



96 x 96mm

Features :

- Active Energy
- Single Pulse Output
- Programmable CT Primary / Secondary (For EM306A-C)
- MODBUS RTU Communication (RS485) (For EM306A-C)
- Programmable CT / PT Primary / Secondary (For EM306A)

Display Specifications

Display	7 Segments LED Display
Digits	6
LED Indications	Integration of Energy x 10 for Resolution, CT Reversal

Input Specifications

Electrical Connection	3Ø - 3 wire, 3Ø - 4 wire, 2Ø - 3 wire, 1Ø - 2 wire
Input Voltage Range	11 to 300V AC (L - N) 19 to 519V AC (L - L)
Input Current Range	Nominal 5A AC (Min - 11mA, Max - 6A)
Frequency	45 to 65Hz
Power Consumption	8VA max
Display Reset	Programmable (For energy)
Resolution	For energy : 0.01k, 0.1k, 1k, 10k (depending upon CT ratio)
Accuracy	Class 1
Memory Retention	10 years (For energy)
Measuring Parameters	Active Energy (Total)

Output Specifications

Pulse Output	Voltage Range : External 24V DC max Current Capacity : 100mA max Pulse Width : 100ms ±5ms
Communication Interface and Protocol	RS485 and MODBUS RTU
Communication Address	1 to 255
Transmission Mode	Half duplex
Transmission Distance	500 meter maximum
Transmission Speed	300, 600, 1200, 2400, 4800, 9600, 19200 (in bps)
Parity	None, Odd, Even
Stop Bits	1 or 2
Response Time	100ms (max and independent of baud rate)

Auxiliary Supply Specifications

Supply Voltage	EM306A : 230V AC, ±20%, 50 / 60Hz EM306A-C : 100 to 240V AC, -15% to +12%, 50 / 60Hz (±5%)
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Settable Parameters

CT Primary	1 / 5A upto 10kA (Programmable for any value) Note : 1A or 5A depends upon the CT Secondary
CT Secondary	1 / 5A (Programmable)
PT Primary	100V to 500kV (Only for EM306A-230V)
PT Secondary	100V to 500V AC (Only for EM306A-230V)

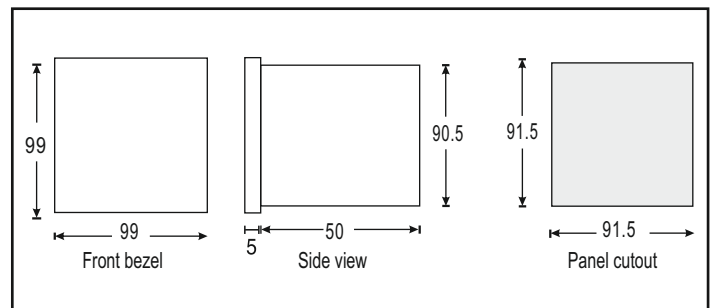
Environmental Specifications

Temperature	Operating Temperature : -10° to 55°C Storage Temperature : -20° to 75°C
Humidity (non - condensing)	Upto 85% RH

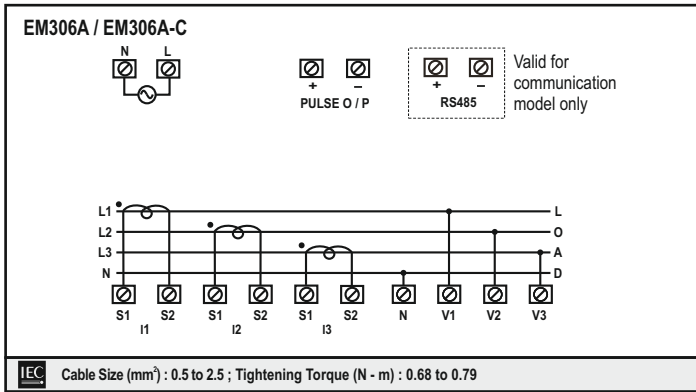
Mechanical Specifications

Mounting	Panel
Weight	EM306A-230V : 230gms EM306A-C : 280gms

Dimensions



Terminal Connection



Ordering Information

Product Code	Supply Voltage	Output		Certification
		Pulse Output	Comm. (RS485)	
EM306A-C	100 to 240V AC	Yes	Yes	--
EM306A-230V	230V AC	Yes	--	--