MA501 Digital Ammeter



48mm x 48mm

Features:

- Liquid Crystal Display
- Single row, 4 digit
- Analog style bargraph indication
- True RMS measurement
- CT primary programable up to 5000A
- For 1 phase 2 wire electrical connection

Certifications: CE cULus LISTED

Technical Specifications

Display

Display	Single row, Liquid Crystal Display
Digit	4
Digit Height	0.56" (14.2mm)
Display Range	0 – 6200A
Bargraph	Analog style bargraph indication

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 Setting)
Accuracy	±0.5% of CT Primary Setting
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	2kV (1.2/50µS)

Supply Specifications

Auxiliary Supply	240V AC ±20%, (50 / 60Hz) 110V AC ±20%, (60Hz)
Power Consumption	12VA max

Resettable 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, 1500, 1600, 2000, 2250,2500, 3000, 3200, 4000, 5000.
CT Secondary Settings	5A Fixed

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

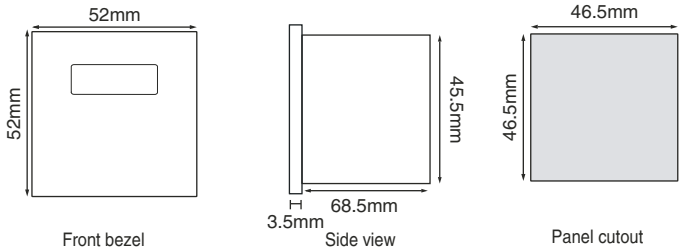
Mechanical Specifications

Mounting	Panel mount
Weight	113 gms

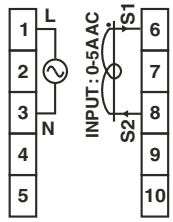
EMC

Electromagnetic compatibility	IEC 61326-1
ESD Immunity: IEC 61000-4-2	Level III
Surge Immunity: IEC 61000-4-5	+/- 2 kV common mode, +/- 1 kV differential mode
Radiated Susceptibility: IEC 61000-4-3	Level III, 80 to 1000MHz Level II, 1GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility: IEC 61000-4-6	Level II
Voltage Dips and Interruption: IEC 61000-4-11	Dips: 0% residual voltage/1 cycle (Crit B.), 40% residual voltage/10 cycles 50 Hz / 12 cycles 60 Hz (Crit C) 70% residual voltage / 25 cycles 50 Hz / 30 cycles 60 Hz (Crit C) Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz (Crit C)
Conducted Emissions	CISPR-11 & IEC 61000-6-3
Radiated Emissions	CISPR-11
Electrical Fast Transient: IEC 61000-4-4	Level 3.

Dimensions



Terminal Connections



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

Cable Size (mm^2): 0.5 to 2.5 ; **Tightening Torque (N-m):** 0.68 to 0.79

Ordering Information

Part No.	CT Type	Supply Voltage		Certification	
		110V AC	240V AC	CE	cULus LISTED
MA501	▪		▪		
MA501-CU	▪		▪	▪	▪
MA501-110V	▪	▪			
MA501-110V-CU	▪	▪		▪	▪

Note: CT Type-There is an internal CT with CT setting (5-**5**000A).
For current input >5A, external CT is required.