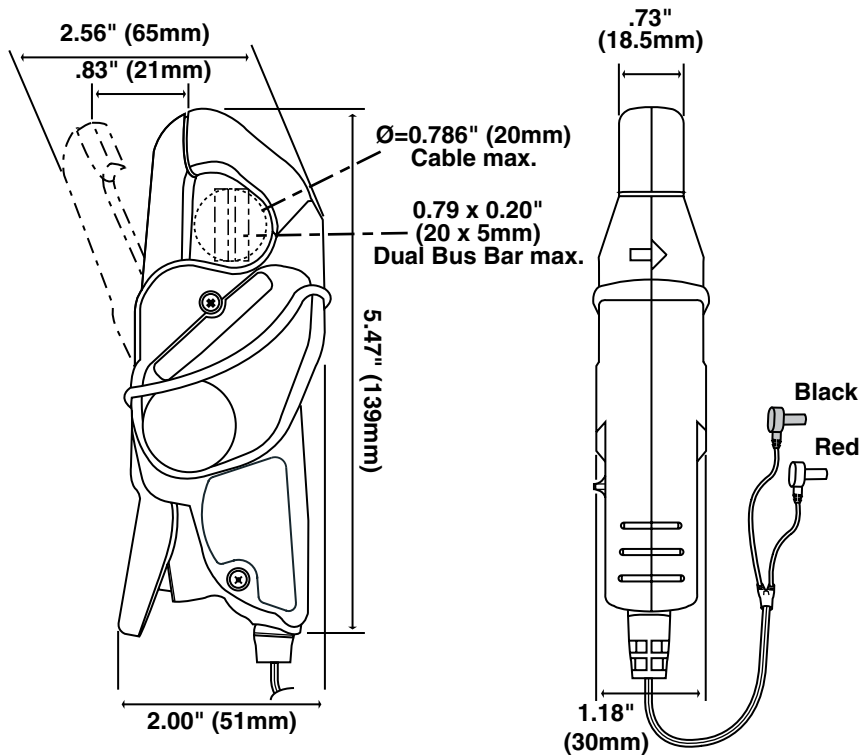- UL approved for Canada and United States
- Double Insulation
- CE Mark

Applications

- Measuring in breaker panels
- Industrial loads
- HVAC
- Residential and commercial sites
- Data logging/recording

Specifications

MODEL	MN307
ELECTRICAL	
Nominal Range	10A
Measurement Range	0.01 to 12A
Transformation Ratio	Voltage output
Output Signal	100mV/A (1V @ 10A)
Accuracy (10A Range)	
0.1 to 0.5A	≤2.5% of Reading ± 0.1mV
0.5 to 1A	≤2.5% of Reading
1 to 12A	≤1.0% of Reading
Phase Shift (10A Range)	
0.01 to 0.1A	Not Specified
0.1 to 1A	≤5.0°
1 to 5A	≤3.0°
5 to 12A	≤2.5°
Overload	12A for Continuous
Frequency Range	40 to 10kHz
Limit Operating Conditions	200A permanently to 3kHz; Derating above 3kHz: 200A x (1/0.333F), F in kHz
Crest Factor	3 @ 10Arms 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 ☐	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 >1mΩ

2.56" (65mm)

.83" (21mm)

Ø=0.786" (20mm) Cable max.

0.79 x 0.20" (20 x 5mm) Dual Bus Bar max.

5.47" (139mm)

2.00" (51mm)

.73" (18.5mm)

Black

Red

1.18" (30mm)

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

ORDERING INFORMATION	CATALOG NO.
AC Current Probe Model MN307 (Lead – 100mV/A – 12A max)......................................	**Cat. #2116.23**
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

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