

# Sigen Power Sensor

- WiFi halow remote communication functionality (with Sigen Sensor Sub1G Kit)
- Efficient and stable data transmission up to 200m (with Sigen Sensor Sub1G Kit)
- 1% high-accuracy power detection for precise control
- LCD real-time info display, easy to operate and check
- Integrate smoothly with Sigenenergy devices, no need for setup
- Top class 100 A direct connection in power sensor with built-in CT
- 100 ms data refresh rate, instantaneous data feed

Sigen Sensor Sub1G Kit



Sigen Power Sensor



# Sigen Power Sensor

| Sigen Sensor <sup>1</sup>    | SP-DH                                | SP-CT120-DH   | TP-DH          | TP-CT120-DH    | Units |
|------------------------------|--------------------------------------|---------------|----------------|----------------|-------|
| Power Supply                 |                                      |               |                |                |       |
| Grid connection type         | 1P2W                                 |               | 3P3W/3P4W      |                |       |
| AC input voltage range       | 176 ~ 276                            |               | 173 ~ 480      |                | Vac   |
| Nominal AC frequency         |                                      |               | 50 / 60        |                | Hz    |
| Max. operating current       | 100                                  | -             | 100            | -              | A     |
| Measurement Accuracy         |                                      |               |                |                |       |
| Voltage accuracy             |                                      |               | 0.5%           |                |       |
| Current accuracy             |                                      |               | 0.5%           |                |       |
| Power accuracy               |                                      |               | 1%             |                |       |
| Frequency accuracy           |                                      |               | 0.2%           |                |       |
| Communication                |                                      |               |                |                |       |
| Interface                    |                                      |               | RS485          |                |       |
| Baud rate                    |                                      |               | 9600           |                | bps   |
| Protocol                     |                                      |               | Modbus RTU     |                |       |
| General Data                 |                                      |               |                |                |       |
| Dimensions (W / H / D)       | 36 / 100 / 63                        | 18 / 118 / 64 | 72 / 100 / 66  | 72 / 94.5 / 65 | mm    |
| Weight                       | 0.20                                 | 0.07          | 0.32           | 0.20           | kg    |
| Storage temperature range    |                                      |               | -40 ~ 70       |                | °C    |
| Operating temperature range  |                                      |               | -25 ~ 60       |                | °C    |
| Relative humidity range      |                                      |               | 0% ~ 90%       |                |       |
| Ingress protection rating    |                                      |               | IP20           |                |       |
| Installation method          |                                      |               | DIN Rail 35 mm |                |       |
| CT Accessory                 |                                      |               |                |                |       |
| Number of CT                 | -                                    | 1             | -              | 3              | pcs   |
| Cable length of CT           | -                                    | 1             | -              | 1              | m     |
| Inner diameter of CT         | -                                    | 16            | -              | 16             | mm    |
| Weight of CT                 | -                                    | 0.09          | -              | 0.09           | kg    |
| Max. operating current of CT | -                                    | 120           | -              | 120            | A     |
| Standard Compliance          |                                      |               |                |                |       |
| Standard                     | EN 61010-1:2010, EN 61010-2-030:2010 |               |                |                |       |

|                                             | Sigen Sensor SubIG Kit               | Units |
|---------------------------------------------|--------------------------------------|-------|
| Working mode                                | AP(master device), STA(slave device) |       |
| Communication method                        | RS485 / wireless communication       |       |
| Protocol                                    | IEEE 802.11ah                        |       |
| Operating voltage                           | 85 ~ 277                             | Vac   |
| Power consumption                           | 2                                    | W     |
| Operating temperature range                 | -25 ~ 55                             | °C    |
| Dimensions (W / H / D)                      | 18 / 118 / 66                        | mm    |
| Wireless frequency                          | 868                                  | MHz   |
| Wireless transmission distance <sup>2</sup> | ≤ 200                                | m     |
| Installation method                         | DIN Rail 35 mm                       |       |

1. For more models refer to the Sigenenergy website.

2. Lab tests have shown a maximum horizontal range of up to 200 metres in open spaces, with shorter communication distances when walls are in the way.

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