# MA302

## Digital Ammeter

96 x 96mm

## Features:

- True RMS Measurement
- CT Primary Programmable upto 4000A

Certifications: CE

### Display Specifications

| | |
|---|---|
| Display | Single row, 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 Type | AC |
| Input Current Range | 50mA - 5A |
| Continuous Max. Input Rating | 6.2A |
| Overrange Indication | "Or" for input > 6.2A |
| Frequency | 50 / 60Hz |
| Resolution | 0.001, 0.01, 0.1, 1A (Depending upon CT primary |
| Accuracy | ±0.5% of CT primary / shunt setting |
| Input Burden | 0.5 VA at 5 A |
| 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 | 240V AC ±20%, (50 / 60Hz)<br>110V AC ±20%, (60Hz) |
| Power Consumption | 5VA max |

### Settable Parameters

| | |
|---|---|
| CT Primary / Shunt Setting | 5,10, 20, 30, 40, 50, 60, 75, 80, 100, 150, 200, 250, 300,400, 500, 600, 800,<br>1000,1200, 1500, 1600, 2000, 2500,<br>3000, 4000 |
| CT Secondary Setting | 5A Fixed |

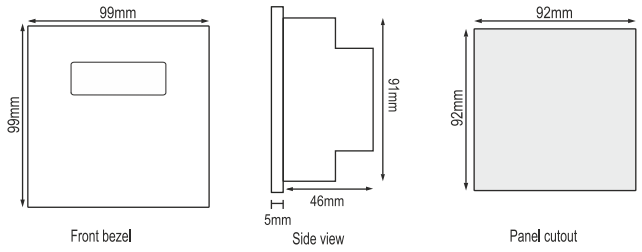
### Environmental Specifications

| | |
|---|---|
| Temperature | Operating: -10 to 55°C (32 to 122°F)<br>Storage: -20 to 75°C (32 to 158°F) |
| Humidity (non-condensing) | Upto 95% RH |

### Mechanical Specifications

| | |
|---|---|
| Mounting | Panel mount |
| Weight | 180 gms |

### Dimensions



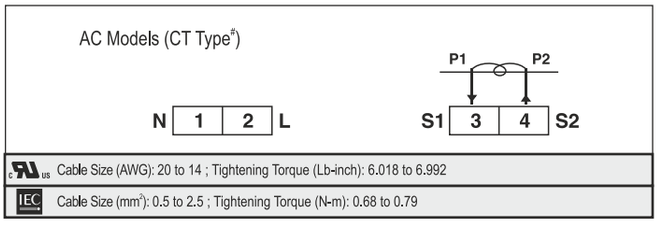

### Compliance

**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 | **Dips** : 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>**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) |

### Terminal Connections




## Ordering Information

| Product Code | CT Type | Supply Voltage | Certification |
|---|---|---|---|
| | | 240V AC | |
| MA302 | ■ | ■ | CE |