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SOLAX POWER SDM630MCT V2 Din Rail Smart Meter User Manual

Contents

SOLAX

SOLAX POWER SDM630MCT V2 Din Rail Smart Meter

DIN RAIL SMART METER
FOR SINGLE AND THREE PHASE ELECTRICAL SYSTEMS

Introduction

This document provides operating, maintenance and installation instructions. This unit measures and displays the characteristics of single phase two wires(1p2w),three phase three wires(3p3w) and three phase four wires(3p4w) networks .The measuring parameters include voltage(V), frequency(Hz),current(A),power(kW/Kva/Kvar),import, export and total Energy(kWh/kvArh).The unit can also measures Maximum demand current and power. This is measured over preset periods of up to 60 minutes.
This unit is a 1A or 5A current transformer operated and can rug██noc ebed to work with a wide range of CTs. Built-in pulse and Modbus or M-Bus outputs.Configuration is password protected.
This unit can be powered from a separate auxiliary (AC or DC) supply. Alternatively it can be powered from the monitored supply by linking the voltage reference and neutral reference in to terminals 5 and 6 (Please refer to wiring diagram).

Unit Characteristics
The Unit can measure and display:

- Voltage and THD% (total harmonic distortion) of all phases
- Line frequency
- Currents, current demand and current THD% of all phases
- Power, maximum power demand and power factor
- Active energy imported and exported
- Reactive energy imported and exported

This series includes 4 models

SDM630MCT V2	SDM630MCT-Mbus V2	SDM630MCT-2T V2	SDM630MCT-2T-Mbus
Multi-parameter measurement	Multi-parameter measurement	Multi-parameter measurement	Multi-parameter measurement
Single Tariff 1A/5A CT operated	Single Tariff 1A/5A CT operated	Double Tariff 1A/5A CT operated	Double Tariff 1A/5A CT operated
RS485 Port Modbus RTU	M-Bus Communication	RS485 Port Modbus RTU	M-Bus Communication
Bi-directional energy	Bi-directional energy	Bi-directional energy	Bi-directional energy

Current Transformer Primary Current
SDM630MCT V2 Series is CT operated. you will need to set the correct ratio.
As an example: If using 100/5A CT, you will need to insure CT2 (Secondary) is set to 5 and CT rate is 0020. You divide the primary by the secondary to get the CT rate to be entered (100/5=20).

RS485 Modbus RTU / M-Bus
SDM630MCT V2 and SDM630MCT-2T V2 both meter have a RS485 port with Modbus RTU protocol.
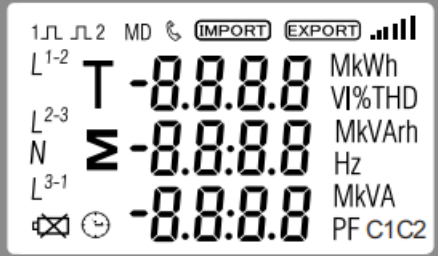SDM630MCT-MbusV2 and SDM630MCT-2T-Mbus has a M-Bus port complying with EN13757-3.
Rs485 or M-Bus provide a means of remotely monitoring and controlling the unit. Set-up screens are provided for settingup the communication port.

Pulse output
Two pulse outputs that pulse measured active and reactive energy. The Pulse 2 constant for active energy is 3200imp/kWh. (Terminals 11 & 12) The pulse width for Pulse 1 can be set from the set-up menu (Terminals 9 & 10).

Start Up Screens

1⌐ ⌐2 MD ☎ (IMPORT) (EXPORT) ▁▃▅▇ L^{1-2} T -8.8.8.8 MkWh / VI%THD L^{2-3} N Σ -8.8.8.8 MkVArh / Hz L^{3-1} ✉ ⏱ -8.8.8.8 MkVA / PF C1C2	The first screen lights up all display segments and can be used as a display check.
SoFt 11 01.03	Software version information
InSt tESt PASS	The interface performs a self-test and indicates the result if the test passes.

After a short delay, the screen will display active energy measurements.

Measurements

The buttons operate as follows

V/A ◄ ESC	Selects the Voltage and Current display screens. In Set-up Mode, this is the "Left" or "Back" button.
MD/ ▲ PF/HZ	Select the Frequency and Power factor display screens. In Set-up Mode, this is the "Up" button.
P ▼	Select the Power display screens. In Set-up Mode, this is the "Down" button.
E ► ↵	Select the Energy display screens. In Set-up mode, this is the "Enter" or "Right" button.

Voltage and Current

Each successive press of the [V/A ESC] button selects a new parameter

L¹ **000.0** V L² **000.0** L³ **000.0**	Phase to neutral voltages.
L¹ **0.000** L² **0.000** A L³ **0.000**	Current on each phase.
L¹ **00.00** V %THD L² **00.00** L³ **00.00**	Phase to neutral voltage THD%.
L¹ **00.00** I%THD L² **00.00** L³ **00.00**	Current THD% for each phase.

Frequency and Power Factor and Demand

Each successive press of the [MD/ ▲ PF/HZ] button selects a new range:

	Description
Σ 00.00 Hz 0.999 PF	Frequency and Power Factor (total).
L¹ 0.999 L² 0.999 L³ 0.999 PF	Power Factor of each phase.
MD 0.000 kW Σ	Maximum Power Demand.
MD L¹ 0.000 L² 0.000 A L³ 0.000	Maximum Current Demand.

Power

Each successive press of the P ▼ button selects a new range:

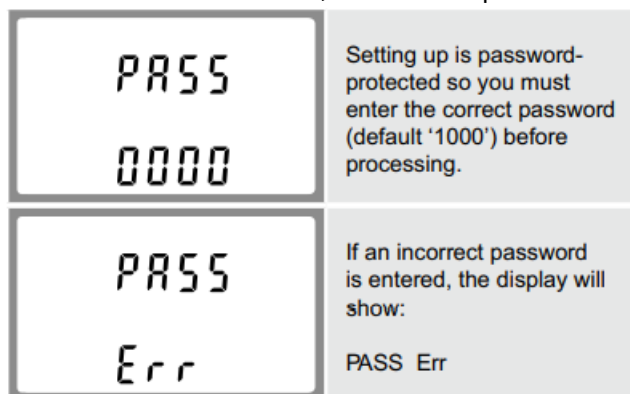| Display	Description
L¹ 0.000 L² 0.000 L³ 0.000 kW	Instantaneous Active Power in kW.
L¹ 0.000 L² 0.000 kVAr L³ 0.000	Instantaneous Reactive Power in kVAr.
L¹ 0.000 L² 0.000 L³ 0.000 kVA	Instantaneous Volt-Amps in KVA.
M 0.000 kW 0.000 kVAr 0.000 kVA	Total kW, kVArh, kVA.

Energy Measurements

Each successive press of the [E] button selects a new range:

IMPORT 0000 0.3 14 kWh	Import active energy in kWh.
EXPORT 0000 000.0 kWh	Export active energy in kWh.
IMPORT 0000 000.0 kVArh	Import reactive energy in kVArh.
EXPORT 0000 000.0 kVArh	Export reactive energy in kVArh.
Σ 0000 03 1.4 kWh	Total active energy in kWh.
Σ 0000 000.0 kVArh	Total reactive energy in kVArh.
T 1run 0000 000.1 kWh	T1 active energy in kWh *For SDM630MCT-2T and SDM630MCT-2T-Mbus only
T 2 0000 000.0 kWh	T2 active energy in kWh *For SDM630MCT-2T and SDM630MCT-2T-Mbus only
T 1run 0000 000.2 kVArh	T1 reactive energy in kVArh *For SDM630MCT-2T and SDM630MCT-2T-Mbus only
T 2 0000 000.0 kVArh	T2 reactive energy in kVArh *For SDM630MCT-2T and SDM630MCT-2T-Mbus only

Set Up

To enter set-up mode, press ![E] button for 3 seconds, the until the password screen appears.

PASS **0000**	Setting up is password-protected so you must enter the correct password (default '1000') before processing.
PASS **Err**	If an incorrect password is entered, the display will show: PASS Err

To exit setting-up mode, press ![V/A ESC] repeatedly until the measurement screen is restored.

Set-up Entry Methods

Some menu items, such as password and CT, require a four-digit number entry while others, such as supply system, require selection from a number of menu options.

Menu Option Selection

1. Use the ![MD/PF/HZ] and ![P] buttons to scroll through the different options of the set up menu.

2. Press ![E] to confirm your selection

3. If an item flashes, then it can be adjusted by the ![MD/PF/HZ] and ![P] buttons.

4. Having selected an option from the current layer, press ![E] to confirm your selection. The SET indicator will appear.

5. Having completed a parameter setting, press ![V/A ESC] to return to a higher menu level. The SET indicator will be removed and you will be able to use ![MD/PF/HZ] the and ![P] buttons for further menu selection.

6. On completion of all setting-up, press ![V/A ESC] repeatedly until the measurement screen is restored.

Number Entry Procedure

When Setting up the unit, some screens require the entering of a number. In particular, on entry to the setting up section, a password must be entered. Digits are set individually, from left to right. The procedure is as follows:

1. The current digit to be set flashes and is set using the ![MD/PF/HZ] and ![P] buttons.

2. Press ![E] to confirm each digit setting. The SET indicator appears after the last digit has been set.

3. After setting the last digit, press ![V/A ESC] to exit the number setting routine. The SET indicator will be removed.

Change Password

Display	Instructions
SEt PRSS 1000	Use the ![MD/PF/HZ] and ![P] to choose the change password option.
SEt PRSS 1000	Press the ![E] to enter the change password routine. The new password screen will appear with the first digit flashing.
SEt PRSS 1000	Use ![MD/PF/HZ] and ![P] to set the first digit and press ![E] to confirm your selection. The next digit will flash.
SEt PRSS 1100	Repeat the procedure for the remaining three digits.
SEt PRSS 1100	After setting the last digit, SET will show.

Press ![V/A ESC] to exit the number setting routine and return to the Set-up menu. SET will be removed.

DIT Demand Integration Time
This sets the period in minutes over which the current and power readings are integrated for maximum demand measurement. The options are: off, 5, 10,15 30,60 minutes.

SEt dIt 10	From the set-up menu, use [MD/PF/HZ ▲] and [P ▼] buttons to select the DIT option. The screen will show the currently selected integration time.
SEt dIt 10	Press [E ▶] to enter the selection routine. The current time interval will flash.
SEt dIt	Use [MD/PF/HZ ▲] and [P ▼] buttons to select the time required.
SEt dIt 20	Press [E ▶] to confirm the selection. SET indicator will appear.

Press [V/A ◀ ESC] to exit the DIT selection routine and return to the menu.

Warnings

Important Safety Information is contained in the Maintenance section. Familiarize yourself with this information before attempting installation or other procedures.

Symbols used in this document
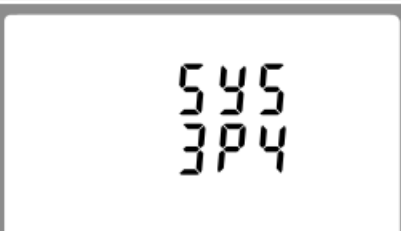
Risk of Danger: These instructions contain important safety information. Read them before starting installation or servicing of the equipment.

Caution: Risk of Electric Shock

Supply System

The unit has a default setting of 3Phase 4wire (3P4). Use this section to set the type of electrical system.

SYS 3P3	From the set-up menu, use MD/PF/HZ ▲ and P ▼ buttons to select the system option. The screen will show the currently selected power supply.
SYS 3P3	Press E to enter the selection routine. The current selection will flash.
SYS 1P2	Use MD/PF/HZ ▲ and P ▼ buttons to select the required system option: 1P2(W),3P3(W) ,3P4(W).
SYS 3P4	Press E to confirm the selection. SET indicator will appear.

Press V/A ESC ◄ to exit the system selection routine and return to the menu. SET will disappear and you will be returned to the main set-up Menu.

CT
The CT option sets the secondary current (CT2 1A or 5A) of the current transformer (CT) that wires to the meter.

SEt Ct2 5	From the set-up menu, use [MD/PF/HZ ▲] and [P ▼] buttons to select the CT option.
SEt Ct2 5	Secondary CT setting Press [E ▶] to enter the CT secondary current selection routine.:5A/1A
Ct rAtE 0001	Set CT Ratio value Press [E ▶] to enter the CT Ratio setting screen. The range is from 0001 to 2000.

For example, if using a 100/5A current transformer you will enter 0020, as you need to divide the primary by the secondary to get the ratio (CT rate).

Please note for the MID approved version device, you will only have one opportunity to set the ratio.

PT

The PT option sets the secondary voltage (PT2 100 to 500V) of the voltage transformer (PT) that may be connected to the meter.

SEt Pt2 400	Use [MD/PF/HZ ▲] and [P ▼] buttons to select the PT option. The screen will show the voltage PT secondary voltage value. The default value is 400V.
SEt Pt2 400	Secondary PT setting Press [E ▶] to enter the PT secondary voltage selection routine. The range is from 100 to 500V.
Pt rAtE 0001	Set PT ratios value Press [E ▶] to enter the PT ratio screen. The range is from 0001 to 9999.

For example, if set the ratio to be 100,it means the primary voltage equals secondary voltage x100.

Pulse Output

This option allows you to configure the pulse output. The output can be set to provide a pulse for a defined amount of energy active or reactive. Use this section to set up the relay pulse output—Units: kWh, kVArh

5Et rLY kWh	From the set-up menu, use MD/PF/HZ ▲ and P ▼ buttons to select the Pulse output option.
5Et rLY kWh	Press E↵ to enter the selection routine. The unit symbol will flash.
5Et rLY kVArh	Use MD/PF/HZ ▲ and P ▼ buttons to choose kWh or kVArh.

On completion of the entry procedure, press E↵ conform the setting and press V/A ESC to return to the main set up menu.

Pulse rate

Use this to set the energy represented by each pulse. Rate can be set to 1 pulse per 0.01kWh/0.1kWh/1kWh/10kWh/100kWh.

5Et rAtE 10

(It shows 1 impulse = 10kWh/kVArh)

```
SEt
rAtE
  10
```

From the set-up menu, use [MD/PF/HZ ▲] and [P ▼] buttons to select the Pulse Rate option.

```
SEt
rAtE
  10
```

Press [E ▶] to enter the selection routine. The current setting will flash. 0.01/0.1/1/10/100kWh/ kVArh per pulse.

Use [MD/PF/HZ ▲] and [P ▼] buttons to choose pulse rate. On completion of the entry procedure, press [E ▶] conform the setting and press [V/A ◀ ESC] to return to the main set up menu.

Pulse Duration
The energy monitored can be active or reactive and the pulse width can be selected as 200, 100 or 60ms.

```
SEt
PULS
 200
```

(It shows pulse width of 200ms)

```
SEt
PULS
 200
```

From the set-up menu, use [MD/PF/HZ ▲] and [P ▼] buttons to select the Pulse width option.

```
SEt
PULS
 200
```

Press [E ▶] to enter the selection routine. The current setting will flash.

Use [MD/PF/HZ ▲] and [P ▼] buttons to choose pulse width.

On completion of the entry procedure press [E ▶] to confirm the setting and press [V/A ◀ ESC] to return to the main set-up menu.

Communication

There is a RS485 port can be used for communication using
Modbus RTU protocol. For Modbus RTU, parameters are selected from Front panel.

RS485 Address

```
    5Et
   Addr
    001
```

(The range is from 001 to 247)

``` 5Et Addr 001 ```	From the set-up menu, [MD/PF/HZ ▲] and [P ▼] buttons to select the address ID.
``` 5Et Addr i01 ```	Press [E ▶] button to enter the selection routine. The current setting will be flashing.
``` 5Et Addr i01 ```	Use [MD/PF/HZ ▲] and [P ▼] buttons to choose Modbus address (001 to 247).

On completion of the entry procedure, press [E ▶] button to confirm the setting and press [V/A ◀ ESC] button to return the main set-up menu.

M-Bus Address

SEt Addr 001	Primary address: 001 to 250 Use **MD/PF/HZ** ▲ and **P** ▼ buttons to select the address value.
SEt Addr 101	Press **E** ▶ to enter the selection routine. The current setting will flash.
Id 9999 9999	Secondary address: 00 00 00 01 to 99 99 99 99

On completion of the entry procedure, press **E** ▶ conform the setting and press **V/A ESC** ◀ to return to the main set-up menu.

Baud Rate

SEt bAUd 9.6 k	From the set-up menu, use [MD/ PF/HZ ▲] and [P ▼] buttons to select the Baud Rate option.
SEt bAUd 9.6 k	Press [E ▶↵] to enter the selection routine. The current setting will flash.
SEt bAUd 38.4 k	Use [MD/ PF/HZ ▲] and [P ▼] buttons to choose Baud rate 2.4k. 4.8k, 9.6k, 19.2k, 38.4k

On completion of the entry procedure, press [E ▶↵] conform the setting and press [V/A ESC ◀] to return to the main set-up menu.

Parity

SEt PArI EuEN	From the set-up menu, use MD/PF/HZ ▲ and P ▼ buttons to select the parity option.
SEt PArI EuEN	Press E to enter the selection routine. The current setting will flash.
SEt PArI nOnE	Use MD/PF/HZ ▲ and P ▼ buttons to choose parity (EVEN / ODD / NONE (default)).

On completion of the entry procedure, press E⏎ conform the setting and press V/A ESC ◄ to return to the main set-up menu.

Stop bits

5Et 5toP 2	From the set-up menu, use [MD/PF/HZ ▲] and [P ▼] buttons to select the stop bit option.
5Et 5toP 2	Press [E ►↵] to enter the selection routine. The current setting will flash.
5Et 5toP 1	Use [MD/PF/HZ ▲] and [P ▼] buttons to choose stop bit (2 or 1) Note: Default is 1, and only when the parity is NONE that the stop bit can be changed to 2.

On completion of the entry procedure, press [E ►↵] confirm the setting and press [V/A ◄ ESC] to return to the main set-up menu.

Backlit set-up
The meter provides a function to set the blue backlit lasting time(0/5/10/30/60/120 minutes).
Option 0 means the backlit always on here.

5Et LP 60	Default:60 If it's setted as 5,the backlit will be off in 5minutes.
5Et LP 60	Use [MD/PF/HZ ▲] and [P ▼] buttons to choose the time

Press [E ►↵] to confirm the setting and press [V/A ◄ ESC] to return to the main set-up menu.

CLR

The meter provides a function to reset the maximum demand value of current and power.

From the set-up menu, use [MD/PF/HZ ▲] and [P ▼] buttons to select the reset option.

Press [E ▶] to enter the selection routine. The dlt will flash.
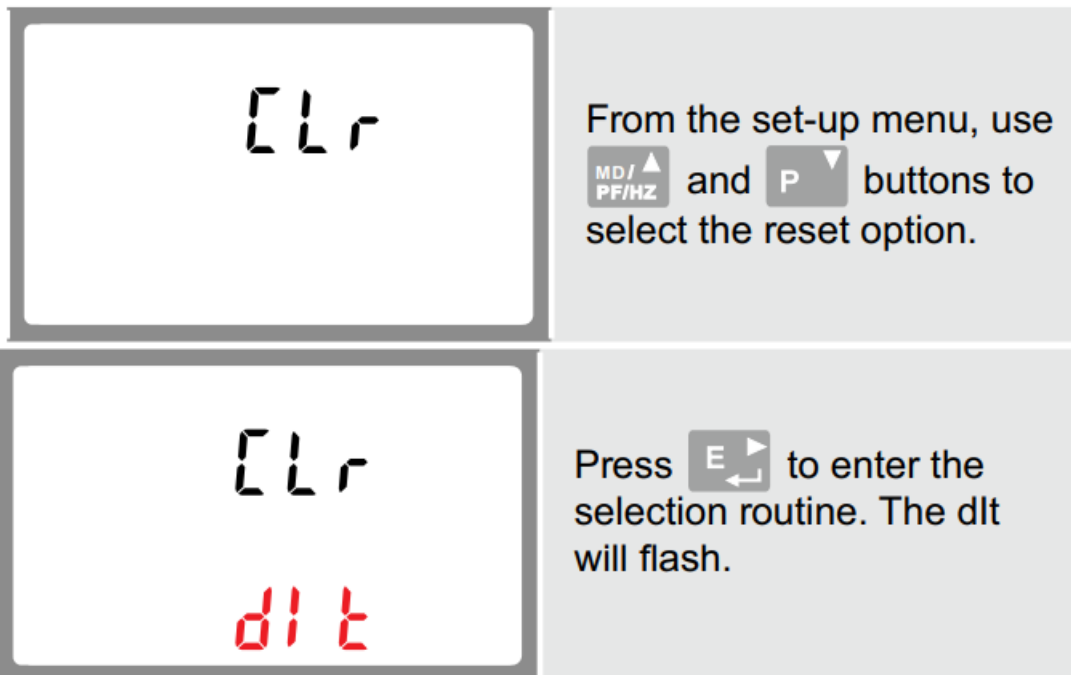
Press [E ▶] to confirm the setting and press [V/A ◀ ESC] to return to the main set-up menu.

Specifications

Measured Parameters

The unit can monitor and display the following parameters of a single phase two wire(1p2w), three phase three wire(3p3w) or three phase four wire(3p4w) system.

Voltage and Current

- Phase to neutral voltages 100 to 289V a.c. (not for 3p3w supplies).
- Voltages between phases 173 to 500V a.c. (3p supplies only).
- Percentage total voltage harmonic distortion (THD%) for each phase to N (not for 3p3w supplies).
- Percentage voltage THD% between phases (three phase supplies only).
- Current THD% for each phase

Power factor and Frequency and Max. Demand

- Frequency in Hz
- Instantaneous power:
- Power 0 to 3600 MW
- Reactive power 0 to 3600 MVAr
- Volt-amps 0 to 3600 MVA
- Maximum demanded power since last Demand reset Power factor
- Maximum neutral demand current, since the last Demand reset (for three phase supplies only)

Energy Measurements

- Import/Export active energy 0 to 9999999.9 kWh

- Import/Export reactive energy 0 to 9999999.9 kVArh

- Total active energy 0 to 9999999.9 kWh

- Total reactive energy 0 to 9999999.9 kVArh

Measured Inputs

Voltage inputs through 4-way fixed connector with 2.5mm² stranded wire capacity. single phase two wire(1p2w), three phase three wire(3p3w) or three phase four wire(3p4w) unbalanced. Line frequency measured from L1 voltage or L3 voltage.

Three current inputs (six physical terminals) with 2.5mm² stranded wire capacity for connection of external CTs. Nominal rated input current 5A or 1A a.c. Rms.

Accuracy

- Voltage 0.5% of range maximum

- Current 0.5% of nominal

- Frequency 0.2% of mid-frequency

- Power factor 1% of unity (0.01)

- Active power (W) ±1% of range maximum

- Reactive power (VAr) ±1% of range maximum

- Apparent power (VA) ±1% of range maximum

- Active energy (Wh) Class 1 IEC 62053-21

- Reactive energy (VArh) ±1% of range maximum

- Total harmonic distortion 1% up to 31st harmonic

- Response time to step input 1s, typical, to >99% of final reading, at 50 Hz.

Auxiliary Supply

Two-way fixed connector with 2·5mm2 stranded wire capacity. 85 to 275V a.c. 50/60Hz ±10% or 120V to 380V d.c. ±20%. Consumption < 10W.

Interfaces for External Monitoring

Three interfaces are provided:

- RS485/Mbus communication channel that can be programmed via protocol remotely.

- Relay output indicating real-time measured energy (configurable)

- Pulse output(Pulse 2) 3200imp/kWh (not configurable)

The Modbus configuration (baud rate etc.) and the pulse relay output assignments (kW/kVArh, import/export etc.) are configured through the set-up screens.

Pulse Output

The pulse output can be set to generate pulses to represent kWh or kVArh.

- Rate can be set to generate 1 pulse per:
  - 0.01 = 10 Wh/VArh
  - 0.1 = 100 Wh/VArh
  - 1 = 1 kWh/kVArh

- ◦ 10 = 10 kWh/kVArh
- ◦ 100 = 100 kWh/kVArh
- ◦ 1000 = 1000 kWh/kVArh
- Pulse width 200/100/60 ms
- Relay Rating 240V ac 50mA

RS485 Output for Modb us RTU

- For Modbus RTU, the following RS485 communication parameters can be configured from the set-up menu:
- Baud rate 2400, 4800, 9600, 19200, 38400
- Parity none (default) / odd / even Stop bits 1 or 2
- RS485 network address nnn – 3-digit number, 1 to 247
- Modbus Word order Hi/Lo byte order is set automatically to normal or reverse. It cannot be configured from the set-up menu.

Reference Conditions of Influence
Influence Quantities are variables that affect measurement errors to a minor degree. Accuracy is verified under nominal value (within the specified tolerance) of these conditions.

- Ambient temperature 23°C ±1°C
- Input frequency 50 or 60Hz ±2%
- Input waveform Sinusoidal (distortion factor < 0·005)
- Auxiliary supply voltage Nominal ±1%
- Auxiliary supply frequency Nominal ±1%
- Auxiliary supply waveform (if AC) Sinusoidal (distortion factor < 0·05)
- Magnetic field of external origin Terrestrial flux

Environment

- Operating temperature -25°C to +55°C*
- Storage temperature -40°C to +70°C*
- Relative humidity 0 to 95%, noncondensing
- Altitude Up to 3000m
- Warm-up time 1 minute
- Vibration 10Hz to 50Hz, IEC 60068-2-6, 2g
- Shock 30g in 3 planes

Maximum operating and storage temperatures are in the context of typical daily and seasonal variation.

Mechanics

- DIN rail dimensions 72 x 94.5 mm (WxH) per DIN 43880
- Mounting DIN rail (DIN 43880)
- Sealing Ip51 (indoor)
- Material Self-extinguishing Ul94 V-0

Maximum operating and storage temperatures are in the context of typical daily and seasonal variation.

Mechanics

- DIN rail dimensions 72 x 94.5 mm (WxH) per DIN 43880
- Mounting DIN rail (DIN 43880)
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Declaration of Conformity(for the MID approved version meter only)
We Zhejiang Eastron Electronic Co.,Ltd.
Declare under our sole responsibility as the manufacturer that the poly phase multifunction electrical energy meter "SDM630MCT V2 Series " correspond to the production model described in the EU -type examination certificate and to the requirements of the Directive 2014/32/EU EU type examination certificate number 0120/SGS0142. Identification number of the NB0120

Dimensions
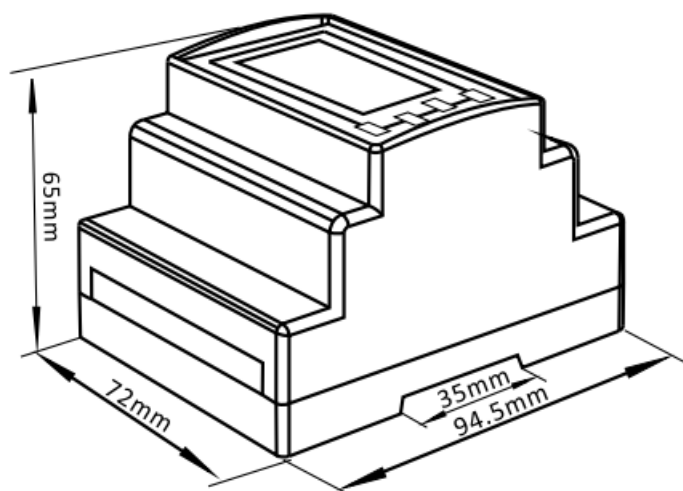
Installation

The wiring diagram of SDM630MCT V2 series has little difference from different models. please make sure the wiring is correct before turning on power of the meter.

Current and Voltage inputs

3 PHASE 4 WIRE

L1
L2
L3
N

| 1 | 2 | 3 | 4 |

MEASURED VOLTAGE

| 15 | 16 | 17 | 18 | 19 | 20 |

CURRENT INPUTS

3 PHASE 3 WIRE

L1
L2
L3

| 1 | 2 | 3 | 4 |

MEASURED VOLTAGE

| 15 | 16 | 17 | 18 | 19 | 20 |

CURRENT INPUTS

1 PHASE 2 WIRE

L1
N

| 1 | 2 | 3 | 4 |

MEASURED VOLTAGE

| 15 | 16 | 17 | 18 | 19 | 20 |

CURRENT INPUTS
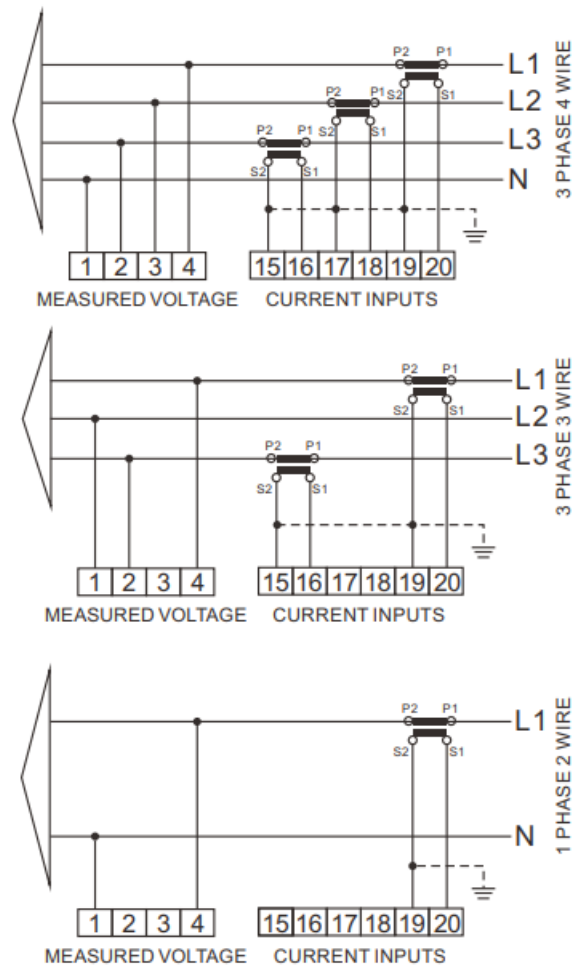
Definitions of other terminals

SDM630MCT V2

```
AUXILIARY        POWER
SUPPLY           OUTPUT
   ┌ ─ ─ ┼ ─ ─ ┐
┌───┬───┐     ┌───┬───┐      1 ⊓ 2    RS485
│ 5 │ 6 │     │ 7 │ 8 │     ┌──┬──┬──┬──┬──┬──┐
└───┴───┘     └───┴───┘     │9 │10│11│12│13│14│
  ↑   ↑         ↓   ↓       └──┴──┴──┴──┴──┴──┘
  L   N         L   N        +  −  + GND  B  A
```

SDM630MCT-2T V2

```
AUXILIARY        2 TARIFFS
SUPPLY           Control
┌───┬───┐     ┌───┬───┐      1 ⊓ 2    RS485
│ 5 │ 6 │     │ 7 │ 8 │     ┌──┬──┬──┬──┬──┬──┐
└───┴───┘     └───┴───┘     │9 │10│11│12│13│14│
  ↑   ↑         ↑   ↑       └──┴──┴──┴──┴──┴──┘
  L   N                      +  −  + GND  B  A
             230V AC
```

SDM630MCT-Mbus V2

```
AUXILIARY        POWER
SUPPLY           OUTPUT
   ┌ ─ ─ ┼ ─ ─ ┐
┌───┬───┐     ┌───┬───┐      1 ⊓ 2      1   2
│ 5 │ 6 │     │ 7 │ 8 │     ┌──┬──┬──┬──┬──┬──┐
└───┴───┘     └───┴───┘     │9 │10│11│12│13│14│
  ↑   ↑         ↓   ↓       └──┴──┴──┴──┴──┴──┘
  L   N         L   N        +  −  +     M-Bus
```

SDM630MCT-2T-Mbus

```
AUXILIARY        2 TARIFFS
SUPPLY           Control
┌───┬───┐     ┌───┬───┐      1 ⊓ 2      1   2
│ 5 │ 6 │     │ 7 │ 8 │     ┌──┬──┬──┬──┬──┬──┐
└───┴───┘     └───┴───┘     │9 │10│11│12│13│14│
  ↑   ↑         ↑   ↑       └──┴──┴──┴──┴──┴──┘
  L   N                      +  −  +     M-Bus
             230V AC
```
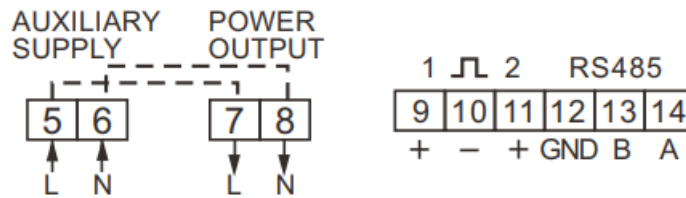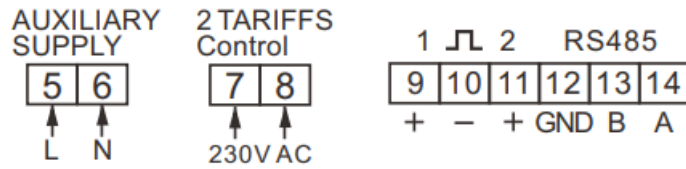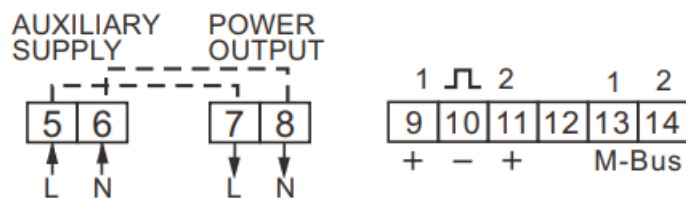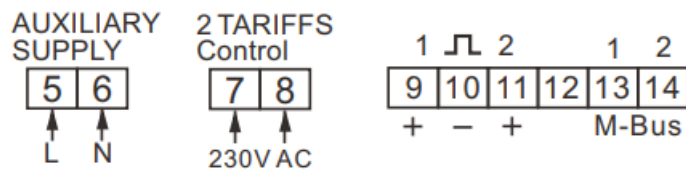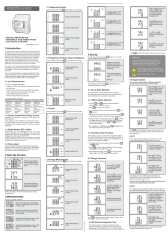
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Documents / Resources

SOLAX POWER SDM630MCT V2 Din Rail Smart Meter [pdf] User Manual
SDM630MCT V2 Din Rail Smart Meter, SDM630MCT V2, Din Rail Smart Meter, Rail Smart Meter, Smart Meter, Meter

References

- **User Manual**