



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 |

Mechanical Specifications

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

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) |

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) +/- 1kV differential mode, (Line to Line) |
| Radiated Susceptibility | IEC 61000-4-3 | Level III, 80 to 1000MHz (10V/m) Level II, 1.4GHz to 2GHz (3V/m) 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 | Dips : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) Interruptions : 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) |

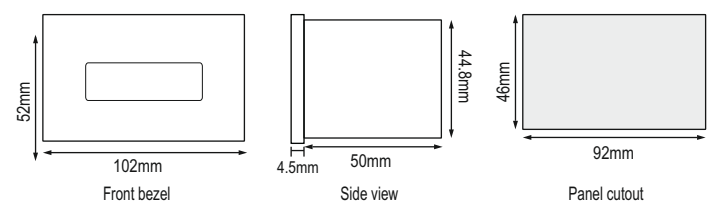
Auxiliary Supply Specifications

| | |
|-------------------|-------------------------------------------------------|
| Auxiliary Supply | AC: 240V AC ±20%, (50 / 60Hz) 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 |

Dimensions



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 95% RH |

Terminal Connections

| | |
|-----------------------------------------------------------------------------------------|--|
| <p>AC Models (CT Type[#])</p> | |
| <p>AC Models (Direct Type[#])</p> | |
| <p> Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992</p> | |
| <p> Cable Size (mm²): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79</p> | |

***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 | |
| 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.