

# AC Current Probe Model MN213



The Model MN213 is the latest in compact AC current probes. It is designed to meet the most stringent demands in industry and electrical contracting. Model MN213 meets EN 61010, 600V, Cat. III safety standards and is CE Marked and UL approved for Canada and United States.

The Model MN213 has a 0.78" (20mm) jaw opening and can 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 MN213 uses tape-wound cores to further improve its high and low end performance. Rated at 200Arms it has a measurement range to 240Arms.

## Features

- Small, compact size
- Measurement range of 0.5 to 240Aac
- 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

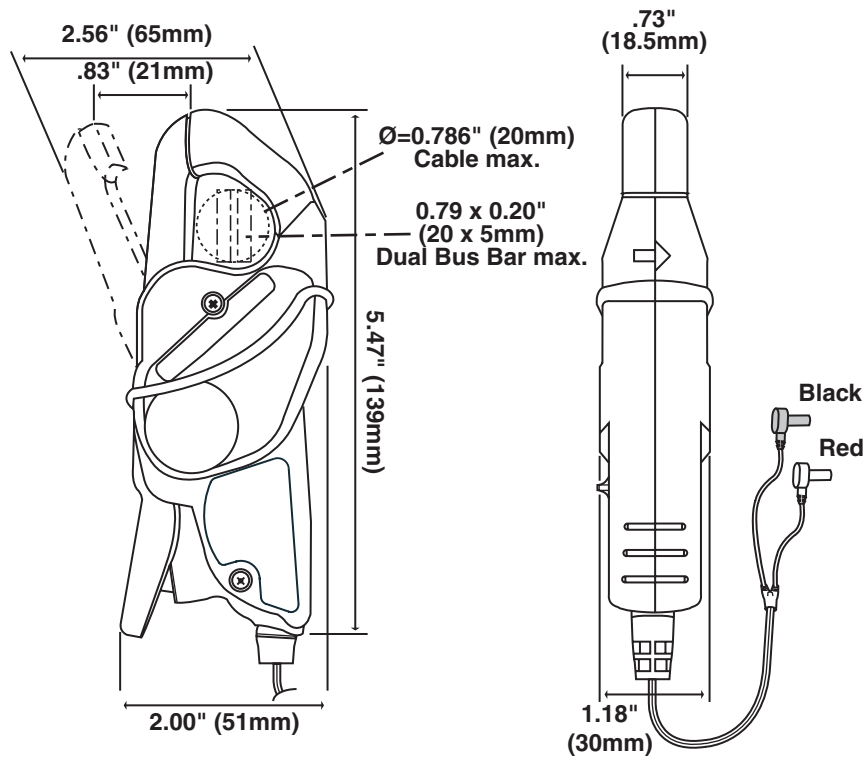
- Measuring in breaker panels
- Industrial loads
- HVAC
- Residential and commercial sites
- 5A secondary current transformers (CTs) monitoring
- Data logging/recording

# Specifications

<b>MODEL</b>	<b>MN213*</b>
<b>ELECTRICAL</b>	
<b>Nominal Range</b>	200A
<b>Measurement Range</b>	0.5 to 240A
<b>Transformation Ratio</b>	1000: 1
<b>Output Signal</b>	1mA/A on 1Ω
<b>Accuracy (200A Range)</b>	
0.5 to 10A	3.0% of Reading ± 0.5A
10 to 40A	2.5% of Reading ± 0.5A
40 to 100A	2.0% of Reading ± 0.5A
100 to 240A	1.0% of Reading ± 0.5A
<b>Phase Shift (200A Range)</b>	
0.5 to 10A	Not Specified
10 to 40A	≤5.0°
40 to 100A	≤3.0°
100 to 240A	≤2.5°
<b>Overload</b>	240A for 10 min ON, 30 min OFF
<b>Frequency Range</b>	40 to 10kHz
<b>Limit Operating Conditions</b>	200A permanently to 1kHz; Derating above 3kHz: 200A x (1/0.333F), F in kHz
<b>Crest Factor</b>	3 @ 200Arms with an error (due to CF) of 4%
<b>Working/Common Mode Voltage</b>	600Vrms
<b>Output Termination</b>	5 ft Lead
<b>MECHANICAL</b>	
<b>Operating Temperature</b>	14° to 131°F (-10° to 55°C)
<b>Storage Temperature</b>	-40° to 158°F (-40° to 70°C)
<b>Operating Relative Humidity</b>	10 to 35°C 85% RH (without roll-off above 35°C)
<b>Jaw Opening</b>	0.83" (21mm)
<b>Maximum Conductor Size</b>	0.78" (20mm)
<b>Dimensions</b>	5.47 x 2.00 x 1.18" (139 x 51 x 30mm)
<b>Weight</b>	6.5 oz (180g)
<b>Polycarbonate Material</b>	Polycarbonate with fiberglass charge, UL94 V0
<b>SAFETY</b>	
<b>Electrical</b>	EN 61010-2-32
<b>UL Approval</b>	Yes – Canada and United States
<b>Double Insulation</b> <input type="checkbox"/>	Yes
<b>CE Mark</b>	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)



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

**ORDERING INFORMATION**

**CATALOG NO.**

AC Current Probe Model MN213 (Lead – 1mA/A – 240A max).....	Cat. #2115.75
Includes a user manual	
<b>Accessories (Optional)</b>	
Banana plug adaptor (Safety Leads to nonrecessed plug).....	Cat. #1017.45
Banana (Female) – BNC (Male) Adaptor.....	Cat. #2118.46

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