

### 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 : C € CUL US

#### **Display specifications**

LCD with backlight Display 8 digits Digits 0.36" Digit height Resolution For energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M,10M (depending upon CT ratio x PT ratio)

### Input specifications

Type of measurement TRUE RMS Sampling rate 100 Samples / Cycle Electrical connections 3Ø - 3 wire, 3Ø - 4 wire, 2Ø - 3 wire, 1Ø - 2 wire Input-voltage PT primary 100V to 500kV (Programmable for any value) 100V to 500V AC (L - L) PT secondary (Programmable for any value) 11 to 300V AC (L - N), 19 to 519V AC (L - L) Voltage nominal Impedance ≥0.8MΩ 45 - 65Hz Frequency range VA burden <0.2VA at 300V AC L-N / Phase Input-current

CT ratings primary 1 / 5A to 10kA (Programmable for any value) 1 / 5A (Programmable for any value) CT ratings secondary Current nominal

120A for 1sec Withstand continuous 45 - 65Hz Frequency range

0.5VA at 5A / Phase VA burden

Measurement accuracy

Power factor ±1% ±1% Power Class 1 Active energy

#### **Output specifications**

Pulse output	Voltage range : External 24V DC max Current capacity : 100mA max Pulse width : 100ms ±5ms
Device ID & Parity	1 to 255 & None, Odd, Even
Protocol & Interface	RS485 and MODBUS RTU
Baud rate	9600
Transmission mode	Half duplex
Transmission distance	500 meter maximum
Transmission speed	300, 600, 1200, 2400, 4800, 9600, 19200
Stop bits	1 or 2
Response time	100ms (max and independent of baud rate)
Isolation	Yes

## Mechanical specifications

Weight	302gms
Material	LEXAN 923-7035 GRAY
IP degree of protection	IP51 Front only
Torque at terminals	0.68N-m to 0.79 N-m
Wire gauge at terminals	20 to 14AWG;75°C
Mounting position	Vertical

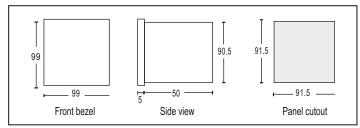
#### Auxiliary supply specifications

Supply voltage	100 to 240V AC, -15% to +12%, 50 / 60Hz (±5%)
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## **Environmental specifications**

Pollution degree	2	
Measurement category	CAT III	
Altitude	Up to 2000 meters	
Humidity	85% RH (Non-Condensing)	
Storage temperature	Meter -20°C to +75°C	
Operating temperature	Meter 0°C to +50°C	

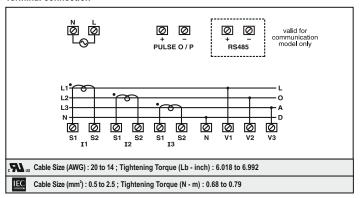
## Dimensions (All are in mm)



**Energy Meter** 

EM368-C

## **Terminal connection**



## Compliance

Applicable EMI / EMC Standards				
Product Standard : IEC 61326 - 1				
Category	Standards compliance			
Electrostatic discharge	IEC 61000 - 4 - 2			
Immunity to electromagnetic RF fields	IEC 61000 - 4 - 3			
Conducted immunity	IEC 61000 - 4 - 6			
Immunity to magnetic fields	IEC 61000 - 4 - 8			
Immunity to voltage dips and interruptions	IEC 61000 - 4 - 11			
Fast transient	IEC 61000 - 4 - 4			
Immunity to surge waves	IEC 61000 - 4 - 5			
Conducted and radiated emissions	CISPR-22 / CISPR-11			
Safety and Standards				
IEC61010 Edition 3.0 CAT III, Protection class II				
IEC 61326 - 1				

# **Ordering information**

Product code	Supply voltage	Output		Certification
r roudet code	100 to 240V AC	Pulse output	Comm. (RS485)	
EM368-C-CU	YES	YES	YES	C€ cUL us

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