

Application

- Sub Metering In Commercial Building
- Branch Circuit Monitoring
- Utility Application



Feature

- Suit for 3 phase 4 wire connection mode
- Used for 4x3 phase AC measuring
- LCD display U, I, P, Q, S, PF, F, kWh, kvarh
- Over & Under limit alarm, up to 500 alarm records
- Max. measure current up to 600A
- 33.3mA & 100mA rated current input (optional)
- LED light indicates alarm & communication status
- Standard 35mm DIN Rail Mount

Main Function

Real-time Measurement

- Voltage, Current, Active Power, Reactive Power, Apparent Power, Power Factor, Frequency, Active Energy, Reactive Energy

Data Logging Every 15 Minutes

- Total active energy, total active power, current

Over & Under Limit Alarm & Record Function

- Over voltage, Under voltage, Over current

Communication

- 1 RS485 port, MODBUS-RTU protocol

Technical Specification

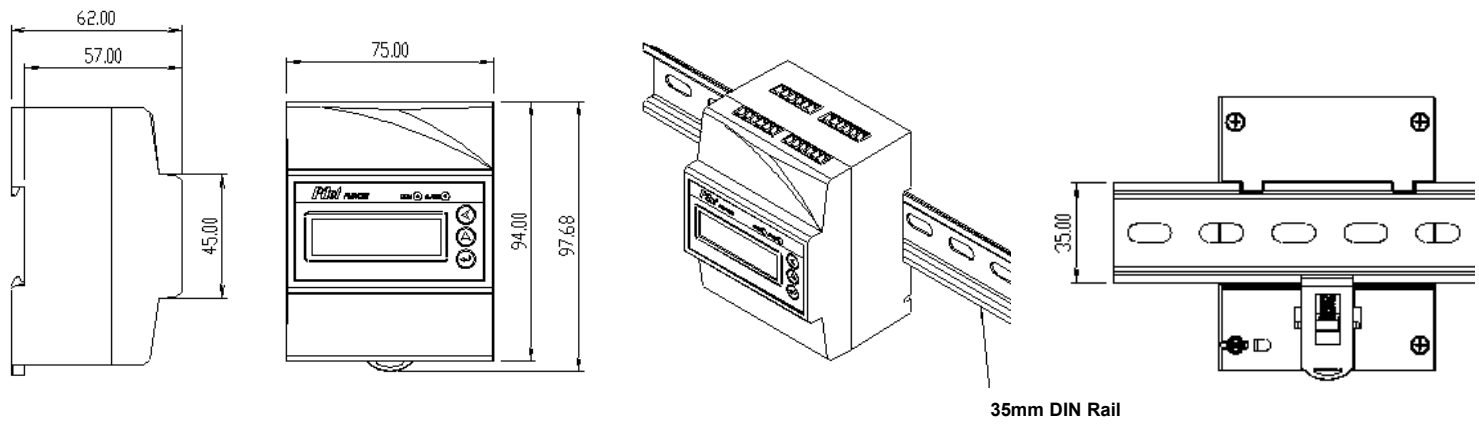
| | |
|------------------------------|---|
| Connection Mode | 3 phase 4 wires |
| Rated Current Input | 100 mA & 33.3mA (Optional) |
| Rated Voltage Input | 3*220/380V, 45Hz ~ 65Hz |
| Power Supply | AC 85 ~ 265V, DC 100~300V |
| Power Loss | ≤2W |
| Communication | RS485 serial, support Modbus-RTU Baud rate: 4800, 9600 bps Address: 1~247 |
| IP Index | IP52 (front panel), IP20 (whole device) |
| Dimension (L x W x H) | 94*75*62mm |
| Environment | Operating temperature: -10°C~ +55 °C Storage temperature: -40°C~ +70 °C Humidity: 5%~95% non-condensing |

| Parameter | Accuracy | Resolution | Measuring Range |
|---|---------------------|------------|-----------------------|
| Voltage | 0.5% | 0.1V | AC 0~300V |
| Current | 0.5% | 0.1A | AC 0~600A |
| Active Power | 1.0% | 0.1W | each phase: 0~216kW |
| Reactive Power | 2.0% | 0.1var | each phase: 0~216kVar |
| Power Factor | 1.0% | 0.001 | -1.000~+1.000 |
| Frequency | 0.5% | 0.01Hz | 45~ 65 Hz |
| Active Energy | 1.0% | -- | 0~ 99,999,999.9 kWh |
| Reactive Energy | 2.0% | -- | 0~ 99,999,999.9 kWh |
| Standard (EMC) | | | |
| Electrostatic discharge immunity test | IEC 61000-4-2: 2001 | | |
| Radiated immunity test | IEC 61000-4-3: 2002 | | |
| Electrical fast transient/burst immunity test | IEC 61000-4-4: 2006 | | |
| Surge immunity test (1, 2/50μs~8/20μs) | IEC 61000-4-5, 2005 | | |
| Radio frequency immunity | IEC 61000-4-6: 2006 | | |
| Electromagnetic emission limit | CISPR22: 2006 pass | | |

PMAC211 Multi-Circuit Energy Meter

Dimension

Unit: mm



Current Transformer



LACT-100C1



LACT-100K1



CTSA



CTSB

Order Information

| | | Order Code | | Description |
|---------------------|-----------------------------|---|------------|--|
| Main Module | | PMAC211 | - M | Main module with 4*3 circuit energy monitoring |
| CT Accessory | For 33.3mA Secondary | LACT-100K1 | | Split Core CT: $\Phi 16.2\text{mm}$, 100A/33.3mA, Class 0.5 |
| | For 100mA Secondary | LACT-100C1 | | Solid Core CT: $\Phi 12\text{mm}$, 100A/100mA, Class 0.5 |
| | | CTSA016 | | Split Core CT: $\Phi 16\text{mm}$, 100A/100mA, Class 0.5 |
| | | CTSA024 | | Split Core CT: $\Phi 24\text{mm}$, 200A/100mA, Class 0.5 |
| | | CTSB0203 | | Split Core CT: 20*30mm, 400A/100mA, Class 0.5 |
| CTSB0508 | | Split Core CT: 50*80mm, 600A/100mA, Class 0.5 | | |

Traditional Energy Meter

SPM211 Multi-Circuit Energy Meter



Before

After

All in One, Cost Saving, Space Saving