Digital Panel Meter

MA2301



72 x 72mm

Features :

- True RMS measurememnt
- Analog style bar graph for current representation
- CT primary programmable up to 5000A
- Selector switch for page selection
- CE & RoHS certified

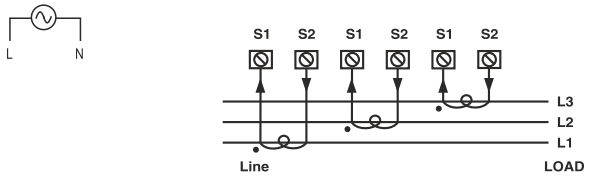
Certifications : CE cULus LISTED

Technical specifications

Display specifications	
Display	7 Segment LCD
Digits	4
Digit height	0.56" (14.2mm)
Display range	0-6200A
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)
Input specifications	
Electrical connection	3Ø-4 Wire
Input type	AC
Rated input current	5A AC
Input current range	Min- 50mA- 6.2A AC
Continuous max input rating	120% of rated current
Accuracy	±0.5 % of F.S.
Frequency range	50/60Hz
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
Altitude	Upto 2000 meters
Measurement category	CAT III

Auxiliary specifications	
Auxiliary supply	AC: 240V AC ±20%, (50/60Hz), 110V AC ±20%, (60Hz)
Supply frequency	50/60Hz
Input burden	0.5VA@5A AC
Power consumption	5VA max
Mechanical specifications	
Mounting	Panel mounting
Bezel size	72mm x 72mm
Overall depth	50mm
Weight	163gm
Torque at terminals	0.68 N-m to 0.79 N-m
Torque at terminals	20 to 14 AWG;75°C
Mounting position	Vertical

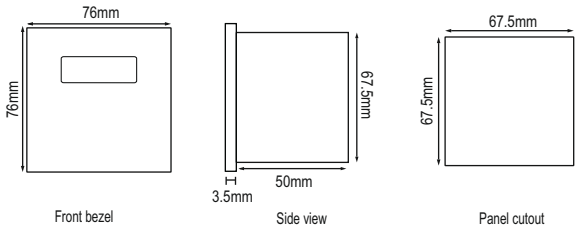
Terminal connections



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
MA2301-110V-CU	110V AC	CE cULus LISTED
MA2301-230V-CE	240V AC	CE