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Product Ref: **D1P100A/2M**

## **SDM230-DR**

*Single-Phase Two Module DIN rail Meters*



- Measure Total Energy
- Two pulse outputs
- Din rail mounting 35mm
- 100A direct connection
- Better than Class 1 / B accuracy

### Application

The energy-meters “with a blue back-lighted LCD screen for perfect reading” are used to measure single-phase like residential, Utility and Industrial application. The unit measures and displays various important electrical parameters.

## PART 1 Specification

### General Specifications

|                           |  |
|---------------------------|--|
| Voltage AC (Un)           | 230V   |
| Voltage Range             | 176~276V AC                                  |
| Base Current (Ib)         | 10A  |
| Max. Current (Imax)       | 100A   |
| Mini Current (Imin)       | 0.5A   |
| Starting current          | 0.4% of Ib                                   |
| Power consumption         | <2W/10VA                                     |
| Frequency                 | 50Hz(±10%)                                   |
| AC voltage withstand      | 4KV for 1 minute                             |
| Impulse voltage withstand | 6KV-1.2uS waveform                           |
| Overcurrent withstand     | 30Imax for 0.01s                             |
| Pulse output rate         | 1000imp/kWh (Import)<br>1000imp/kWh (Export) |
| Display                   | LCD with blue backlit                        |
| Max. Reading              | 999999.9kWh                                  |

### Accuracy

|               |                     |
|---------------|---------------------|
| Active energy | Class 1 IEC62053-21 |
|---------------|---------------------|

### Environment

|  |                          |
|--|--------------------------|
| Operating temperature                  | -25°C to +55°C           |
| Storage and transportation temperature | -40°C to +70°C           |
| Reference temperature                  | 23°C ± 2°C               |
| Relative humidity                      | 0 to 95%, non-condensing |
| Altitude                               | up to 2500m              |
| Warm up time                           | 10s                      |
| Installation category                  | CAT III                  |
| Mechanical Environment                 | M1                       |
| Electromagnetic environment            | E2                       |
| Degree of pollution                    | 2                        |

## Output

### Pulse Output

The meter provides two pulse outputs. Both pulse outputs are passive type.

Pulse 1: Export active energy, constant 1000imp/KWh, pulse width 100ms, non-configurable

Pulse 2: Import active energy, constant 1000imp/KWh, pulse width 100ms, non-configurable

## Mechanics

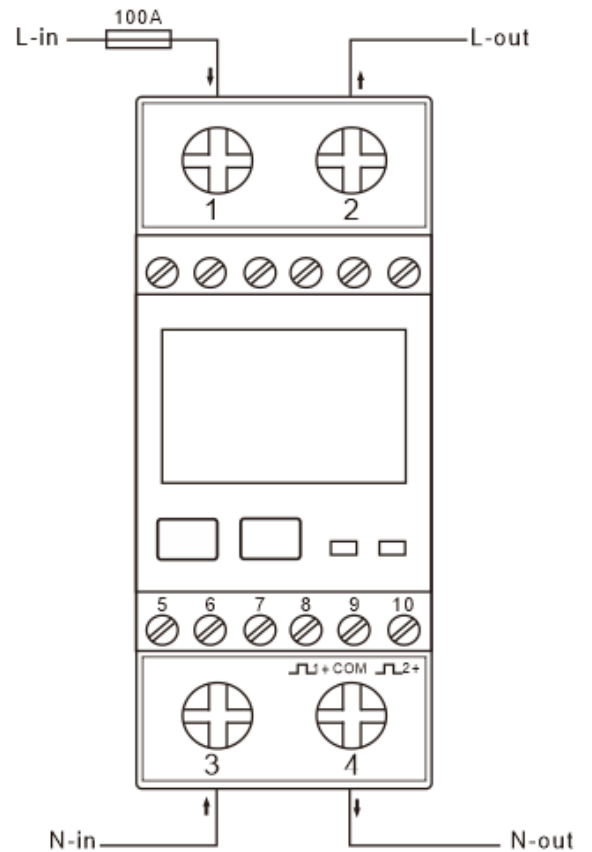
Din rail dimensions 36x99x63 (WxHxD) DIN 43880

Mounting DIN rail 35mm

Sealing IP51 (indoor)

Material self-extinguishing UL94V-0

## Wiring diagram



## Dimensions

