SIGENERGY

# 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
- Compact 1P size, plug-in design for easy installation
- Integrate smoothly with Sigenergy devices, no need for setup

Sigen Sensor Sub1G Kit




Sigen Power Sensor



## Sigen Power Sensor

| Sigen Sensor [1] | SP-DH | SP-CT100[2] | TP-DH | TP-CT100[2] | Units |
|---|---|---|---|---|---|
| **Power Supply** | | | | | |
| Grid connection type | 1P2W | | 3P3W/3P4W | | |
| AC input voltage range | 176 ~276 | 100 ~ 276 | 173 ~ 480 | 176 ~ 276 (L~N)<br>277 ~ 304 (L-L) | Vac |
| Nominal AC frequency | 50 / 60 | | | | Hz |
| Max. operating current | 100 | - | 100 | - | A |
| **Measurement Accuracy** | | | | | |
| Voltage accuracy | 0.5% | | | | |
| Current accuracy | 0.5% | 0.5% (4 ~ 100A) | 0.5% | 0.5% (4 ~ 100A) | |
| Power accuracy | 1% | | | | |
| Frequency accuracy | 0.2% | 0.5% | 0.2% | 0.5% | |
| **Communication** | | | | | |
| Interface | RS485 | | | | |
| Baud rate | 9,600 | | | | bps |
| Protocol | Modbus RTU | | | | |
| **General Data** | | | | | |
| Dimensions (W / H / D) | 36 / 100 / 63 | 19 / 94.5 / 68.5<br>or 18 / 100 / 65.5 | 72 / 100 / 66 | 19 / 94.5 / 68.5<br>or 18 / 100 / 65.5 | mm |
| Weight | 0.20 | 0.07 | 0.32 | 0.08 | kg |
| Storage temperature range | -40 ~ 70 | | | | °C |
| Operating temperature range | -25 ~ 65 | | | | °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 | - | 24 / 16 | - | 24 / 16 | mm |
| Weight of CT | - | 0.09 / 0.13 | - | 0.2 / 0.43 | kg |
| Max. operating current of CT | - | 100 | - | 100 | A |
| **Standard Compliance** | | | | | |
| Standard | EN 61010-1:2010, EN 61010-2-030:2010 | | | | |

| | Sigen Sensor Sub1G 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 [3] | ≤ 200 | m |
| Installation method | DIN Rail 35 mm | |

1. For more models refer to the Sigenergy website.
2. Sensors from two different manufacturers may be shipped interchangeably as they are functionally identical. Please refer to the actual products received for confirmation.
3. 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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