

# MA12 Series (LED Ampere Meters)

## FEATURES

- Measurement Function
  - **1 Ø 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



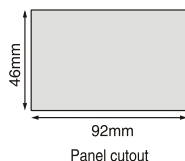
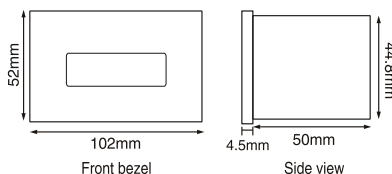
## CAT. NO.

### 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.