



48 x 96mm

Features :

- ▶ Class 0.5 accuracy
- ▶ True RMS current measurement
- ▶ CT Programmable up to 4000A
- ▶ CE & RoHS Certified

Certifications :  

Technical specifications

Display specifications	
Display	7 Segment LED display
Digits	4
Display height	0.56" (14.2mm)
Display update time	0-5760A
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)
Input specifications	
Electrical connection	1Ø-2 Wire
Input type	AC
Input current range	50mA-5A AC
Continuous max. input current	140% of rated current
Accuracy	±0.5% of F.S. (CT Primary/Shunt setting)
Over range indication	>7.2A AC
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 with stand voltage	2kV AC Between auxiliary supply & measuring input
Rated impulse with stand voltage	3.5kV (1.2/50µS)
Auxiliary supply specifications	
Auxiliary supply	AC: 240V AC ±20%, (50/60Hz) & 110V AC ±20%, (60Hz)
Supply frequency	50/60Hz
Input burden	0.5 VA@5A AC
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 (Via tact switch)
CT Secondary setting	5A Fixed
Environmental specifications	
Operating temperature	-10°C to +55°C (14°F to 131°F)
Storage temperature	-20°C to +75°C (-4°F to 167°F)
Humidity (Non-condensing)	Upto 95% RH
Pollution degree	2

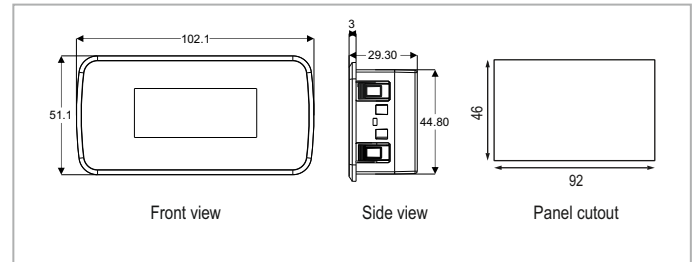
Mechanical specifications

Mounting	Panel mount
Bezel size	48mm x 96mm
Overall depth	29.3mm
Weight	86gm

Terminal connections

AC Models (CT Type⁵) 	
AC Models (Direct Type⁵) 	
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)



Ordering information

Product code	Supply voltage	Certification
MA12	240V AC	---
MA12-CE	240V AC	CE
MA12-20A-AC	240V AC	---
MA12-75mV-DC	240V AC	---
MA12-110V-CU	110V AC	CE
MA12-50mV-DC-110V-CU	110V AC	CE
MA12-100mV-DC-110V-CU	110V AC	CE

Note :

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

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)