

DIN Rail Mounted / Three Phase/ (100A) DRT100-WF (SDM630 Wifi)



Eastron
EUROPE

Datasheet

- **Multi-measurement: kWh,W, V, A, PF, Hz, dmd,etc.**
- **LCD with backlit**
- **2 Pulse Output + WIFI communication**
- **Bi-directional Measurement**
- **Max. 100A Direct Load**
- **4 Module 72mm Width**
- **MID approved**



The SDM630 Wifi is an advanced multifunction three-phase energy monitoring solution with Wifi communication. Equipped with configuration and display buttons for ease of navigation through the various parameters and settings. Housed for DIN rail mounting, IP51 protection and direct connection up to 100A. Selectable measurement modes using our free configurations software for kWh display. An Energy app is available to view real time measurements and usage over time in graphs. Total kWh (Import + Export), Import kWh and Net kWh (Export - Import) Certified in the UK according to EU Directive 2014/32/EU. MID Certificate number 0120 / SGS0151.

Specification table

| Specification | |
|------------------------------|---------------------|
| Nominal voltage(Un) | 3x230/400 V ac |
| Operational voltage | 80%~120% of Un |
| Insulation capabilities | |
| - AC voltage withstand | 4KV for 1 minute |
| - Impulse voltage withstand | 6KV-1.2μs |
| Basic current (Ib) | 10A |
| Maximum rated current (Imax) | 100A as per page 11 |
| Operational current range | 0.4% Ib-Imax |
| Over current withstand | 30 Imax for 0.01s |
| Operational frequency range | 50 or 60Hz |
| Power consumption per phase | ≤ 2W/10VA |
| Display | LCD |

| Performance criteria | |
|--------------------------------------------------|----------------------------|
| Operating humidity | ≤ 90% |
| Storage humidity | ≤ 95% |
| Operating temperature | -25°C - +55°C |
| Storage temperature | -40°C - +70°C |
| Reference temperature | 23°C± 2°C |
| International standard | IEC 62053-21 / EN50470-1/3 |
| Accuracy class | Class1/Class B |
| Installation category | CAT III |
| Mechanical environment | M1 |
| Electromagnetic environment | E2 |
| Degree of pollution | 2 |
| Protection against penetration of dust and water | IP51(indoor) |
| Insulating encased meter of protective class | II |
| Electrostatic discharges | 8kV contact / 15kV air gap |
| Electromagnetic HF fields | IEC 61000-4-3 |
| Electrical fast transients | 4kV |

| Accuracy | |
|-------------------------------|-----------------------|
| Voltage,Current | 0-5% |
| Frequency | 0-2% of mid-frequency |
| Power factor | 1% of unity (0.01) |
| Active power , Apparent power | ±1% of range maximum |
| Reactive power | ±1% of range maximum |
| Reactive energy(Varh) | Class 2 |
| Active energy (Wh) | Class 1 |

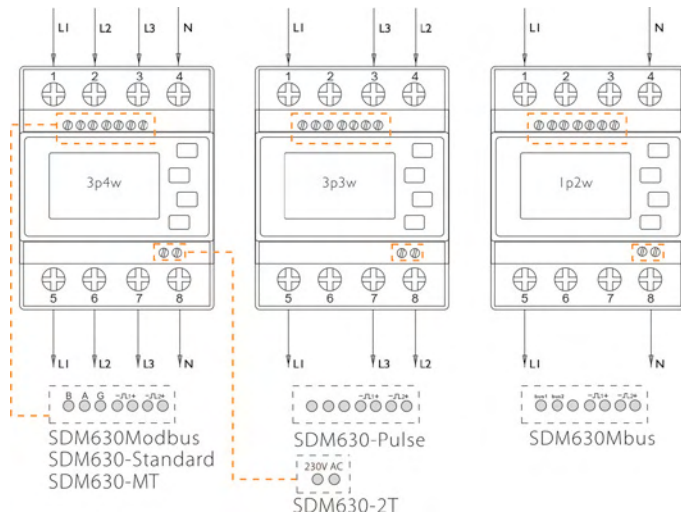
| Pulse output | |
|-------------------|-----------------------|
| Pulse outputs | 2 |
| Pulse output type | Passive |
| Pulse output 1 | Configurable |
| Pulse width | 200/100(default)/60ms |
| Pulse output 2 | 400imp/kWh |

| Wifi communication | |
|--------------------|--------------|
| Wi-Fi support | 2.4Ghz b/g/n |
| Wi-Fi data freq. | Every second |

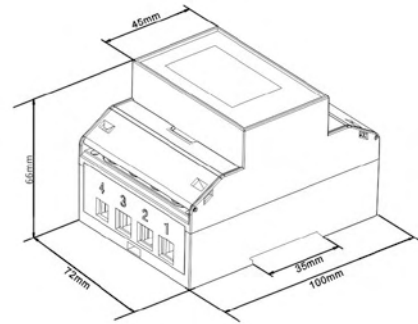
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Wiring Configuration



Dimension Drawing



Height 100mm
Width 72mm
Depth 66mm

Conformity References

Electromagnetic Compatibility: EN61326-1:2013 & EN61326-2-3:2013

Low Voltage Directive: EN61010-1-2010 & EN61010-2-30-2010

MID DIRECTIVE: 2014/32/EU