MA12 Digital Ammeter



# **Features:**

- 4 Digit, 7 segment LED Display
- True RMS Measurement
- For 1 Phase 2 Wire Electrical Network
- CT Primary / Shunt Programmable upto 4000A
- IP Protection (Front): IP65

Size: 1/8 DIN 48mm x 96mm

Certifications: C C CUL US PENDING

# **Technical Specifications**

#### Display

Display	7 segment LED Display
Digit	4
Digit Height	0.56" (14.2mm)
Display Range	0 - 4960A

### **Input Specifications**

Electrical Connection	1 Ø-2 wire
Input Current Range	0 - 5A AC
Continuous Max. Input Current	6.2A AC

Overrange Indication "Or" for input > 6.2A AC

Frequency Range 45 - 65Hz

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

CT primary / shunt setting)

Accuracy  $\pm 0.5\%$  of F.S (CT primary / shunt setting)

Input Burden 0.5 VA at 5A
Sampling Rate 3 samples / second

Dielectric withstand Voltage 2kV AC between auxiliary supply &

measuring input

Rated Impulse with stand Voltage 3.5kV (1.2/50 $\mu$ S)

# **Supply Specifications**

Auxiliary Supply	AC: 240V AC ±20%, (50 / 60Hz)
	110V AC ±20%, (50 / 60Hz)
Supply Frequency	50 / 60Hz
Power Consumption	5VA max @ 240V AC

### **Resettable Parameters**

C.T Primary / Shunt 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
C.T Secondary Setting	5A Fixed

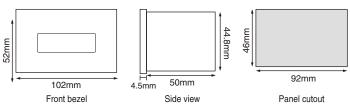
### **Environmental Specifications**

Temperature	Operating: 0 to 50°C (32 to 122°F)
	Storage: 0 to 70°C (32 to 158°F)
Humidity (non-condensing)	Upto 85% RH

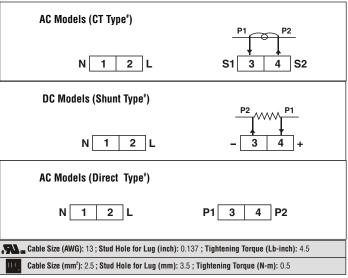
### **Mechanical Specifications**

Mounting	Panel mount
Weight	170 gms (0.374 lbs)
Protection Level	IP65 for faceplate

### **Dimensions**



## **Terminal Connections**



#### \*NOTE

- $\textbf{1) CT Type:} \ \text{There is an internal CT with CT setting. Above 5A (0-5A model) external CT is required.}$
- 2) Shunt Type: External Shunt (50mV / 100mV DC) is required for measurement.
- $\textbf{3) Direct Type:} \ \textbf{Input is directly connected to the input of the unit.} \\$





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# **Ordering Information**

Part No.	СТ	Shunt		Supply	Voltage	Certification	
	Type	Type	Type	110V AC	240V AC	C€	c UL us
MA12	-				-		
MA12-CU	-				-	-	-
MA12-110V	-			-			
MA12-110V-CU	-			-		-	-
MA12-20A-AC			-		-		
MA12-20A-AC-110V			-	-			
MA12-AC-2/20mA			-		-		
MA12-AC-2/20mA-CU			-		-	-	-
MA12-AC-2/20mA-110V			-	-			
MA12-AC-2/20mA-110V-CU			-	-		-	-
MA12-AC-200/2000mA			-		-		
MA12-AC-200/2000mA-CU			-		-	-	-
MA12-AC-200/2000mA-110			-	-			
MA12-AC-200/2000mA-110-CU			-	-		-	-
MA12-50mV-DC		-					
MA12-50mV-DC-CU		-			-	-	-
MA12-50mV-DC-110V		-		-			
MA12-50mV-DC-110V-CU		-		-		-	-
MA12-75mV-DC		-			-		
MA12-75mV-DC-CU		-			-	-	-
MA12-75mV-DC-110V		-		-			
MA12-75mV-DC-110V-CU		-		-			-
MA12-100mV-DC		-			-		
MA12-100mV-DC-CU		-				-	-
MA12-100mV-DC-110V		-		-			
MA12-100mV-DC-110V-CU		-		-		-	-
MA12-DC-2mA			-				
MA12-DC-2mA-CU			_				-
MA12-DC-2mA-110V			-	-			
MA12-DC-2mA-110V-CU			-	-		-	-
MA12-DC-20mA			-		-		
MA12-DC-20mA-CU			-				
MA12-DC-20mA-110V				-			
MA12-DC-20mA-110V-CU						-	-
MA12-DC-200mA			-				
MA12-DC-200mA-CU						-	-
MA12-DC-200mA-110V			-				
MA12-DC-200mA-110V-CU						-	-
MA12-DC-2A					_		
MA12-DC-2A MA12-DC-2A-CU			_				-
MA12-DC-2A-C0					-		
IVIA 12-DU-ZA-11U			_				

# Note:

- CT Type: There is an internal CT with CT setting (5-4000A).
   For current input >5A, external CT is required.
- 2) Shunt Type: There is an internal Shunt with Shunt setting (5-4000A).
  External Shunt (50mV/75mV/100mV) is required.
- 3) Direct Type: Input is directly connected to the unit.