



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 cUL<sup>us</sup>  
LISTED

**Display specifications**

Display	LCD with backlight
Digits	8 digits
Digit height	0.36"
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
<b>Input-voltage</b>	
PT primary	100V to 500kV (Programmable for any value)
PT secondary	100V to 500V AC (L - L) (Programmable for any value)
Voltage nominal	11 to 300V AC (L - N), 19 to 519V AC (L - L)
Impedance	≥0.8MΩ
Frequency range	45 - 65Hz
VA burden	<0.2VA at 300V AC L-N / Phase
<b>Input-current</b>	
CT ratings primary	1 / 5A to 10kA (Programmable for any value)
CT ratings secondary	1 / 5A (Programmable for any value)
Current nominal	5A
Withstand continuous	120A for 1sec
Frequency range	45 - 65Hz
VA burden	0.5VA at 5A / Phase
<b>Measurement accuracy</b>	
Power factor	±1%
Power	±1%
Active energy	Class 1

**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**

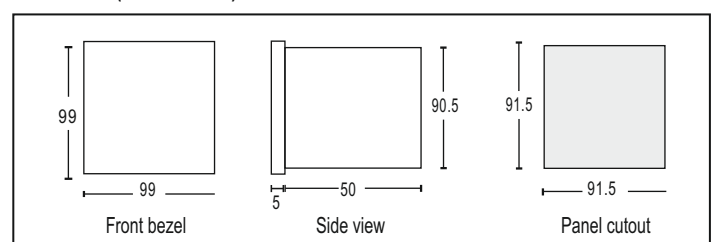
Weight	302gms
Material	LEXAN 923-7035 GRAY
IP degree of protection	IP51 Front only
Torque at terminals	0.68N-m to 0.79 N-m
Wire gauge at terminals	20 to 14AWG;75°C
Mounting position	Vertical

**Auxiliary supply specifications**

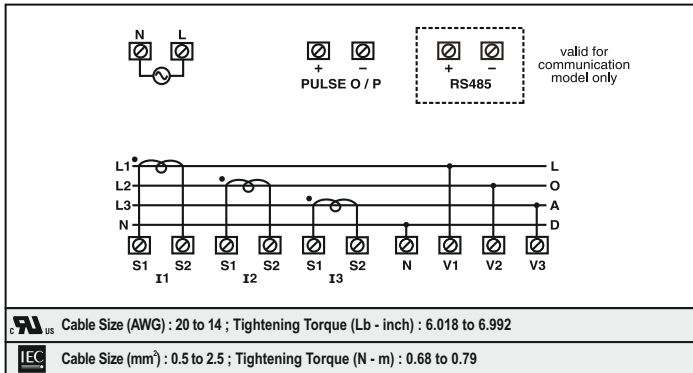
Supply voltage	100 to 240V AC, -15% to +12%, 50 / 60Hz (±5%)
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**Environmental specifications**

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

**Dimensions (All are in mm)**

## 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
	100 to 240V AC	Pulse output	Comm. (RS485)	
EM368-C-CU	YES	YES	YES	CE 