



Features:

- 4 Digit, 7 segment LED Display
- True RMS Measurement
- For 1 Phase 2 Wire Electrical Network
- CT Primary / Shunt Programmable upto 4000A
- IP Protection (Front) : IP65

Size: 48mm x 96mm (1/8 DIN)

Certifications:  

Technical Specifications

Display

| | |
|---------------|-----------------------|
| Display | 7 segment LED Display |
| Digit | 4 |
| Digit Height | 0.56" (14.2mm) |
| Display Range | 0 - 4960A |

Input Specifications

| | |
|---------------------------------|--|
| Electrical Connection | 1 Ø-2 wire |
| Input Current Range | 0 - 5A AC |
| Continuous Max. Input Current | 6.2A AC |
| Overrange Indication | "Or" for input > 6.2A AC |
| Frequency Range | 45 - 65Hz |
| Resolution | 0.001, 0.01, 0.1, 1A (Depending upon CT primary / shunt setting) |
| Accuracy | ±0.5% of F.S (CT primary / shunt setting) |
| Input Burden | 0.5 VA @ 5A AC |
| Sampling Rate | 3 samples / second |
| Dielectric withstand Voltage | 2kV AC between auxiliary supply & measuring input |
| Rated Impulse withstand Voltage | 3.5kV (1.2/50µS) |

Supply Specifications

| | |
|-------------------|--|
| Auxiliary Supply | AC: 240V AC ±20%, (50 / 60Hz) 110V AC ±20%, (50 / 60Hz) |
| Supply Frequency | 50 / 60Hz |
| Power Consumption | 5VA max @ 240V AC |

Resettable Parameters

| | |
|-----------------------------|---|
| C.T 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 |
| C.T Secondary Setting | 5A Fixed |

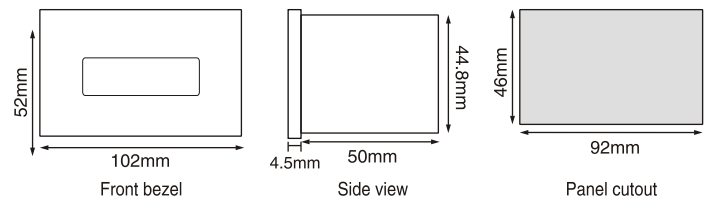
Environmental Specifications

| | |
|---------------------------|--|
| Temperature | Operating: -10 to +55°C (14 to 131°F) Storage: -20 to +75°C (-4 to 167°F) |
| Humidity (non-condensing) | Upto 85% RH |

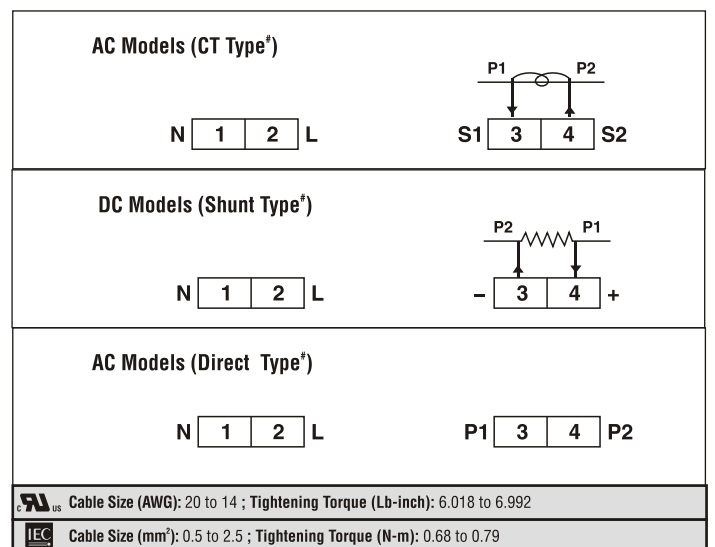
Mechanical Specifications

| | |
|------------------|---------------------|
| Mounting | Panel mount |
| Weight | 170 gms (0.374 lbs) |
| Protection Level | IP65 for faceplate |


Dimensions



Terminal Connections



 Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992

 Cable Size (mm²): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79

#NOTE

- 1) **CT Type:** There is an internal CT with CT setting. Above 5A(0-5A model) external CT is required.
- 2) **Shunt Type:** External Shunt (50mV / 100mV DC) is required for measurement.
- 3) **Direct Type:** Input is directly connected to the input of the unit.

Ordering Information

| Part No. | CT Type | Shunt Type | Direct Type | Supply Voltage | | Certification | |
|----------------------------|---------|------------|-------------|----------------|---------|---------------|-----------|
| | | | | 110V AC | 240V AC | CE | UL LISTED |
| MA12 | ■ | | | | ■ | | |
| MA12-CU | ■ | | | | ■ | ■ | ■ |
| MA12-110V | ■ | | | ■ | | | |
| MA12-110V-CU | ■ | | | ■ | | ■ | ■ |
| MA12-20A-AC | | | ■ | | ■ | | |
| MA12-20A-AC-110V | | | ■ | ■ | | | |
| MA12-AC-2/20mA | | | ■ | | ■ | | |
| MA12-AC-2/20mA-CU | | | ■ | | ■ | ■ | ■ |
| MA12-AC-2/20mA-110V | | | ■ | ■ | | | |
| MA12-AC-2/20mA-110V-CU | | | ■ | ■ | | ■ | ■ |
| MA12-AC-200/2000mA | | | ■ | | ■ | | |
| MA12-AC-200/2000mA-CU | | | ■ | | ■ | ■ | ■ |
| MA12-AC-200/2000mA-110V | | | ■ | ■ | | | |
| MA12-AC-200/2000mA-110V-CU | | | ■ | ■ | | ■ | ■ |
| MA12-50mV-DC | | ■ | | | ■ | | |
| MA12-50mV-DC-CU | | ■ | | | ■ | ■ | ■ |
| MA12-50mV-DC-110V | | ■ | | ■ | | | |
| MA12-50mV-DC-110V-CU | | ■ | | ■ | | ■ | ■ |
| MA12-75mV-DC | | ■ | | | ■ | | |
| MA12-75mV-DC-CU | | ■ | | | ■ | ■ | ■ |
| MA12-75mV-DC-110V | | ■ | | ■ | | | |
| MA12-75mV-DC-110V-CU | | ■ | | ■ | | ■ | ■ |
| MA12-100mV-DC | | ■ | | | ■ | | |
| MA12-100mV-DC-CU | | ■ | | | ■ | ■ | ■ |
| MA12-100mV-DC-110V | | ■ | | ■ | | | |
| MA12-100mV-DC-110V-CU | | ■ | | ■ | | ■ | ■ |
| MA12-DC-2mA | | | ■ | | ■ | | |
| MA12-DC-2mA-CU | | | ■ | | ■ | ■ | ■ |
| MA12-DC-2mA-110V | | | ■ | ■ | | | |
| MA12-DC-2mA-110V-CU | | | ■ | ■ | | ■ | ■ |
| MA12-DC-20mA | | | ■ | | ■ | | |
| MA12-DC-20mA-CU | | | ■ | | ■ | ■ | ■ |
| MA12-DC-20mA-110V | | | ■ | ■ | | | |
| MA12-DC-20mA-110V-CU | | | ■ | ■ | | ■ | ■ |
| MA12-DC-200mA | | | ■ | | ■ | | |
| MA12-DC-200mA-CU | | | ■ | | ■ | ■ | ■ |
| MA12-DC-200mA-110V | | | ■ | ■ | | | |
| MA12-DC-200mA-110V-CU | | | ■ | ■ | | ■ | ■ |
| MA12-DC-2A | | | ■ | | ■ | | |
| MA12-DC-2A-CU | | | ■ | | ■ | ■ | ■ |
| MA12-DC-2A-110V | | | ■ | ■ | | | |
| MA12-DC-2A-110V-CU | | | ■ | ■ | | ■ | ■ |

Note:

- 1) **CT Type:** There is an internal CT with CT setting (5-4000A). For current input >5A, external CT is required.
- 2) **Shunt Type:** There is an internal Shunt with Shunt setting (5-4000A). External Shunt (50mV/75mV/100mV) is required.
- 3) **Direct Type:** Input is directly connected to the unit.