SEM3-M-2 Smart Power Sensor

Quick Guide

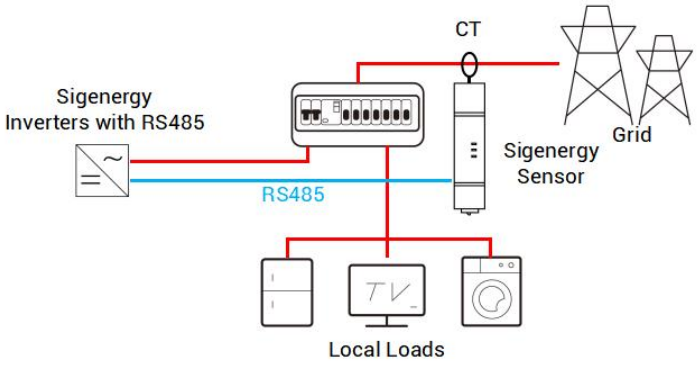


Please scan the QR code to obtain the electronic version of the quick guide and user manual

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Requirement for Power Sensor

System Networking



Notes:

1.For the installation location and wiring of the power sensor, please consult our engineer.

2.For voltage sampling, if the grid voltage is≤277V, you can connect the wires directly;

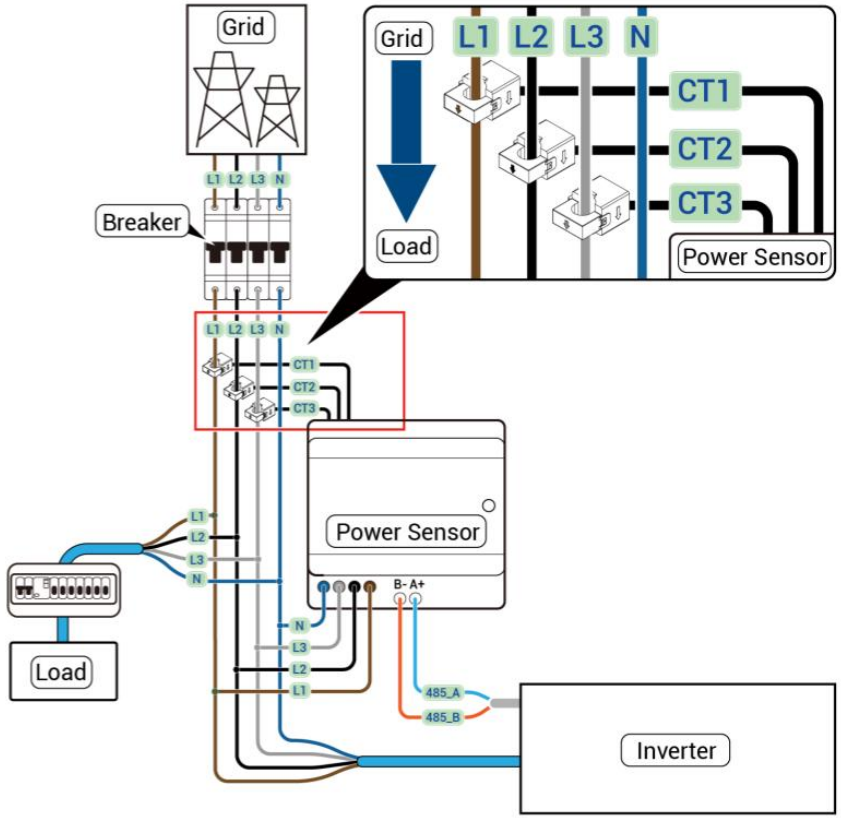
3. power sensor include CTs, which no separate purchase required. If CTs are purchased separatedly, they must meet the following requirements:

CT	Primary rated current I_n/A	≥Measuring current
	Secondary rated current I_o/mA	40mA
	Accuracy	Class 0.5
	The default CT ratio of the power sensor	120A/40mA or 300A/40mA or 600A/40mA

SamplingVoltage≤277Vac

(3P4W)

Wiring Guide



Notes:

1.Sampling voltage≤277Vac(3P4W), please refer to the guide to wire and setup CT ratios.

2. During installation, ensure that the L and N wires are correctly connected.

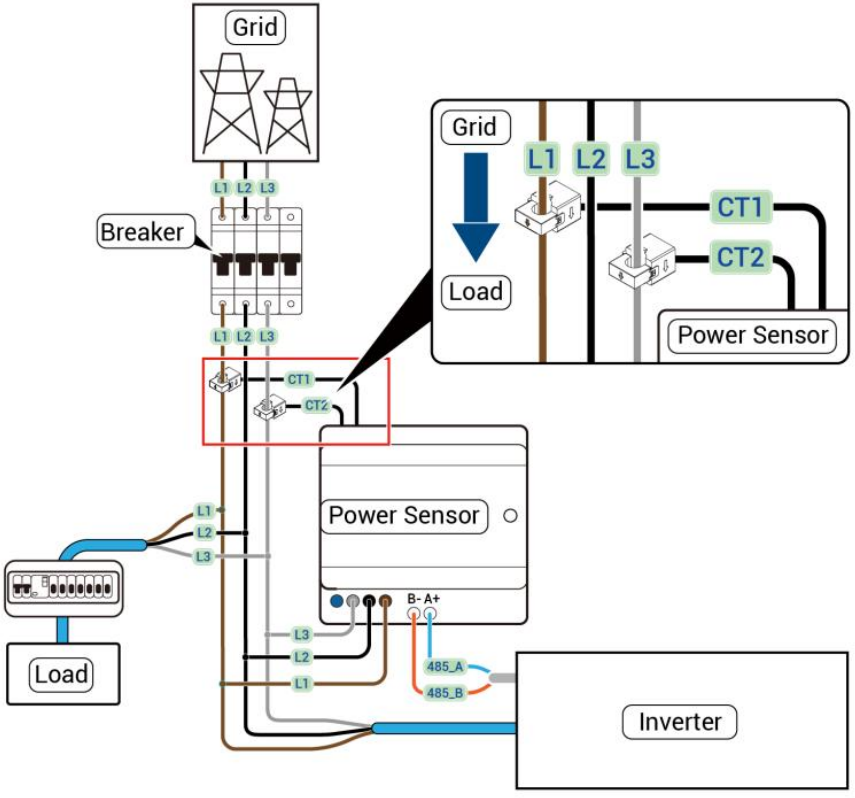
3. Auto-adaptive CT Polarity and Phase Orientation.

4.Power sensor require scircuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification: ≥measuring voltage/1A.

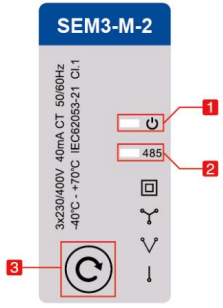
SamplingVoltage≤277Vac

(3P3W)

Wiring Guide



Definition of button and LEDs

Interface	Definition	Introduction
	1.Power LED (Red)	1.Stay on: Light up when the meter is powered on with no load. 2.Flashing: Blinks when a load is connected.
	2.RS485 LED (Green)	1.Stay on: During the OTA upgrading. 2.Flashing: Blinks when the meter is communicating normally.
	3.Key	1. Press and hold for 3 seconds to enter/exit AP mode; 2. Press and hold for 10 seconds to reset communication parameters.

Notes:

1.Sampling voltage≤480Vac(3P3W), correct connect the CT.

2. During installation, ensure that the L and N wires are correctly connected.

3. Auto-adaptive CT Polarity and Phase Orientation.

4.Power sensor require scircuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification: ≥measuring voltage/1A.

5. Please refer to the "Definition of button and LEDs".

6. If the voltage and current wiring is incorrect, all LED lights will remain constantly on, indicating a phase sequence error alarm. The user can resolve this issue by rewiring or using Sigen's upper computer software to make adjustments.

SEM3-M-2功率传感器
快速安装指南

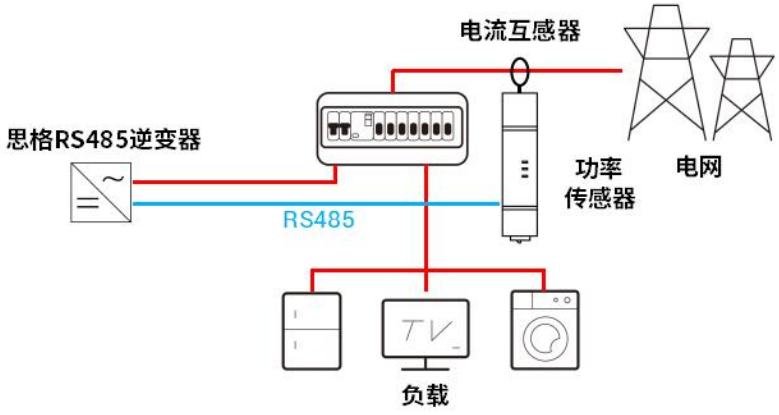


请扫描二维码获取电子版快速安装指南和使用说明书

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功率传感器要求

系统组网图



注意：

1.功率传感器安装位置和接线，请参考系统组网图和接线指导，或者咨询我司工程师。

2.电网电压≤277Vac，功率传感器可直接接线进行电压采样；

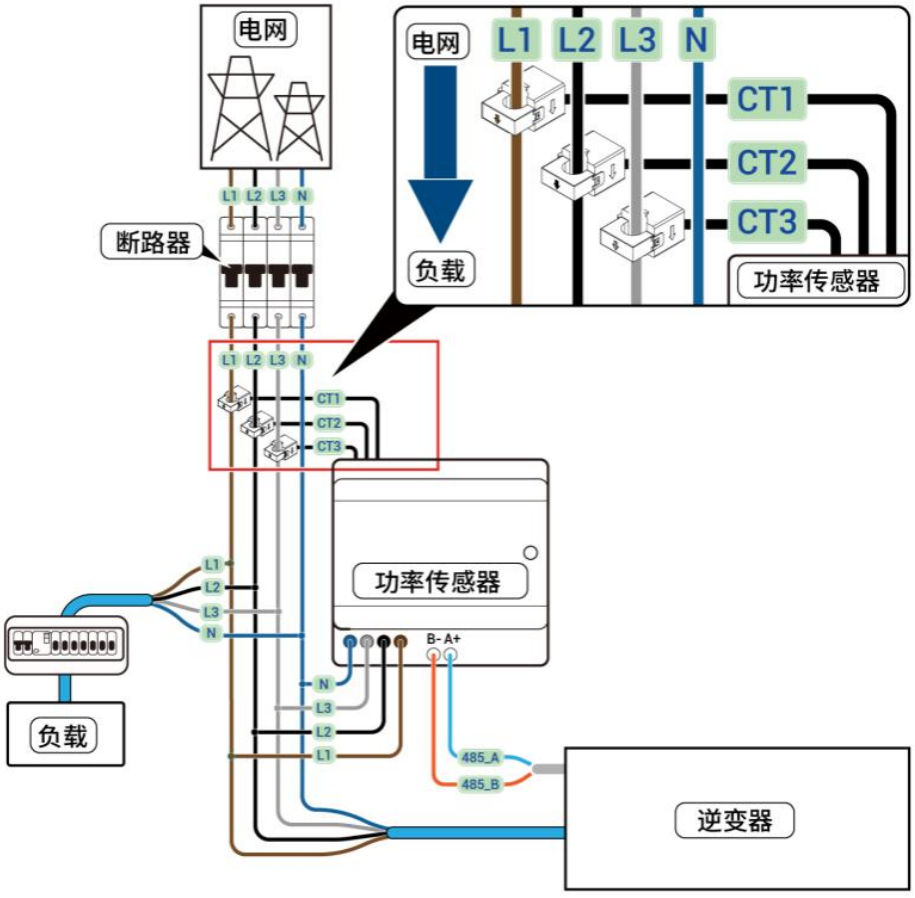
3.功率传感器配备CT，无需购买。若用户自行采购CT,则必须符合以下要求：

CT	一次侧额定电流 I_n/A	≥测量电流
	二次侧额定电流 I_o/mA	40mA
	采样精度	0.5级
	功率传感器默认CT变比	120A/40mA 或300A/40mA 或 600A/40mA

三相四线

(3P4W)

接线指导



注意:

1.请参考指导进行接线。

2.安装时需确保L和N线连接正确。

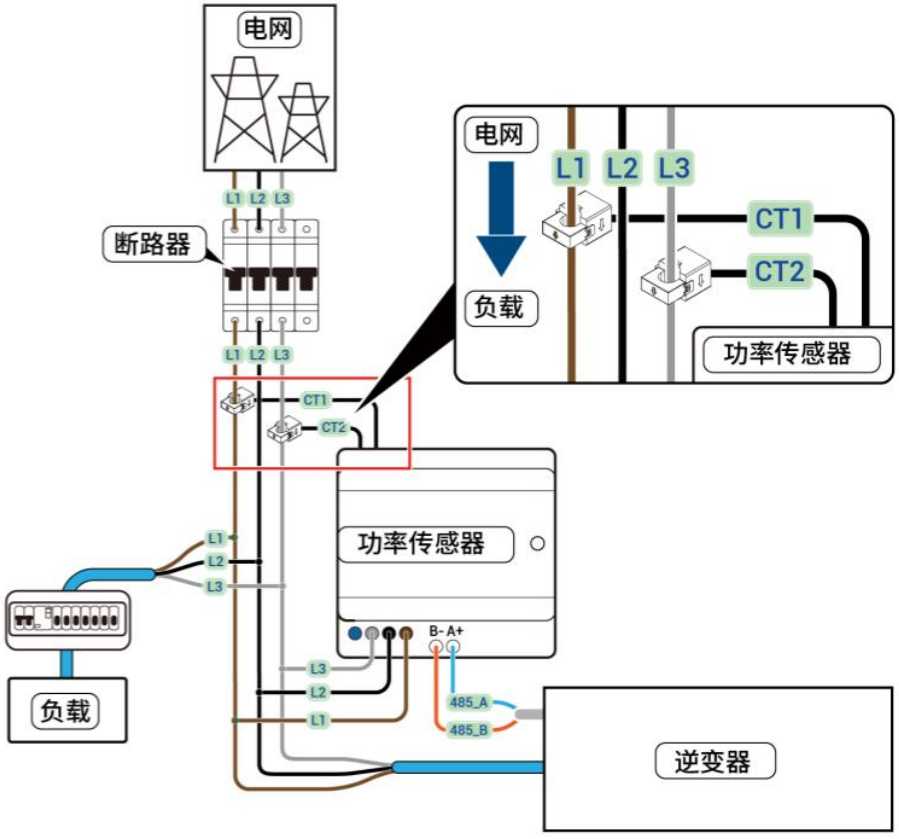
3.CT方向及相位可自适应。

4.功率传感器前端需要安装断路器用于短路保护，否则电压采样线,前端需要串接熔丝进行保护，熔丝推荐规格：≥额定一次侧电压/1A。

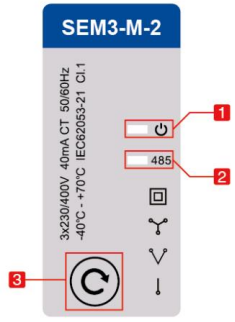
三相三线

(3P3W)

接线指导



按键与LED定义

界面	定义	描述
	1.电源指示灯 （红色）	1.常亮：电表在无负载状态下通电时点亮。 2.闪烁：接入负载时指示灯持续闪烁。
	2.RS485通讯指示灯 （绿色）	1.常亮：表示设备正在进行在线升级。 2.闪烁：电表正常通信时指示灯持续闪烁。
	3.按键	1.长按3秒：进入或退出AP模式。 2.长按10秒：重置通信参数。

注意：

1.请参考指导进行接线。

2.如果用于三相三线电网，请按照下面步骤安装：

将电表L1和L3相的CT和电压采样线分别接到电网其中两根相线上，将剩余N相电压采样线接到电网第三根相线上，确保L和N线接线正确。

3.CT方向及相位可自适应。

4.功率传感器前端需要安装断路器用于短路保护，否则电压采样线,前端需要串接熔丝进行保护，熔丝推荐规格：≥额定一次侧电压/1A。

5.请参考“按键与LED的定义”。

6.当电压与电流的接线错误，所有LED灯保持常亮，表示相序错误告警。用户可通过重新接线或Sigen的上位机软件修改来消除报警。