

# Features:

- 4 Digit, 7 segment LED Display
- True RMS Measurement
- For 1 Phase 2 Wire Electrical Network
- CT Primary Programmable upto 4000A

Certifications: **C C C UL** US LISTED

#### **Display Specifications**

Display 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 Current Range 50mA - 5A AC
Continuous Max. Input Current 6.2A AC

Overrange Indication "Or" for input > 6.2A AC

Frequency Range 50 - 60Hz

Resolution 0.001, 0.01, 0.1, 1A (Depending upon

CT primary

Accuracy ±0.5% of F.S (CT primary / shunt setting)

Input Burden 0.5 VA @ 5A AC
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 AC: 240V AC  $\pm$ 20%, (50 / 60Hz) 110V AC  $\pm$ 20%, (60Hz)

Supply Frequency 50 / 60Hz

Power Consumption 5VA max @ 240V AC

## **Mechanical Specifications**

Mounting	Panel mount	
Weight	170 gms	

## 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 groun +/- 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 070% 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)				

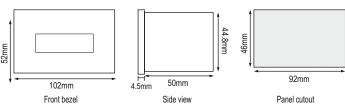
## **Settable Parameters**

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
CT Secondary Setting	5A Fixed

# **Environmental Specifications**

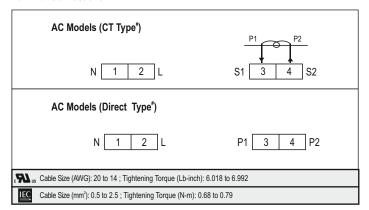
Temperature	Operating: -10 to +55°C (14 to 131°F)
	Storage: -20 to +75°C (-4 to 167°F)
Humidity (non-condensing)	Upto 95% RH

# Dimensions



MA12 Ammeter - Digital

## **Terminal Connections**



## \*NOTE

1) CT Type: There is an internal CT with CT setting. Above 5A(0-5A model) external CT is required.

2) Direct Type: Input is directly connected to the input of the unit.

# **Ordering Information**

Product Code	Supply Voltage		Certification	
	240V AC	110V AC	C€	CUL)US
MA12	•			
MA12-CE	-		-	
MA12-110V		-		
MA12-20A-AC	-			

#### Note:

- 1) CT Type: There is an internal CT with CT setting (5-4000A). For current input >5A, external CT is required.
- 2) Direct Type: Input is directly connected to the unit.