SIGENERGY

Sigen Power Sensor

Sigen Sensor Sub1G Kit

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 Sigenergy devices, no need for setup
- Top class 100A direct connection in power sensor with built-in CT
- 100ms data refresh rate, instantaneous data feed

Enjoy Green Energy

Sigen Power Sensor

Sigen Sensor [1]	TP-CT120-DH	TP-CT300-DH	TP-CT600-DH	TPX-CH [2]	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		9,600			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			°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	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	
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. Sigen Sensor TPX-CH does not included CT, which needs to be purchased separately with the following requirements: Primary rated current In/A ≥ Measuring current, secondary rated current I0/A is 5A or 1A, accuracy ≥ 0.5, and the default CT ratio of the power sensor is 200, need to be reset according to the CT ratio.
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.