SEM3-M-2 Smart Power Sensor

# Quick Guide

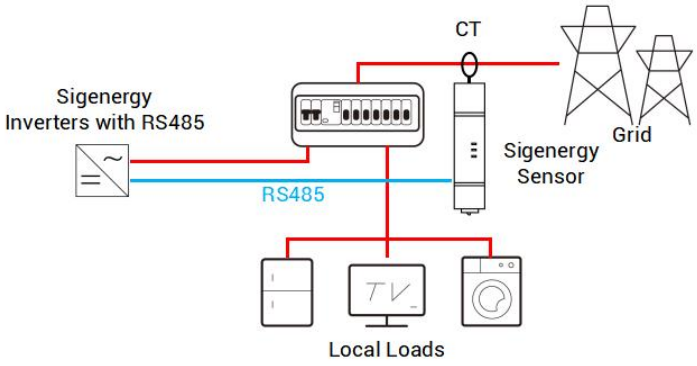



Please scan the QR code to obtain the electronic version of the quick guide and user manual

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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;

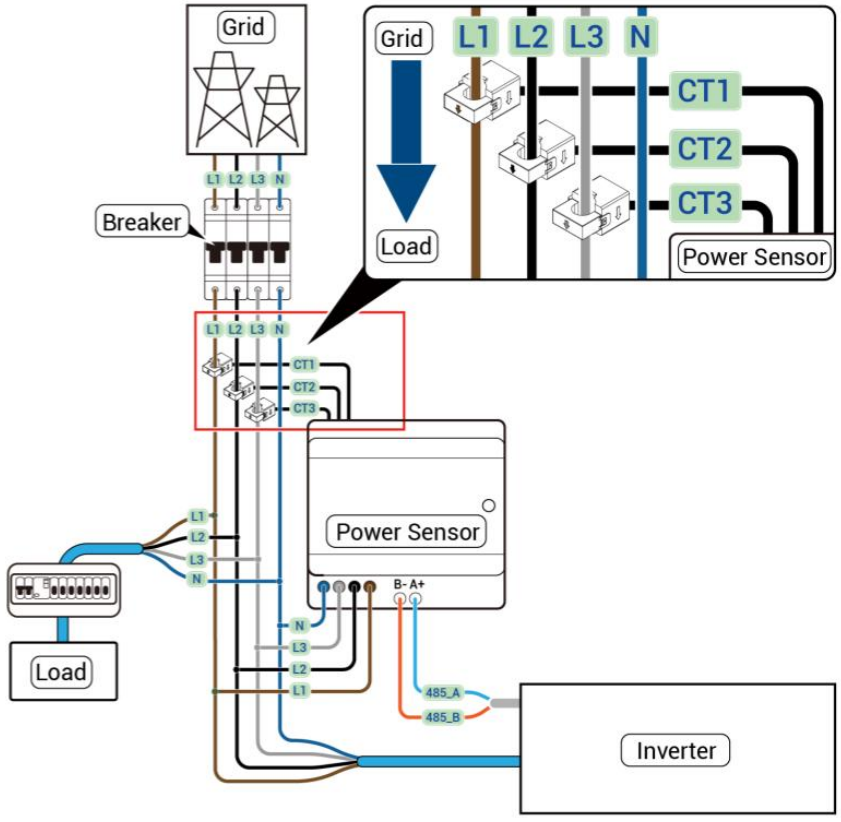
3. power sensor include CTs, which no separate purchase required. If CTs are purchased separatedly, they must meet the following requirements:

| | | |
|---|---|---|
| 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.

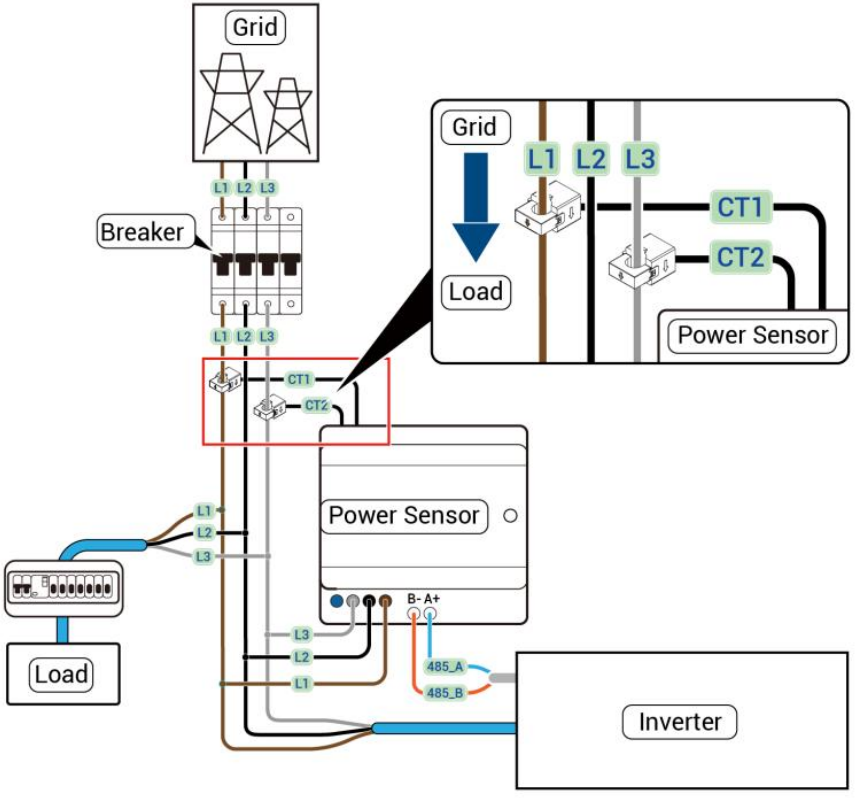
3. Auto-adaptive CT Polarity and Phase Orientation.

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.

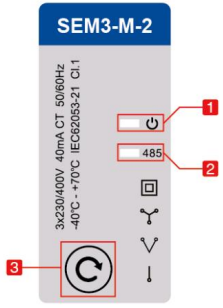
# SamplingVoltage≤277Vac

# (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.<br>2.Flashing: Blinks when a load is connected. |
| | 2.RS485 LED (Green) | 1.Stay on: During the OTA upgrading.<br>2.Flashing: Blinks when the meter is communicating normally. |
| | 3.Key | 1. Press and hold for 3 seconds to enter/exit AP mode;<br>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

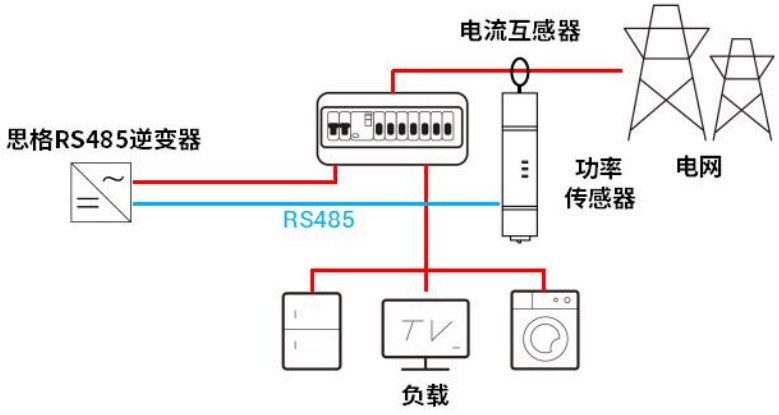



请扫描二维码获取电子版快速安装指南和使用说明书

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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；

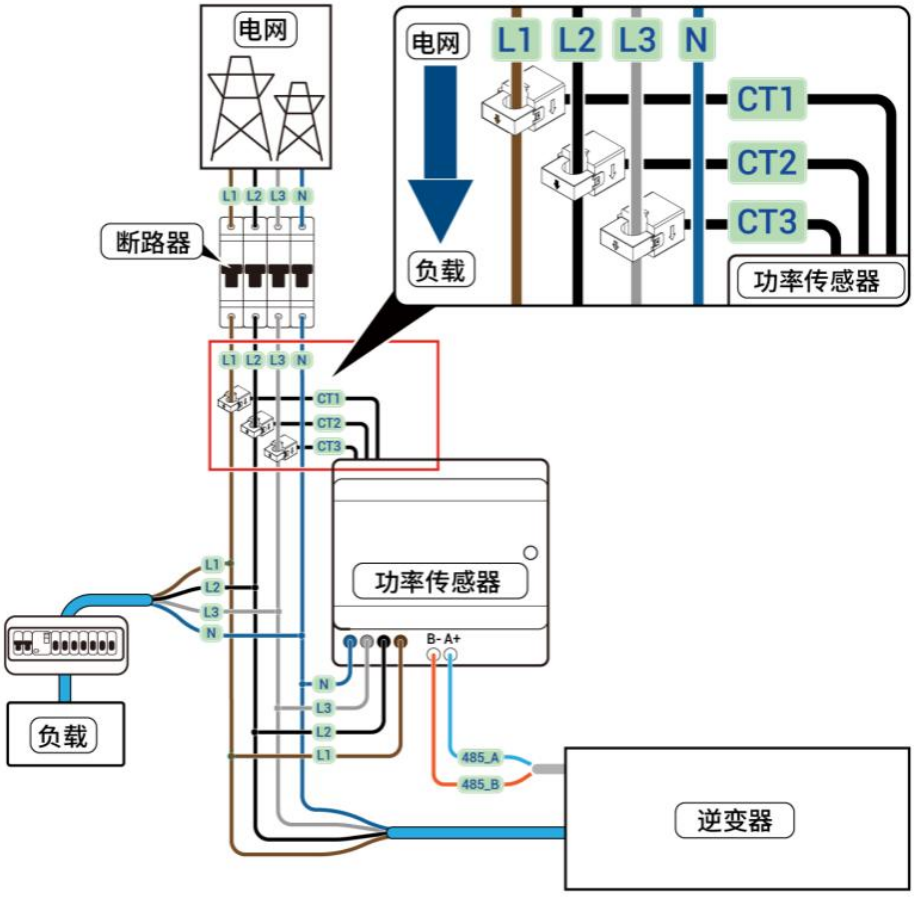
3.功率传感器配备CT，无需购买。若用户自行采购CT,则必须符合以下要求：

| | | |
|---|---|---|
| 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。

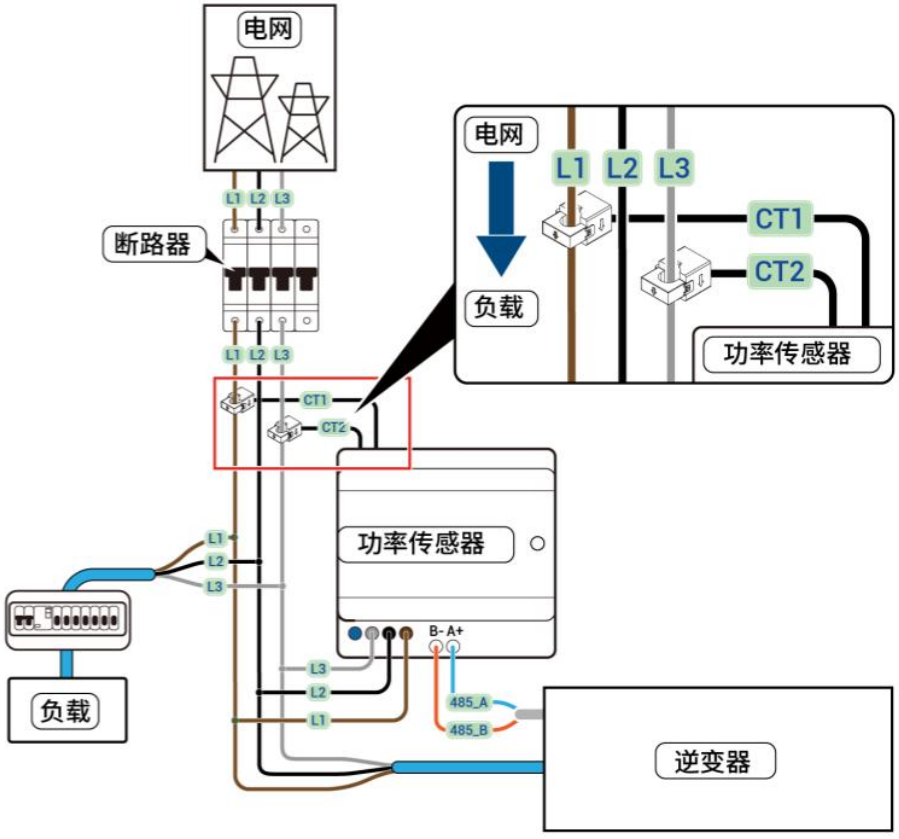
3.CT方向及相位可自适应。

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。

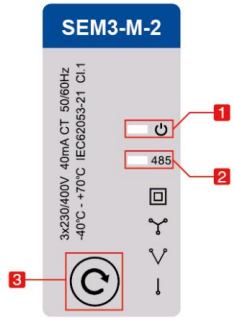
# 三相三线

# (3P3W)

## 接线指导




## 按键与LED定义

| 界面 | 定义 | 描述 |
| --- | --- | --- |
|  | 1.电源指示灯<br>（红色） | 1.常亮：电表在无负载状态下通电时点亮。<br>2.闪烁：接入负载时指示灯持续闪烁。 |
| | 2.RS485通讯指示灯<br>（绿色） | 1.常亮：表示设备正在进行在线升级。<br>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。<br>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。