Digital Panel Meter

MA501



48 x 48mm

Features :

- 1Ø True RMS measurement
- 4 Digit 7 segment LCD
- Analog style bar graph indication
- CT primary programable up to 5000A
- CE & RoHS certified

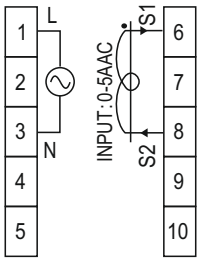
Certifications : CE c UL us LISTED

Technical specifications

Display specifications	
Display	7 Segment LCD
Digits	4
Digit height	0.56" (14.2mm)
Display update time	1sec
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)
Input specifications	
Electrical connection	1Ø-2 Wire
Input type	AC
Nominal input ranges	50mA-6A
Max continuous input current	6.2A
Accuracy	±0.5% .
Electrical specification	
Installation category	III
High voltage test	2kV AC, 50Hz
IP protection	IP51 front only
Sampling rate	3 samples/second
Dielectric withstand voltage	2kV AC between auxiliary supply & measuring input
Rated impulse withstand voltage	2kV (1.2/50µS)
Selectable parameters	
CT primary settings	5,10,15, 20, 25, 30, 40, 50, 60, 75, 80, 100, 125, 150, 175, 200, 250, 300, 400, 500, 600, 630, 750, 800, 1000, 1200, 1200, 1500, 1600, 2000, 2250, 2500, 3000, 3200, 4000, 5000
CT secondary setting	5A fixed
Environment specifications	
Operating temp.	-10°C to +55°C (14°F to 131°F)
Storage temp.	-20°C to +75°C (-4°F to 167°F)
Humidity (Non-condensing)	95% RH
Pollution degree	2

Auxiliary specifications	
Auxiliary supply	240V AC ±20%, (50/60Hz), 110V AC ±20%, (60Hz)
Supply frequency	50/60Hz
Power consumption	5VA max
Mechanical specifications	
Mounting	Panel mounting
Bezel size	48mm x 48mm
Overall depth	68.5mm
Weight	113gm

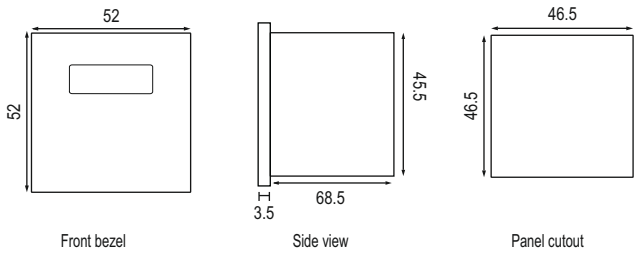
Terminal connections



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

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

Dimensions (All are in mm)



Standards 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)

Ordering information

Product code	Supply voltage	Certification
MA501-230V-CE	240V AC, ±20%	CE
MA501-CU	240V AC, ±20%	CE cULus LISTED
MA501-110V-CU	110V AC, ±20%	CE cULus LISTED