External data logger
S–WE01S

By collecting information from inverters including status and performance, SolarMAN external data loggers make the long–term monitoring of PV systems feasible and efficient.
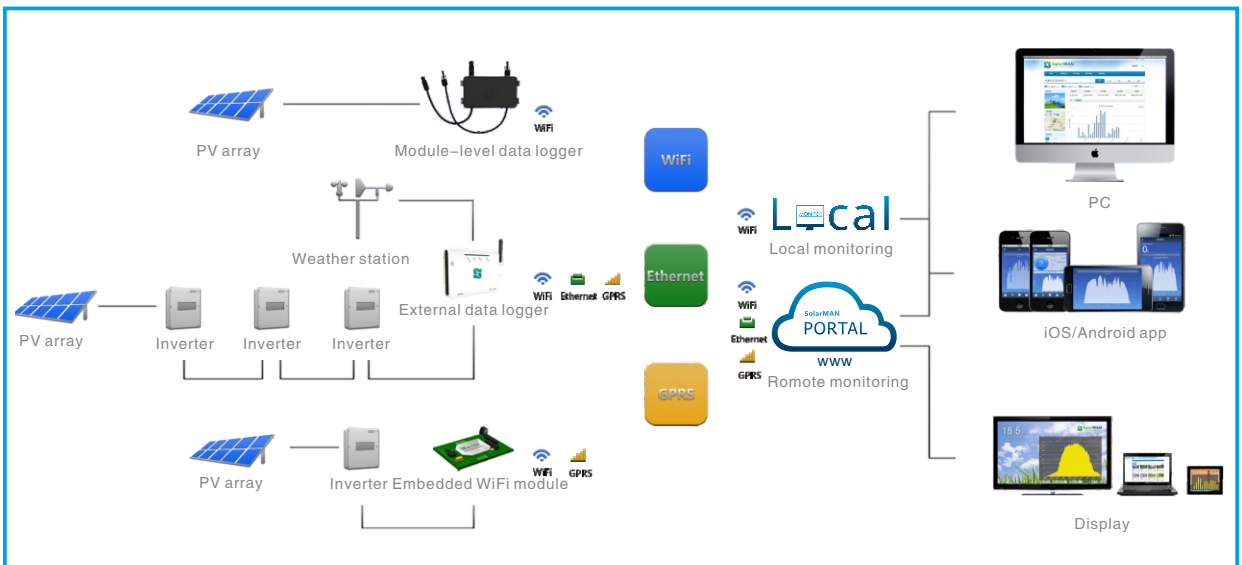
By connecting with single or multiple inverters through RS485/422/232 interface, the data logger can collect information of PV systems from inverters. In addition, SolarMAN Portal can provide powerful data support for users. Data collected by the data logger can be transmitted to the monitoring portal via Ethernet, WiFi, GPRS and Zigbee, etc. Both real–time and historical data can be displayed with transparent graphs. Customized alerts can notify users of any malfunction or defect immediately via SMS and emails.

SolarMAN WiFi Kit is suitable for homes and office buildings where WiFi network is available. A WiFi module is integrated in the data logger, enabling data transmission via WiFi network. No additional wiring or software is required, far simplifying installation and reducing costs for users.Furthermore, an independent web server is integrated in the data logger, which enables users to directly connect to the WiFi Access Point of the data logger and to check the performance and yield of the inverter even without any outer network.

- Compatible with most inverters on the market
- Can be connected to up to 64 inverters
- Devices such as combiner box, electric meter and weather station, etc. can be connected
- Two communication methods available, including Ethernet and WiFi

- Data storage of over 25 years
- Check real–time data of data logger and inverter via embedded Web Server
- Dual mode of local monitoring and remote monitoring

S-WE01S

General		Electrical	
Max. number of inverters	1–64	Input voltage	DC 5V
Inverter communication	RS485/422/232	Static power consumption	<1.6W
Remote communication	WiFi(802.11 b/g/n)/Ethernet	Max. instantaneous power consumption	<2.5W
Max. communication range	<1km		
Communication rate	1200-19200bps(Adjustable)	**Environmental**	
WiFi frequency	2.4GHz	Operating temperature	−10~+65℃
WiFi communication range	400m in outdoor open area without obstruction	Operating humidity	10%~90% Relative humidity, no condensation
WiFi transmitting power	802.11b/g/n:+20dBm/ +18dBm/15dBm(Max)	Storage temperature	−40~+85℃
		Storage humidity	<40%
Data collection intervals	5minutes (Default)/ 1–15minutes (Optional)	Protection class	IP21
		Physical	
Memory	SD Card/EEPROM(Optional)	Dimension(L*W*H)	110mm*80mm*26mm
Preferences setting	Web Server/Serial AT instruction	Weight	108g
Firmware updates	Serial/Wireless	**Other**	
Data access	Serial/WiFi point-to-point /Remote server	Installation method	Wall mounted or flatwise
		Certificates	FCC,CE,RoHS
Status display	4LEDs		

SolarMAN Monitoring System

PV array

Module–level data logger

Weather station

External data logger

PV array

Inverter   Inverter   Inverter

PV array

Inverter Embedded WiFi module

WiFi

Ethernet

GPRS

Local monitoring

Remote monitoring

PC

iOS/Android app

Display