

Product comparison

	Solar-Log ²⁰⁰	Solar-Log ⁵⁰⁰	Solar-Log ¹⁰⁰⁰
Inverter communication / inverters			
Max. number inverters	1	10	100
Max. number inverters	1 x RS485 / RS422	1 x RS485 / RS422	1 x RS485, 1 x RS485 / RS422
Inverter-mixed mode	-	-	•
Maximum unit size	15 kWp	50 kWp	1 MWp
Maximum cable length	max. 1000m ¹⁾	max. 1000m ¹⁾	max. 1000m ¹⁾
Bluetooth ²⁾	optional, internal antenna	optional, internal antenna	optional, internal antenna
Powermanagement ²⁾	-	-	•
System monitoring			
String monitoring (dependant on inverter-type)	•	•	•
Inverter breakdown	•	•	•
Performance monitoring per inverter	-	•	•
Status / error monitoring	•	•	•
Sensor connection (Irradiation / 2 x Temp. / Wind)	-	-	•
Connection of digital electric meters	-	•	•
Email and SMS alert	•	•	•
Local alert (floating contact)	-	-	•
Income forecast	•	•	•
Degradations calculation	•	•	•
Visualization			
Integrated web server	•	•	•
Graph. visualization – local PC	•	•	•
Graph. visualization – USB stick	-	-	•
Graph. visualization – Internet	•	•	•
LED status indicator	•	•	•
Display on device	-	2-line Dot matrix display	Full-graphic display
Operation on device	-	Keypad entry	via touchscreen
Large display RS485 / S ₀ -Impuls	-	•/•	•/•
Interfaces			
Ethernet – Network	•	•	•
USB stick	-	-	•
Analog modem / GPRS (GSM) / DSL	-	-	•
Floating contact (relay)	-	-	•
Alarm contact (theft)	-	-	•
General data			
Power supply / Voltage	220V/12V		
Electricity consumption	3W	3W	3W
Ambient temperature	-10°C to +50°C		
Case	Plastic		
Dimensions (B x T x H) in cm	22,5 x 4 x 28,5		
Installation	Wall mounted		
Protection	IP 20 (only for indoor use)		
Connection to Solar-Log™ Portal	•	•	•
Multiple languages (DE, EN, ES, FR, IT, NL)	•	•	•
Memory, Micro-SD, 2 GB, endless data-recording	•	•	•
Warranty	5 years		

¹⁾ Depending on the inverter and the cable length (Figures may vary depending on the type of device)

²⁾ Other important information on Bluetooth and compatibility can be found on our website

Solar-Log²⁰⁰ delivery includes

- Solar-Log²⁰⁰ basic unit, Art. Nr. 210220
- Art. Nr. 210221 with Bluetooth
- 12 Volt Power Supply
- Connector for all connectors (1 x 6 pol.)
- manual

Made in Germany.

No responsibility is taken for the correctness of this information. Subject to change without notice.

Solar-Log²⁰⁰ accessories

- Cable set ready to go for all supported inverters
- Powerline package, Art. No. 220015
- RS485 wireless package, Art. No. 220058

SMA inverter accessory

- Special PiggyBack RS485, Art. No. 220020 (except TL-20)
- Data-Modul SMA RS485, Art. No. 220053

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Solar-Log™
by Solare Datensysteme GmbH

MAXIMIZED SUNPOWER

Solar-Log²⁰⁰

The Solar-Log²⁰⁰ is a device for monitoring small photovoltaic systems. It supports 1 inverter¹⁾.

It can be operated via a web-browser on the network. A software installation is not required.

The Solar-Log²⁰⁰ works with all major inverters on the market. It connects to the inverter via the RS 485 interface. The data of the inverter can be read, stored and analysed.



Top-Features

- **Signal:** 4 status LEDs
- **Operation/configuration:** via PC
- **Software:** web interface – no software in – stallation required
- **Compatibility:** manufacturer independent – suitable for all current inverters
- **Capacity:** big memory
- **Connections:** RS485 interface for connecting inverters, Fronius / Sunville inverters can be connected without additional interface converters
- **Network:** automatic network identification via DHCP
- **Flexibility:** can also be used without Internet
- **Bluetooth²⁾:** optional Bluetooth module for wireless connection to the new SMA inverter generation

Easy Installation

- **Inverter connection:** inverter direct connection via RS485 interface, combined RS485/RS422 interface or optional Bluetooth module (simultaneous operation of Bluetooth and RS485 possible)
- **Configuration:** via web browser on a PC
- **Software:** no software installation needed
- **Operating Systems:** compatible with Windows, Linux or Mac
- **Network connection:** Ethernet 10/100 MBit standard interface for connecting to a PC, wireless, internet routers or power adapter line

Art. Nr. 250032 EN | SDS 11_2009

Extensive system monitoring

- **Failure monitoring:** optimum monitoring of the inverter
- **Performance comparison:** Comparison of individual strings for multi-string inverters
- **Inverter status:** evaluation of status and error message of the inverter
- **Evaluation:** daily earnings report
- **Messaging service:** either per email or SMS
- **Parameters for each inverter:** current, voltage, power, DC and AC ¹⁾

Graphical visualization

- **Display:** graphical and tabular analysis, daily, monthly, annual and total view (all years), target values for annual yield, yield and input line voltage in the day view possible
- **Output:** PC, PDA via WLAN, Internet

➔ Ansichten im Internet/PC



Daily view:
Yield in relation to the overall performance of the plant



Daily view:
Yield curve of the inverter including 2 x strings and input voltage

Diagnosis

- **Logging:** inverter status and errors
- **Amount of data:** 200 events per inverter
- **Frequency:** 15 seconds
- **Error / Fault Analysis:** fluctuating conditions or disorders of the electricity network provider identified
- **Degradation module:** automatic calculation of the individual years

Internet

- **Connection:** standard Ethernet 10/100 MBit interface
- **Active messaging:** automatic dispatch of the daily yield via email or SMS
- **Data intergration:** online values transferable to any homepage at adjustable intervals (min. 10 min)
- **Internet-portal for dealers:** comprehensive web-portal for management of customer installations, remote access control

Alerts / Alarms

- **Type:** user-configurable alerts and faults
- **Messaging:** email or SMS
- **Internal Display:** status LED on

Large display connector

- **Compatible** with the multimedia large display „solarfox“ from www.solar-fox.de

Data security

- **Export:** save to hard-disk, save automatically to homepage
- **Data format:** CSV (simple text file, separated by semicolons)
- **Import of older data yields:** either importing a CSV file as „existing performance data“ or manually adding as daily earnings
- **Updates:** free at www.solar-log.com, updated automatically or manually
- **Amount of memory:** 20 years of endless data recording at 5-minute intervals
- **Storage hardware:** condenser (GoldCap) with 50 days safety buffer

Supported inverters	
SMA	Mitsubishi
Sunways	Solutronic
Diehl AKO	KACO
Refu	Fronius
Sunville/Phoenixtec	Danfoss
Sputnik/SolarMax	Mastervolt
Kostal	Schüco
Power-One	Ingeteam
- Others in the pipeline	

Cable concealment

It's possible to conceal all cables inside the unit casing so that no cables are visible at all. This of course is a great advantage especially in living areas.

