

Sigen Power Sensor



- WiFi halow remote communication functionality (with Sigen Sensor SubIG Kit)
- Efficient and stable data transmission up to 200m (with Sigen Sensor SubIG 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 100A direct connection in power sensor with built-in CT
- 100ms data refresh rate, instantaneous data feed

Sigen Power Sensor

| Sigen Sensor ¹ | TP-CT120-DH | TP-CT300-DH | TP-CT600-DH | TPX-CH | Units |
|------------------------------|--------------------------------------|-------------|-----------------|--------|-------|
| Power Supply | | | | | |
| Grid connection type | 3P3W/3P4W | | | | |
| AC input voltage range | 173 ~ 480 | | 100 ~ 480 | | Vac |
| Nominal AC frequency | 50 / 60 | | | | Hz |
| 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) | 72 / 94.5 / 65 | | 72 / 100 / 65.5 | | mm |
| Weight | 0.20 | 0.20 | 0.23 | 0.35 | kg |
| Storage temperature range | -40 ~ 70 | | | | |
| Operating temperature range | -25 ~ 60 | | | | |
| Relative humidity range | 0% ~ 90% | | | | |
| Ingress protection rating | IP20 | | | | |
| Installation method | DIN Rail 35 mm | | | | |
| CT Accessory | | | | | |
| Number of CT | 3 | 3 | 3 | - | pcs |
| Cable length of CT | 1 | 1 | 1 | - | m |
| Inner diameter of CT | 16 | 24 | 36 | - | mm |
| Weight of CT | 0.09 | 0.2 | 0.4 | - | kg |
| Max. operating current of CT | 120 | 300 | 600 | - | 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 | |
| Network protocol | IEEE 802.11ah | |
| Operating voltage | 85 ~ 277 | Vac |
| Maximum power | 2 | W |
| Operating temperature | -25 ~ 55 | °C |
| Dimensions (W/H/D) | 18 / 118 / 66 | mm |
| Wireless frequency | 915 | MHz |
| Wireless transmission distance ² | ≤ 200 | m |
| Way to install | DIN35mm Rail mounting | |

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.