

NDM30 Rail Type Single Phase Electricity Meter



NDM-30

Rail Type Single Phase Electricity Meter

The energy-meters “with a white back-lighted LCD screen for perfect reading” are used to measure single-phase like residential, Utility, and Industrial applications. The unit measures and displays various important electrical parameters and provide a communication port for remote reading and monitoring. Bi-directional energy measurement makes the unit a good choice for solar PV energy metering.

Application Areas

- Shopping Malls
- Industrial Zones
- Electric Distribution Companies
- Marinas
- Residences
- Airports
- Factories
- Holiday Villages

Standarts

- IEC62053-21
- EN50470-3

Advantages

- Suitability for rail type application solutions,
- Class 0.5 and Class 1 application,
- Competitive prices,
- Compatibility with all software through Modbus RTU protocol communication,
- Measurement capability up to 100 Amperes,
- Capability for bidirectional measurement,
- Occupies less space compared to competitors,
- Proven reliability with unique design,
- Invoicing of high-cost liquid fuels with different tariff options for generator tariff types,
- Easy collection of payments from subscribers with prepaid types and the advantage of upfront payment collection,
- Higher measurement accuracy classes compared to analyzers,
- Wide measurement range



Features

- Operating temperature: -25°C to +55°C
- Storage/transport temperature: -40°C to +70°C
- Reference temperature: 23°C ± 2°C
- Relative humidity: 0% to 95%, non-condensing
- Installation category: CAT II
- Electromagnetic environment: M1
- Pollution degree: E2
- Power consumption: <2W/10VA
- Frequency: 50Hz
- AC voltage withstand: 4KV for 1 minute
- Impulse voltage withstand: 6KV-1.2μS waveform
- Overcurrent withstand: 30I_{max} for 0.01s
- Pulse 1 output rate: configurable, default 1000i/kWh
- Pulse 2 output rate: non-configurable, 1000i/kWh
- Display: Backlit LCD
- Maximum reading: 99999.99kWh

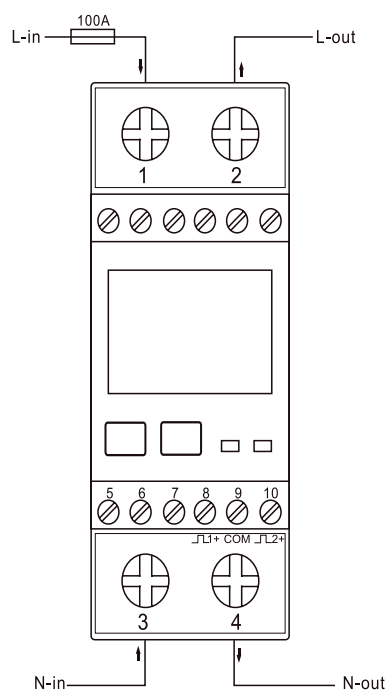
Accuracy

- Voltage: 0.5%
- Current: 0.5%
- Frequency: 0.2%
- Active power: 1%
- Reactive power: 1%
- Apparent power: 1%
- Active energy: Class 1 IEC62053-21, Class B EN50470-3
- Reactive energy: 1%

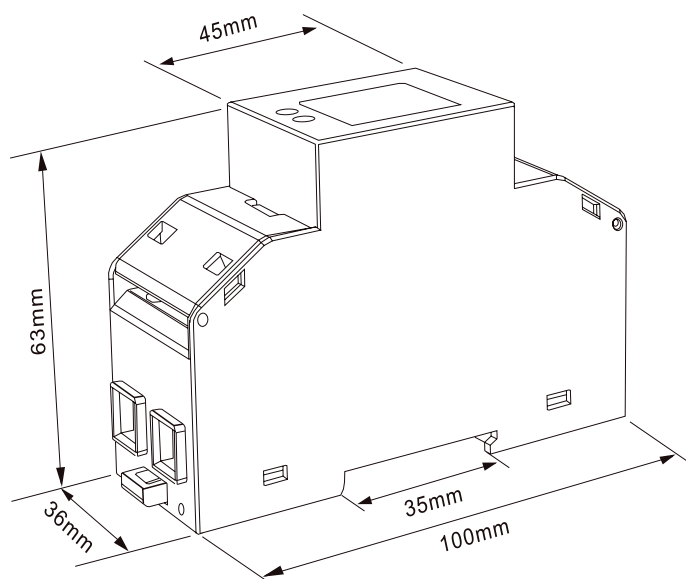
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Wiring Diagram



Dimensions





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