S3-Logger

Solis Data Loggers

S3-Logger is a data acquisition and protocol conversion device applied to PV equipment in PV power plants, which can support access of meters, weather stations and other equipment.

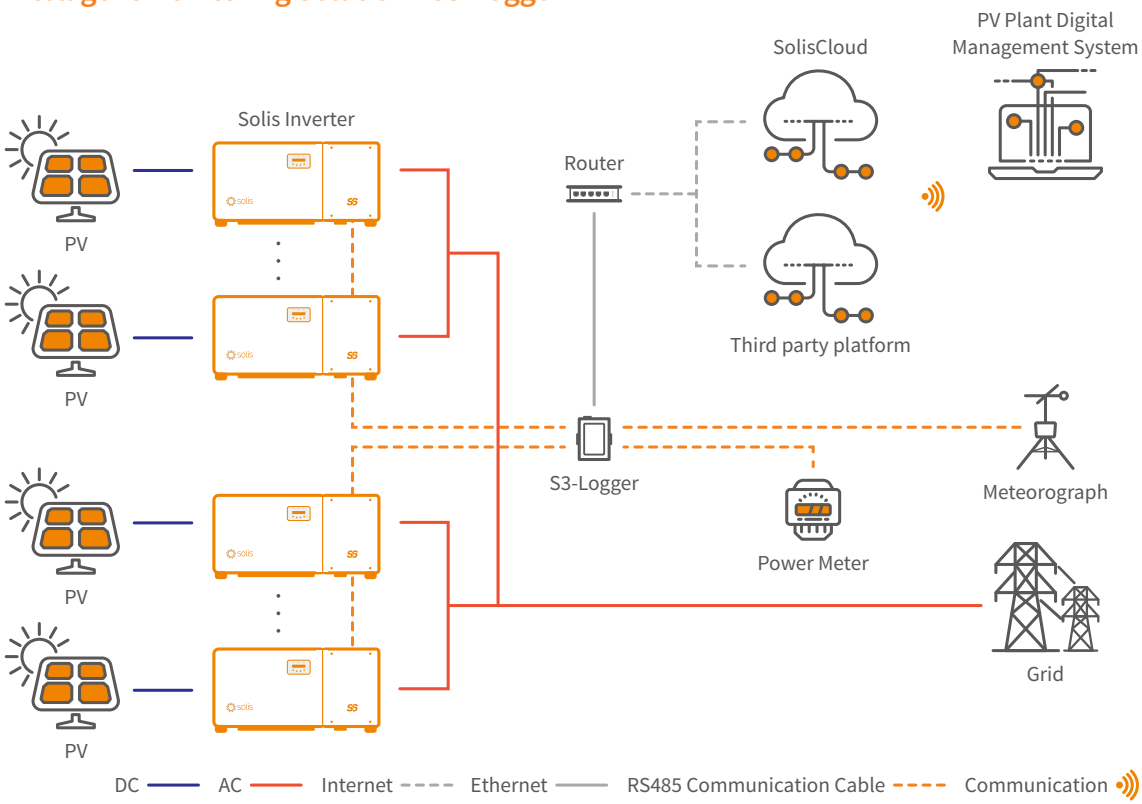
Features:

- Support data connection to local monitoring system
- Support a variety of communication protocols
- One-key address allocation and EPM function
- Inverter remote upgrade
- Support electricity meters, weather stations and other equipment access
- FTP data transfer



S3-Logger

Intelligent Monitoring Solution - S3-Logger



DATASHEET

Models	S3-Logger	S3-Logger-EPM
Communication		
Supported device type	Solis inverter	
Max.manageable device ①	60, Each RS485 PORT≤15	
Status indicator	LED × 2, Power, Run	
RS485	COM × 4, 1200 ~ 115200 bps, communication distance ≤ 1000 m	
Ethernet communication	LAN × 1, 10 / 100 Mbps adaptive, communication distance ≤ 100 m	
Zero power output	/	Yes
Communication Protocol		
RS485	Modbus-RTU, IEC60870-5-103, DLT645	
Ethernet	Modbus-TCP, IEC60870-5-104	
Electrical		
AC power supply	100 ~ 240 V, 50 Hz / 60 Hz	
DC power supply	9 ~ 36 V	
Power consumption	5 W	
Environment		
Operating temperature	-40 ~ +80°C	
Storage temperature	-40 ~ +80°C	
Relative humidity	≤ 85%, Non-condensing	
Max. operating altitude	4000 m	
Mechanical		
Dimensions (L × W × H)	89 × 121 × 27 mm	
Protection degree	IP20	
Installation method	Rail Mounting, Desktop installation	
Others		
Certification	CE, RoHS	

① Inverters must first be hand-in-hand connected by RS485.

Matching Instructions

Type	Manufacturer	Model		Connection method	Special note
Meteorograph	Jinzhou Sunshine	PC-4	PC-4GF	RS485 connects to the P3 port on S3-Logger	1. In addition to the above device models, the newly matched models will continue to be updated; 2. If you need to match new meteorological or meter devices, please provide manuals, specifications, communication protocols and other documents; 3. The match of the new equipment, the development time is about 2 weeks, and the final delivery of the new firmware will be upgraded on site.
	Rainwise	PVmet-75	PVmet-200		
	SevenSolar	3S-IS V7			
	Ingenieurburo	Si-RS485TC-2T			
	FIMER	VSN800			
	Kopya SOLİS-VİSİONSEN MAP	VSS-5	VSS-6		
		VSS-9	VSS-10		
	BARANIDESIGN	Easy MODBUS Starter Kit			
	Hunan Rika Electronic	RK220-01			
Meter	Acrel	DTSD1352	ADL3000-E-B	RS485 connects to the P4 port on S3-Logger	
	Janitza	UMG-96RM	UMG-512		
		UMG604			
	Mikro	RX380			
	MEATROL	EM231			
	Schneider	PM5100	iEM3000		
		iEM3255	EM6400		
	Iskra	MC774			

5. Mechanical Installation

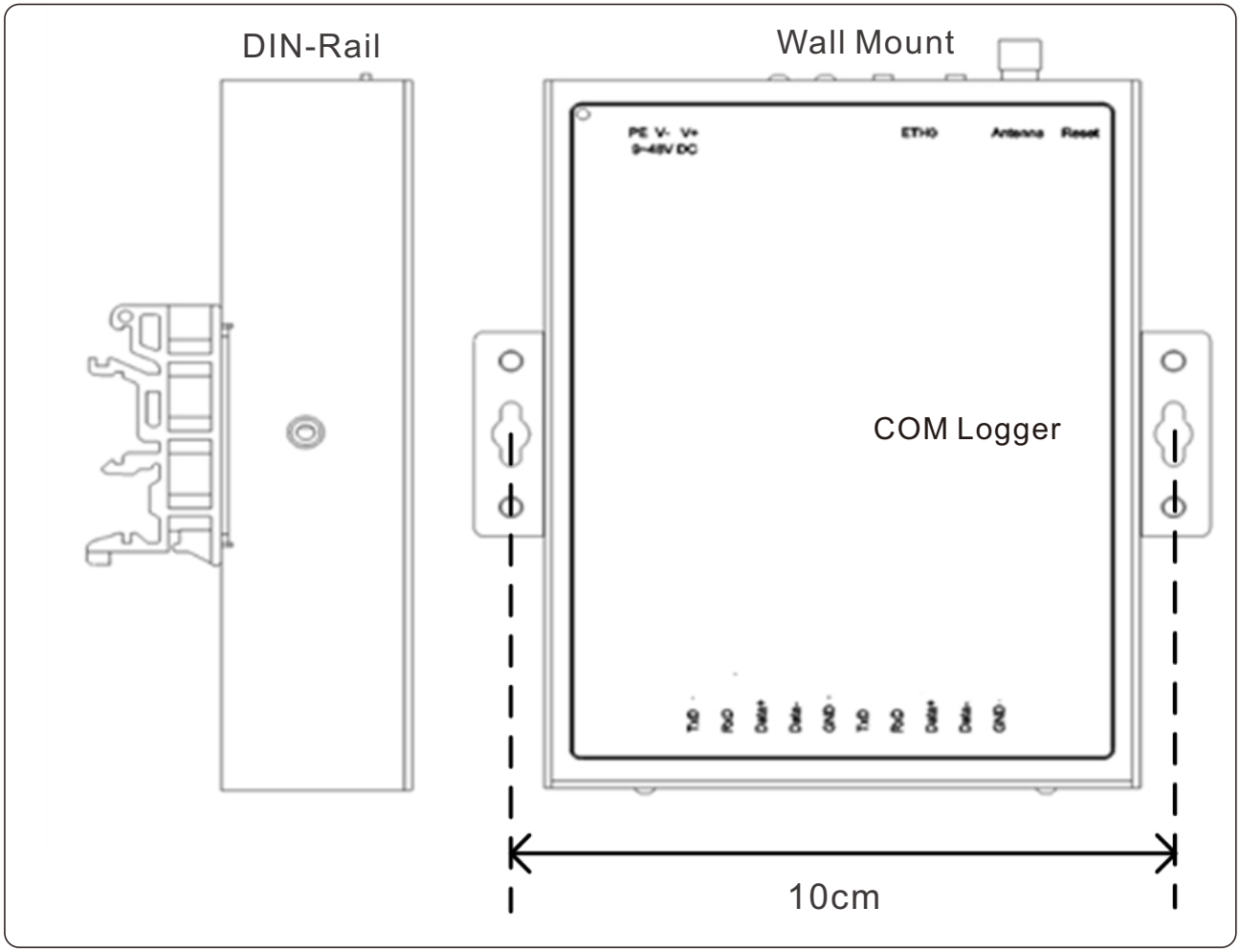
5.1 Equipment Disassembly

Check that the delivery is complete and undamaged according to the packing list inside the package.

NO.	Name	Num	Comment
1	S3-Logger Datalogger	1	
2	Power terminal	1	
3	Serial communication terminal	1	With 2*120 ohm terminating resistors
4	Power Supply	1	
5	DIN-Rail	1	

5.2 Device Installation

It can be installed on the wall, desktop or rail according to the actual situation of the site



Wall and desktop installation