

# SDM630MCT V2 Smart Power Sensor for C&I

## Quick Guide



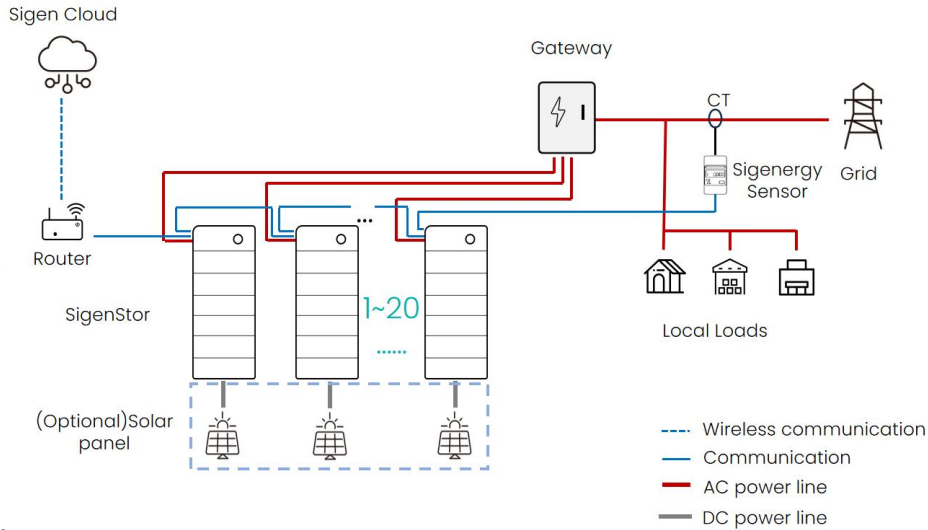
Please scan the QR code to obtain the electronic  
version of the quick guide and user manual



Add: No.52, Dongjin Road, Nanhu, Jiaxing, Zhejiang, 314001, China.  
Tel: 0086-573-83698881/83698882  
Fax: 0086-573-83698883  
Web: [www.eastrongroup.com](http://www.eastrongroup.com)

# Requirement for C&I Power Sensor

## System Networking



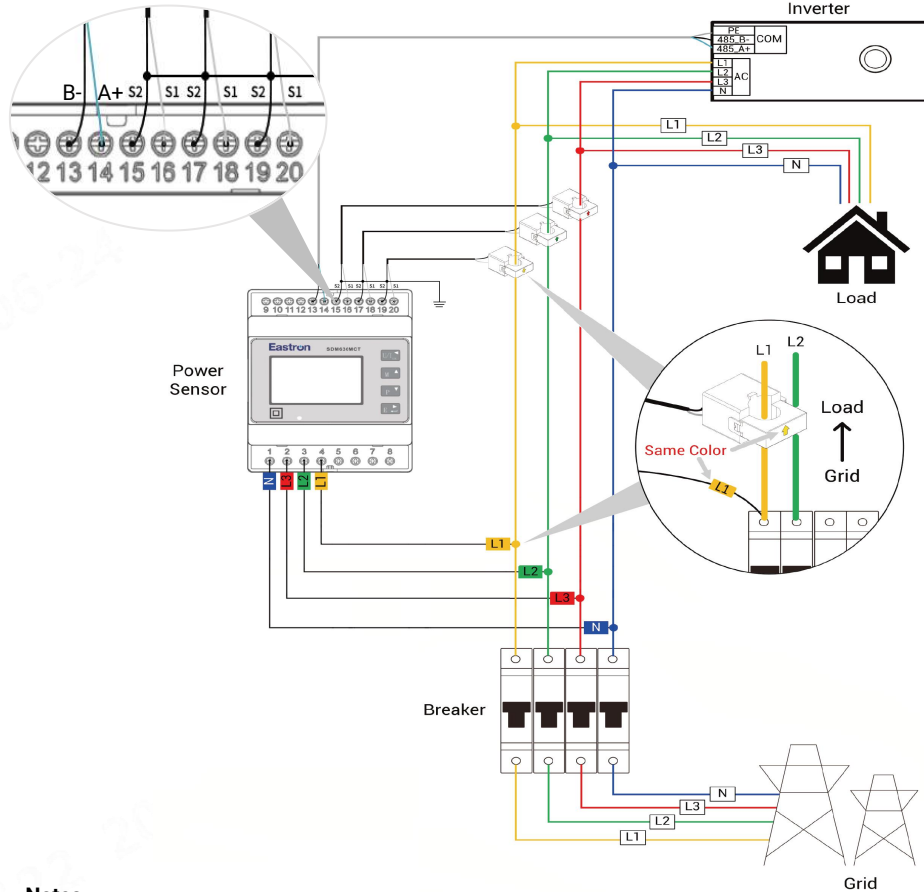
### Notes:

1. For the installation location and wiring of the power sensor, please refer to networking diagram and the wiring guide, or consult our engineer.
2. For voltage sampling, if the grid voltage is  $\leq 480V$ , you can connect the wires directly; if it is  $>480V$ , you need to connect PT
3. C&I power sensor do not include CT and PT, which needs to be purchased separately with the following requirements

CT	Primary rated current $I_n / A$	$\geq$ Measuring current
	Secondary rated current $I_o / A$	5A or 1A
	Accuracy	Class 0.5
	The default CT ratio of the power sensor	Default 120, need to be reset according to the CT ratio
PT	Primary rated voltage/V	$\geq$ Measuring voltage
	Secondary rated voltage/V	$3 \times 57.7V(3P4W)$ , $3 \times 100V(3P3W)$
	Secondary output capacity/VA	$\leq 20$
	Accuracy	Class 0.5
	The default PT ratio of the power sensor	Default 1, need to be reset according to the PT ratio
	Wiring type	3P4W: PT with Y-Y wiring 3P3W: PT with V-V wiring

# Sampling Voltage ≤ 480Vac (3P4W)

## Wiring Guide



### Notes:

1. Sampling voltage ≤ 480Vac (3P4W), please refer to the guide to wire and setup CT ratios.
2. Please ensure that the CT wiring is correct, and ensure that the voltage sampling and CT wiring on different phase lines and meet the corresponding relationship in the table below.

Voltage sampling and CT port wiring table				
	L1 (CT1)	L2 (CT2)	L3 (CT3)	N
Voltage sampling	4	3	2	1
CT+ (S1)	20	18	16	
CT- (S2)	19	17	15	

3. Make sure the direction of the arrow on CT point from grid to load.
4. Power sensor requires circuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification: ≥measuring voltage/1A

## CT Ratio Setup Guide



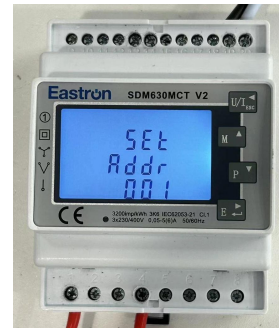
1. Initial interface after power on



2. Press E button for 3s to enter the password input interface



3. Press M button to enter the password (default 1000)



4. Press E button for 3s to enter the setting interface



5. Press P button to select CT→RATE, and press E button for 3s to enter RATE setting interface (Default 120)

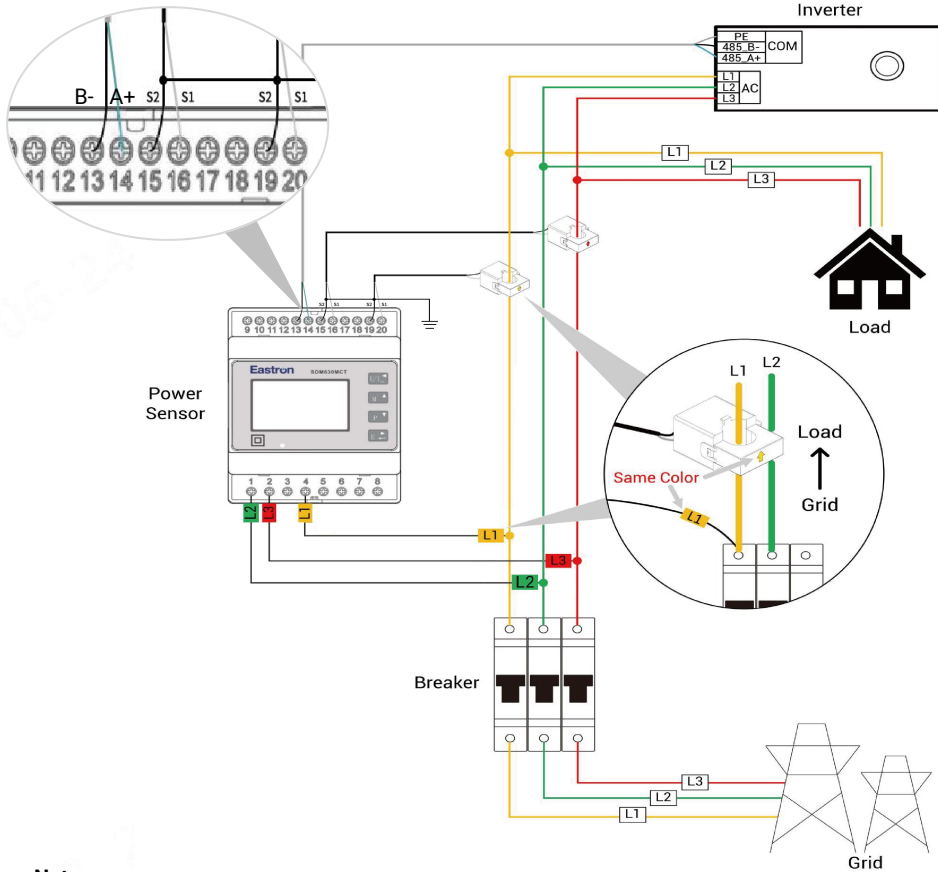


6. Press E button to move the cursor position, and press M button to enter the new CT ratio (example: 200). Then press E button for 3s to exit RATE setting, and press U/I button for 3s to exit the initial interface.

# Sampling Voltage $\leq 480\text{Vac}$ (3P3W)

## Wiring Guide

## 3P3W net Setup Guide



1. Initial interface after power on



2. Press E button for 3s to enter the password input interface



3. Press M button to enter the password (default 1000)



4. Press E button for 3s to enter the setting interface



5. Press P button to select SYS, and press E button for 3s to enter SYS setting interface



6. Press P button to select 3P3, then press E button for 3s to exit SYS setting, then press U/I button for 3s to exit the initial interface.

### Notes:

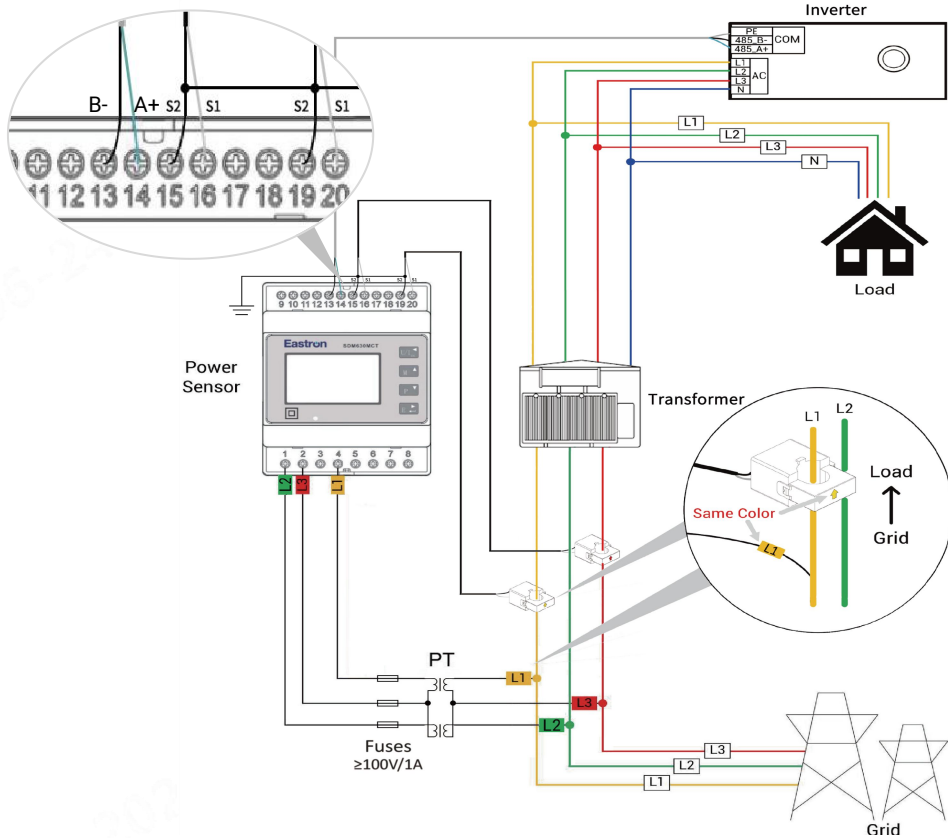
1. Sampling voltage  $\leq 480\text{Vac}$  (3P3W), please refer to the guide to wire, setup the wiring mode and CT ratio.
2. Please ensure that the CT wiring is correct, and ensure that the voltage sampling and CT wiring on different phase lines and meet the corresponding relationship in the table below.

Voltage sampling and CT port wiring table				
	L1 (CT1)	L2	L3 (CT2)	N
Voltage sampling	4	1	2	
CT+ (S1)	20		16	
CT- (S2)	19		15	

3. Make sure the direction of the arrow on CT point from grid to load.
4. Power sensor requires circuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification:  $\geq \text{measuring voltage}/1\text{A}$

# Sampling Voltage > 480Vac (3P3W)

## Wiring Guide



### Notes:

1. Sampling voltage > 480Vac, please refer to the guide to wire, setup the wiring mode and PT ratio.
2. Please ensure that the CT wiring is correct, and ensure that the voltage sampling and CT wiring on different phase lines and meet the corresponding relationship in the table below.

Voltage sampling and CT port wiring table				
	L1 (CT1)	L2	L3 (CT2)	N
Voltage sampling	4	1	2	
CT+ (S1)	20		16	
CT- (S2)	19		15	

3. Make sure the direction of the arrow on CT point from grid to load.
4. Voltage sampling needs to be through the PT. In order to prevent short circuit at the PT secondary side, a fuse is needed to be connected in series for protection. Recommended fuse specifications:  $\geq 100V/1A$

## PT Ratio Setup Guide



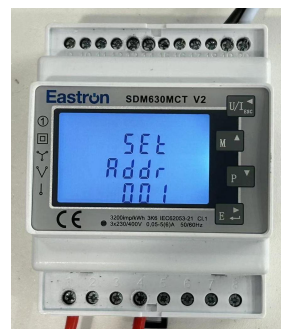
1. Initial interface after power on



2. Press E button for 3s to enter the password input interface



3. Press M button to enter the password (default 1000)



4. Press E button for 3s to enter the setting interface



5. Press and hold the E button to select PT2, press and hold the E button for 3s to enter PT settings, and press and hold the E button for 3s to confirm



6. Press the P button to select PT rate, press and hold the E button for 3s to set the variable ratio, then press and hold the E button for 3s to confirm, and press the U/I button to exit to the initial interface