





**Features:**

- 4 Digit, 7 segment LED Display
- True RMS Measurement
- For 1 Phase 2 Wire Electrical Network
- CT Primary Programmable upto 4000A

Certifications:  

**Display Specifications**

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

**Input Specifications**

|                                 |   |
|---------------------------------|---|
| Electrical Connection           | 1 Ø-2 wire  |
| Input Current Range             | 50mA - 5A AC                                      |
| Continuous Max. Input Current   | 6.2A AC   |
| Overrange Indication            | "Or" for input > 6.2AAC                           |
| Frequency Range                 | 50 - 60Hz   |
| Resolution                      | 0.001, 0.01, 0.1, 1A (Depending upon CT primary)  |
| 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)                                  |

**Auxiliary Supply Specifications**

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

**Settable Parameters**

|                      |  |
|----------------------|--|
| CT Primary 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 |
| CT Secondary Setting | 5A Fixed   |

**Environmental Specifications**

|                           |  |
|---------------------------|--|
| Temperature               | Operating: -10 to +55°C (14 to 131°F)<br>Storage: -20 to +75°C (-4 to 167°F) |
| Humidity (non-condensing) | Upto 95% RH  |

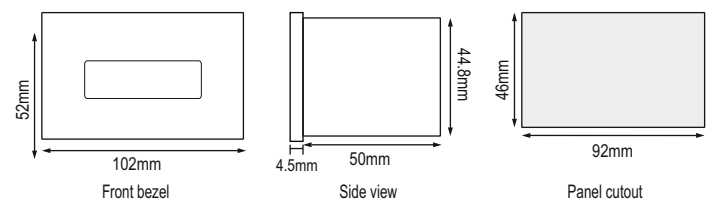
**Mechanical Specifications**

|          |             |
|----------|-------------|
| Mounting | Panel mount |
| Weight   | 170 gms     |

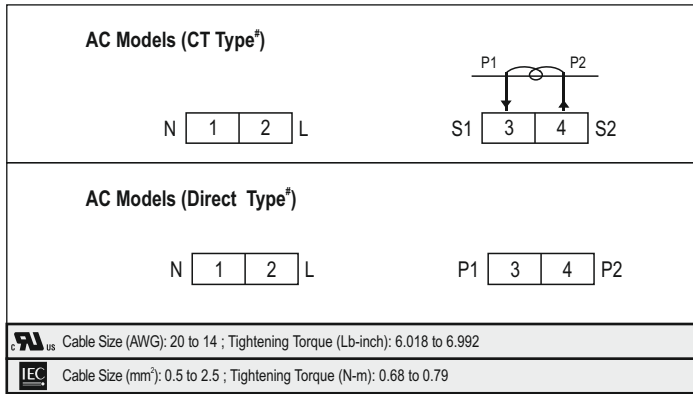
**Compliance**

| Applicable EMI / EMC Standards |                |   |
|--------------------------------|----------------|---|
| Product Standard : IEC 61326-1 |                |   |
| Category                       |                | Standards Compliance  |
| ESD Immunity                   | IEC 61000-4-2  | Level IV (Air discharge : 15kV), (Contact Discharge : -8kV)   |
| Surge Immunity                 | IEC 61000-4-5  | +/- 2kV common mode, (Line to ground)<br>+/- 1kV differential mode, (Line to Line)  |
| Radiated Susceptibility        | IEC 61000-4-3  | Level III, 80 to 1000MHz (10V/m)<br>Level II, 1.4GHz to 2GHz (3V/m)<br>Level I, 2GHz to 2.7GHz (1V/m)   |
| Conducted Susceptibility       | IEC 61000-4-6  | Level II (3V/m)   |
| Voltage Dips and Interruptions | IEC 61000-4-11 | <b>Dips</b> : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C)<br>70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C)<br><b>Interruptions</b> : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C) |
| Conducted Emission             | CISPR-11       |   |
| Radiated Emission              | CISPR-11       |   |
| Electrical Fast Transient      | IEC 61000-4-4  | Level III (2kV)   |

**Dimensions**



Terminal Connections



**\*NOTE**

- 1) **CT Type:** There is an internal CT with CT setting. Above 5A(0-5A model) external CT is required.
- 2) **Direct Type:** Input is directly connected to the input of the unit.

Ordering Information

| Product Code | Supply Voltage |         | Certification |           |
|--------------|----------------|---------|---------------|-----------|
|              | 240V AC        | 110V AC | CE            | UL LISTED |
| MA12         | ■              |         |               |           |
| MA12-CE      | ■              |         | ■             |           |
| MA12-110V    |                | ■       |               |           |
| MA12-20A-AC  | ■              |         |               |           |

**Note:**

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