

# MA12 Series (LED Ampere Meters)

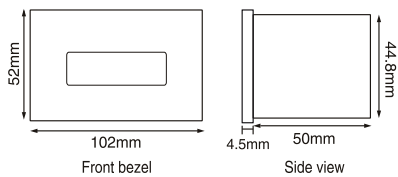
## FEATURES

- Measurement Function
  - 1  $\emptyset$  Current (True RMS)
- Programmable CT Primary / Shunt Setting
- AC version (CT Type)
- DC version (Shunt Type, External Shunt (50mV/100mV) is required for measurement.)
- 4 Digit LED Display



CAT. NO.	MA12-110V-CU	MA12-50mV-DC-110V-CU MA12-100mV-DC-110V-CU
<b>Display</b>		
Display Type	7 segment LED display	7 segment LED display
Digits	4 digits	4 digits
Bargraph	-	-
Display Range	0 - 4960A	0 - 4960A
<b>Supply Specification</b>	110 VAC +/-20% (60Hz)	110 VAC +/-20% (60Hz)
<b>Input Specification</b>		
Electrical Wire System	1 Phase (2 wire)	1 Phase (2 wire)
Measurement Type	AC, CT Type (External CT required for current > 5A)	DC, Shunt Type (External shunt is required for current > 5A)
Shunt Size	-	<b>50mV (MA12-50mV)    100mV (MA12-100mV)</b>
Input Current Range	50mA ~ 5A (External CT required for current >5A)	50mA ~ 5A (External shunt required for current >5A)
Frequency Range	45 ~ 65Hz	45 ~ 65Hz
<b>Parameter Resolution</b>		
Current	0.001, 0.01, 0.1, 1A (depending on CT Primary)	0.001, 0.01, 0.1, 1A (depending on shunt setting)
Sampling Rate	3 samples / sec.	3 samples / sec.
<b>Accuracy Class</b>		
Current	+/- 0.5% of Full-Scale Value	+/- 0.5% of Full-Scale Value
<b>Output Specifications</b>		
Pulse Output	-	-
<b>Communication</b>	-	-
<b>Programmable Parameters</b>		
CT Primary / Shunt Setting	5, 10, 20, 30, 40, 50, 60, 75, 80, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000, 4000	5, 10, 20, 30, 40, 50, 60, 75, 80, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000, 4000
CT Secondary	5A fixed (External CT must be connected for current >5A)	-
<b>Environmental Specifications</b>		
Temperature	Operating: -10°C~55°C, Storage: -20°C~ 75°C	Operating: -10°C~55°C, Storage: -20°C~ 75°C
Humidity	Up to 85% RH	Up to 85% RH
Protection Level	IP65 for Faceplate	IP65 for Faceplate
<b>Physical Specifications</b>		
Size	1/8 DIN, 48 mm x 96 mm	1/8 DIN, 48 mm x 96 mm
Weight	0.37 lbs (170g)	0.37 lbs (170g)
Terminal Size Acceptability and Torque	20-14 AWG (0.5 - 2.5mm <sup>2</sup> ), 6-7 lb-in. (0.68 - 0.79Nm)	20-14 AWG (0.5 - 2.5mm <sup>2</sup> ), 6-7 lb-in. (0.68 - 0.79Nm)

## DIMENSIONS



## MA12 Series

## TERMINAL CONNECTIONS



## MA12-110V-CU (CT Type)



## MA12-mV-DC-110V-CU (Shunt Type)

230 VAC versions also available, please consult Altech.

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