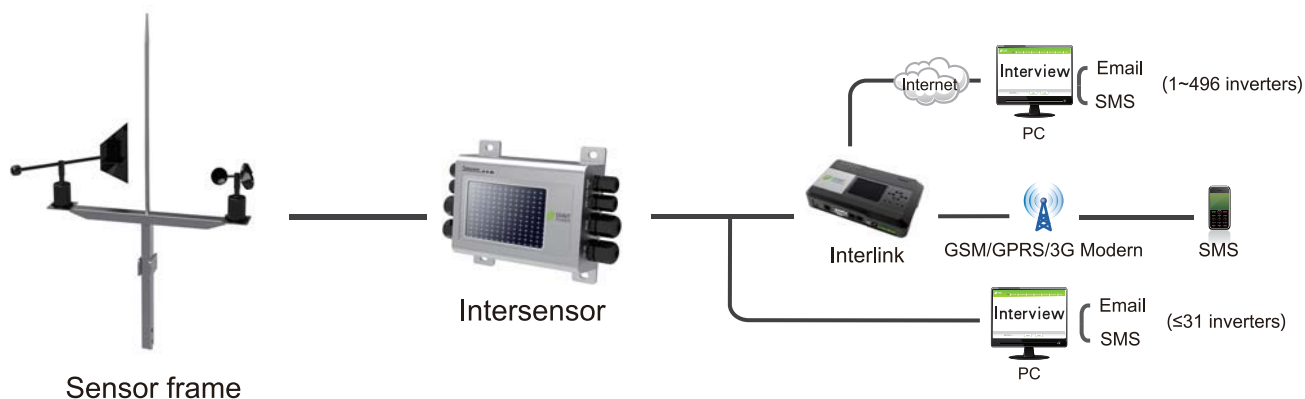


# CPS Intersensor

CPS Intersensor real-time monitors environmental data including irradiance, ambient temperature, PV-module temperature through various sensors. It also communicates with another CPS product - Interlink, which is an integrated data acquisition unit for photovoltaic system.

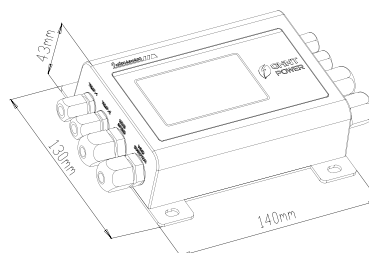
When CPS Intersensor works with CPS Interlink, it provides actual operating data analysis for a running PV inverter systems. With optional sensors, such as ambient temperature sensor, wind speed sensor, and wind direction sensor more accurate measurement and data analysis are achieved.

## ■ System Schematic



## ■ Intersensor

- IP65 compliant for outdoor application
- Comply with RoHS & CE
- Precise acquisition of sensors values
- Data analysis on any PC
- Scientific interface design, easy to install
- Easy to communication via RS485
- Professional industrial design, well-shaped



Dimension (mm)




### Technical Data

#### CPS Intersensor





Communication	
Data Logger Communication	RS485
Power Supply	
Power Supply	Power Adapter
Input Voltage (Adapter)	100 ~ 240Vac, 50/60Hz
Input Voltage (Intersensor)	24Vdc / 14~28Vdc
Power Consumption	1.44W
Environmental Conditions in Operation	
Ambient Temperature	-20°C ~ +50°C
Ingress Protection	IP65
Mechanical Data	
WxDxH(mm)	140×43×130
Weight(g)	600
Accessories	
Irradiation Sensor	●
Module Temperature Sensor	●
Ambient Temperature Sensor	●
Wind Speed Sensor	○
Wind Direction Sensor	○
Sensor Frame	○
Power Adapter	●

● Standard features      ○ Optional features

#### Interface Definition-Intersensor

Intersensor	Interface Definition	
	1. Module Temp.	5. Expansion Port 1
	2. Ambient Temp.	6. Expansion Port 2
	3. Wind Speed	7. Power
	4. Wind Direction	8. RS485

#### Sensor type and data recommended

Sensor Type	Irradiation Sensor	Module Temp. Sensor	Ambient Temp. Sensor	Wind Speed Sensor	Wind Direction Sensor
					
Technical Data					
Material	Polysilicon	PT100		Plastic	Plastic
Working Temp.	-40 ~ +85°C	-20 ~ +110°C		-40 ~ +80°C	-40 ~ +80°C
Measuring Range	0~1500W/m <sup>2</sup>	-20 ~ +100°C	-20 ~ +85°C	0~70m/s	0 ~ 360°
Measuring Accuracy	±5%	±0.1°C		±0.1 m/s	0.1%