

# Eastron SDM630 - Wi-Fi | Quick start guide

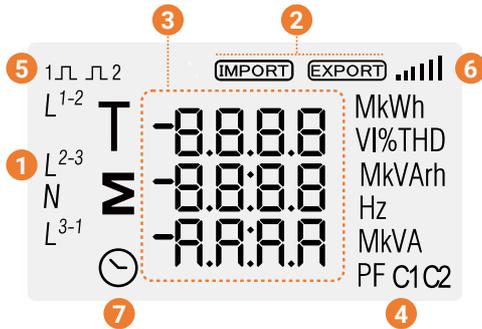
The SDM630-WIFI is designed for multi-phase residential, utility and industrial applications. Use the HomeWizard Energy app to view realtime measurements and usage over time in graphs. The device displays various important electrical parameters on a LED backlit LCD display. Bi-directional energy measurement makes the SDM630 an excellent choice for solar PV energy metering.



**WARNING:** Do not install this device unless you are familiar with electrical installations and the hazards involved when working with high power equipment. Failure to observe this precaution could result in bodily injury.

## 1. Installation

- 1.1 Verify that the incoming power is disconnected before you start the installation.
  - 1.2 Make sure there is sufficient space required for the installation in your breaker box then click the meter onto the DIN rail.
  - 1.3 Connect the fase(s) of the power source to terminal 1/2/3 and your neutral to 4.
  - 1.4 Connect the measured source (Solar panels, car charger, heat pump) fuses to terminal 5/6/7 and neutral to 8.
- If you don't have a neutral wire, connect your fase L2 to terminal 4 and 8 instead of 2 and 6. (3p3w)
- 1.5 Close your breaker box and enable incoming power. The display of the SDM630 will now light up, if not verify if the SDM630 is powered and correctly connected.



### Display information

Press the up and down arrows to switch between different values.

1. Total, fases or sum
2. Import or Export energy
3. Measured value (8 digits)
4. Measurement units
5. Pulse 1 and 2
6. Wi-Fi signal strength
7. Time identifier

## 2. App

- 2.1 Download the free 'HomeWizard Energy' app on the iPhone or Android app store.
- 2.2 Follow the steps in the app to create a HomeWizard Account.
- 2.3 When asked to 'Start pairing mode', Press the Wifi button on the device until the screen shows 'AP'. While 'AP' is blinking you are able to setup the device. The device is successfully setup as soon as the 'Wifi signal strength' bar is on.
- 2.5 The installation is now completed.

### Specification

#### General (based on 3p4w)

|                     |                 |
|---------------------|-----------------|
| Voltage AC (Un)     | 3x230/400V      |
| Voltage Range       | 80%~120% of Un  |
| Base Current (Ib)   | 10A             |
| Max. Current        | 100A            |
| Mini Current (Imin) | 5% of Ib        |
| Starting Current    | 0.4% of Ib      |
| Power consumption   | <2W             |
| Display             | LED backlit LCD |
| Max reading         | 9999999.9       |

#### Environment

|                       |                    |
|-----------------------|--------------------|
| Operating temperature | -25°C to +55°C     |
| Storage temperature   | -40°C to +70°C     |
| Reference temperature | 23°C ± 2°C         |
| Relative humidity     | 0 - 95% no condens |
| Altitude              | Up to 2000m        |
| Warm up time          | 5 seconds          |
| Vibration             | 10Hz to 50Hz       |
| Shock                 | 30g in 3 planes    |

#### Mechanic

|                    |                            |
|--------------------|----------------------------|
| Mounting           | DIN rail 35mm              |
| Din rail (WxHxD)   | 72x100x66 mm               |
| Ingress protection | IP51 (Indoor)              |
| Material           | Self-extinguishing UL94V-0 |

#### Accuracy

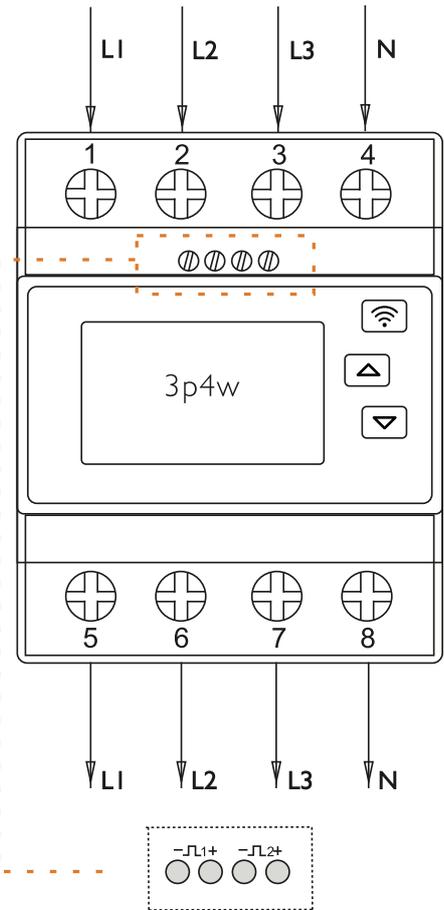
|                 |   |
|-----------------|---|
| Voltage         | 0.5% of range max.                        |
| Current         | 0.5% of nominal                           |
| Frequency       | 0.2% of mid freq.                         |
| Power factor    | 1% of unity                               |
| Active power    | 1% of range max.                          |
| Reactive power  | 1% of range max.                          |
| Apparent power  | 1% of range max.                          |
| Reactive energy | Class 2 IEC62053-23                       |
| Active energy   | Class 1 IEC62053-21/<br>Class B EN50470-3 |

#### Output

|                  |   |
|------------------|---|
| Wi-Fi support    | 2.4Ghz b/g/n                                      |
| Wi-fi data freq. | Every second                                      |
| Pulse 1 imp/kWh  | 400 (default) /<br>100/10/1/0.1/0.01              |
| Pulse 1 output   | Export (default) /Import of<br>total kWh or kVarh |
| Pulse 2 output   | 400 Imp/kWh Import                                |



HomeWizard Energy App connected  
Measures kWh, kVarh, kW, kVar, kVA, PF, Hz, V/I %THD, V, A.  
Bi-directional measurement (solar)  
Two pulse outputs  
100A direct connection  
Better than class 1 / B accuracy



### Troubleshooting

If the device can not find your Wi-Fi, it may be incompatible (5Ghz) or have insufficient signal strength.

If Wi-Fi connecting fails, verify if your inserted Wi-Fi password is correct.

You can reset your Wi-Fi credentials by pressing the Wi-Fi button (10s) until the screen shows ' - - - '.

It is prohibited and therefore impossible to reset the meter energy totals.

