



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^{us}
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 |
| Input-voltage | |
| 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 |
| Input-current | |
| 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 |
| Measurement accuracy | |
| 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

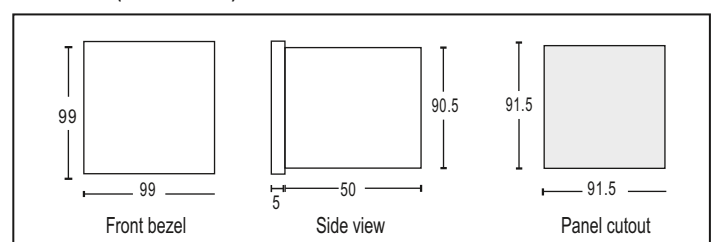
| | |
|-------------------------|---------------------|
| Weight | 302gms |
| Material | LEXAN 923-7035 GRAY |
| IP degree of protection | IP51 Front only |
| Torque at terminals | 0.68N-m to 0.79 N-m |
| Wire gauge at terminals | 20 to 14AWG;75°C |
| Mounting position | Vertical |

Auxiliary supply specifications

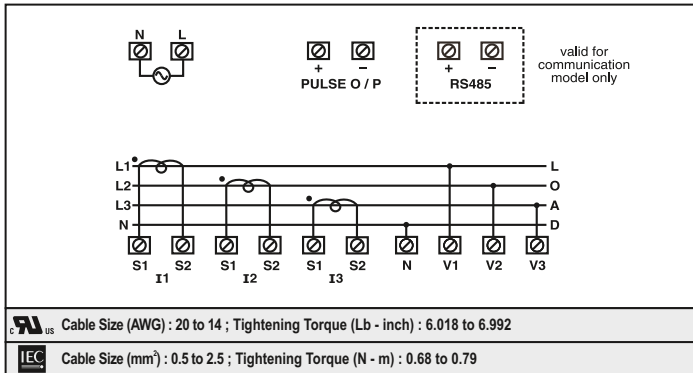
| | |
|----------------|---|
| Supply voltage | 100 to 240V AC, -15% to +12%, 50 / 60Hz (±5%) |
|----------------|---|

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 LISTED |