



96 x 96mm

Features :

- 3Ø Power (Active, Reactive)
- 3Ø Power Factor
- Energy (Active, Reactive, Apparent)
- Programmable CT / PT Primary / Secondary
- Modbus RTU Communication (RS485) (Optional)
- Single Pulse Output

Certifications : CE 

Display Specifications

Display	LCD with Backlight
Digits	8
Digit Height	10.5mm

Input Specifications

Electrical Connection	3Ø - 3 wire, 3Ø - 4 wire, 2Ø - 3 wire, 1Ø - 2 wire
Input Voltage	11 to 300V AC (L - N) 19 to 519V AC (L - L)
Input Current	Nominal 5A AC (Min - 11mA, Max - 6A)
Measurement Range	99999999
Frequency	45 to 65Hz
Power Consumption	8VA max
Display Reset	Programmable (For energy)
Resolution	For energy : 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M, 10M (depending upon CT ratio x PT ratio)
Accuracy	Power (Active, Reactive) : ±1% Energy (Active, Reactive, Apparent) : Class1 Power Factor & AVG Power Factor : ±1%
Memory Retention	10 years (For energy)
Measuring Parameters	Active, Reactive & Apparent Energy (Individual), Power Factor (Individual / Average), Active Power & Reactive Power (Total)

Output Specifications

Pulse Output	Voltage Range : External 24V DC 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)

Supply Specifications

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

CT Primary	1 / 5A to 10,000A (Programmable for any value)
CT Secondary	1 / 5A (External CT must be connected for current more than 5A)
PT Primary	100V to 500kV (Programmable for any value)
PT Secondary	100V to 500V AC (L - L) (Programmable for any value)

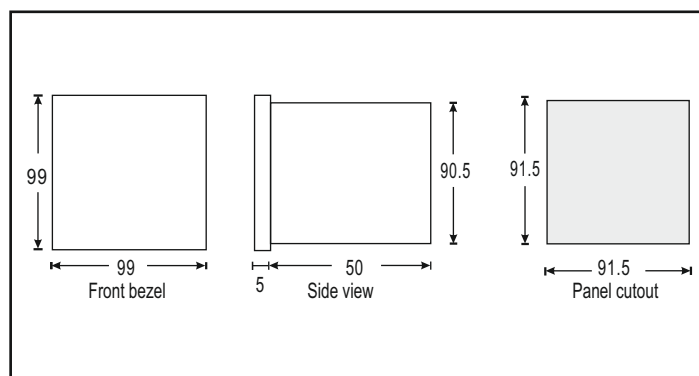
Environmental Specifications

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

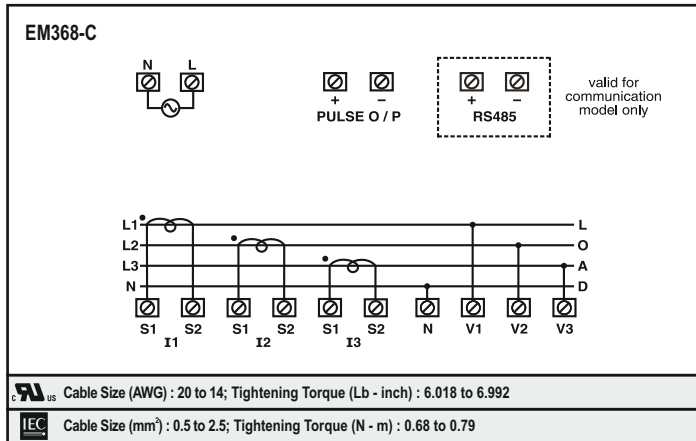
Mechanical Specifications

Mounting	Panel
Weight	302gms

Dimensions



Terminal Connection



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)

Ordering Information

Product Code	Supply Voltage	Output		Certification	
	100 - 240V AC	Pulse Output	Comm. (RS485)	CE	UL LISTED
EM368-CU	Yes	Yes	--	CE	UL LISTED
EM368-C-CU	Yes	Yes	Yes	CE	UL LISTED