

## Product comparison

Solar-Log 250

Solar-Log 300

Solar-Log 1200

Solar-Log 2000

Basis functions

Standard	●	●	●	●
PM+ <sup>2)</sup>	-	●	●	●
PM+ / GPRS <sup>2)</sup>	-	●	●	● <sup>4)</sup>
GPRS <sup>2)</sup>	-	●	●	●
Solar-Log™ Meter (CT)	-	●	●	-
Central inverter SCB and SMB	-	-	-	●
Inverter connection options	Ethernet 1 x RS485/RS422	Ethernet 1xRS485/RS422 (1 inverter manufacturer per bus, max. total of 100 INV)	Ethernet, 1xRS485, 1xRS485/RS422 (1 inverter manufacturer per bus, max. total of 100 INV / device)	Ethernet, 1xRS485, 2xRS485/RS422, 1xCAN (1 inverter manufacturer per bus, max. total of 100 INV / device)
Max. plant size	-	15 kWp	100 kWp	2000 kWp
Max. cable length	-	Max. 1000 m <sup>1)</sup>	Max. 1000 m <sup>1)</sup>	Max. 1000 m <sup>1)</sup>

Plant monitoring

String monitoring / MPP Tracker (depending on type of inverter)	●	●	●	●
Monitoring of central inverters	-	-	-	●
SCB and SMB connections	-	-	-	●
Inverter failure, status of fault and power monitoring	●	●	●	●
Sensor system connection (irradiation / temp. / wind)	● <sup>3)</sup>	● <sup>3)</sup>	● <sup>3)</sup>	● <sup>3)</sup>
E-mail and text message (SMS) alert	●	●	●	●
Alarm (local)	-	-	-	●
Yield forecast	●	●	●	●
Self-produced energy consumption: Digital electricity meter	●	●	●	●
Self-produced energy consumption: Managing external appliances	-	●	●	●

Feed-in management

Reduction to X percent (with and without the calculation of self-consumption)	-	●	●	●
Limit of X percent (with adjustable fixed reduction)	●	●	●	●
Remote controlled active and reactive power reductions (with the calculation of self-consumption)	-	PM+	PM+	PM+
Feed-in management with response signals	-	-	-	PM+, Utility Meter, PM-Package or Modbus TCP PM

## Product comparison

	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 2000	
Integrated web servers	●	●	●	●	Visualization
Graphic visualization – PC local and Internet	●	●	●	●	
LCD-Status-Display	●	●	●	●	
Display on the unit	-	-	4.3" TFT color display	4.3" TFT color display	
Controls on the unit	-	-	Via touch display	Via touch display	
Large external display RS485 / S <sub>0</sub> pulse	-	●	●	●	
HTTP data transfers to Solar-Log™ WEB for low data volumes	●	●	●	●	
FTP data transfer to third-party portals <sup>5)</sup>	-	●	●	●	
Easy Installation	●	●	●	-	Installation
Network detection / DHCP	●	●	●	●	
Name resolution http://solar-log	●	●	●	●	
Ethernet network	●	●	●	●	Interfaces
USB flash drive	●	●	●	●	
Potential-free contact (relay)	-	-	●	●	
Alarm contact (anti-theft)	-	-	-	●	
Power supply voltage / device voltage /current consumption	115 V – 230 V / 12 V / 3 W				General data
Ambient temperature	-10 °C to +50 °C				
Housing/dimensions (w x h x d) in cm / Mounting /Protection level	Plastic / 22.5 x 28.5 x 4 / Wall-mounted / IP 20 (indoor use only)				
Connection to Solar-Log™ WEB “Commercial Edition”	●	●	●	●	
Weight <sup>6)</sup>	710 g	710 g	800 g	810 g	
Multi-lingual (DE, EN, ES, FR, IT, NL, DK, TR, JP, CN)	English <sup>7)</sup>	●	●	●	
Memory, Micro-SD, 2 GB, endless data logging	●	●	●	●	
Warranty	2 years		2 year manufacturer's warranty plus a 3 year extended warrenty after registering at <a href="http://www.solar-log.com">www.solar-log.com</a>		

1) Depending on the inverter used and the cable type (details can also vary from one type of device to another).

2) Other important information about compatibility, Powermanagement and self-consumption and SCB and SMB inverters can be found on our website [www.solar-log.com](http://www.solar-log.com).

3) Using every inverter on the same bus is not always possible; please see the inverter database at [www.solar-log.com](http://www.solar-log.com).

4) Solar-Log 2000 PM+ / GPRS Communication interface 1 x RS485, 1 x RS485/RS422 (1 inv. manufacturer per bus).

5) It is possible to make a data transfer to third-party portals once per day via FTP - an additional license is required for more frequent transfers.

6) Weight of the standard version; deviations possible depending on the particular model.

7) Available: DE, ES, FR, IT, NL, DK

	Accessories	Article number	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
Smart Plugs	AllNet Standard 3.5 kW, measuring function	255879	-	●	●	●
	AllNet WLAN 1.8 kW, without measuring function	255616	-	●	●	●
	Gude 1100 / 1101, measuring function	www.gude.info	-	●	●	●
	Gude 1102 / 1103, without measuring function	www.gude.info	-	●	●	●
	Belkin WeMo Insight Switch, 16 A <sup>3)</sup> WLAN, measuring function	255841	-	●	●	●
Relays	Solar-Log™ Smart Relay Station, 3 x 16 A (3 x 3.5 kW)	255755	-			
	Smart Relay Box 8 Relays	255656	-	● <sup>4)</sup>	●	●
	Gude Expert Net Control 2301 - 4x Relays Top-hat-rail mounting 230 V	www.gude.info	-	●	●	●
	Gude Export Net Control 2104 - 1 Relay Output	www.gude.info	-	●	●	●
	Gude Export Net Control 2110 - 4 relay outputs, controllable individually by Solar-Log™	www.gude.info	-	●	●	●
Meters	EGO Smart Heater	255840	●	●	●	●
	Solar-Log™ PRO380-Mod	255913	●	● <sub>S<sub>0</sub></sub> <sup>4)</sup>	●	●
	Iskra power meter, 1-phase - S <sub>0</sub>	255346	●	●	●	●
	Iskra power meter, 3-phase - S <sub>0</sub>	255347	●	●	●	●
	Solar-Log™ Utility Meter	255385	-	● <sup>5)</sup>	● <sup>5)</sup>	●
CTs	16 A sealed, 100 A sealed, 100 A open	See page 59	-	● (Meter)	● (Meter)	-
WiFi	Wireless Kit TP-Link	256012	●	●	●	●
	Wireless Kit Netgear	256013	●	●	●	●
Sensors	Sensor Box Professional Plus <sup>1)</sup>	220060	●	●	●	●
	Sensor Box Professional <sup>1)</sup>	255896	●	●	●	●
	Sensor Basic <sup>1)</sup>	255895	●	●	●	-
	Lufft UMB WS503	www.lufft.de	-	●	●	●
Misc.	PowerLine Package	255886	●	●	●	●
	Overvoltage Protection		255602	255602	255601	255601
	Special PiggyBack for SMA	220020	●	●	●	●
	Outdoor case	See page 89	●	●	●	●

1) Can be connected to the same RS485 bus with some inverters; 2) separate RS485 interface always required - not with inverters on one port; 3) Independent of country version; 4) note that only one RS485 port is available; 5) only power meter, no reactive power, cos phi, etc.

## Interface

### Solar-Log 250

### Solar-Log 300

### Solar-Log 1200

### Solar-Log 2000

	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
RS485/RS422 - interface usage	RS485/RS422 - combined interface usage	RS485 - interface, RS485/RS422 - combined interface usage	RS485 - interface, RS485/RS422 - combined interface usage	RS485 A - interface, RS485/RS422 B, RS485/RS422 C* - combined interface usage
Inverter connection (Fronius / Sunville can be connected on an RS422 interface without an additional interface converter)				
	Connection of a Sensor Basic to record environmental data (irradiance and module temperature sensor)	Connection of a Sensor Box Professional Plus to record environmental data (irradiance, module and ambient temperature, wind sensor)		
		Sensor Box Professional		
		Meter connection, numerous options		
RS485 - interface usage	-	Connection of the display panels produced by Schneider Displaytechnik, Rico or HvG		
	-	Smart Relay Box connection for the management of consumption data		
	-			Connecting the Utility Meter and I/O Box for PM remote control technology
CAN-bus	-	-	-	For the connection of Voltwerk inverters and other inverters with a CAN interface
S <sub>0</sub> pulse input - for optional recording and calculation of self-produced power consumption				
2x S <sub>0</sub> -In / 1x S <sub>0</sub> -Out	-	Second input to connect an additional power meter		
	-	S <sub>0</sub> pulse output to connect large external displays, pulse factor can be set to any value		
Relay	-	-		For external switch control, e.g. heat pumps
Alarm	-	-	-	Connection for anti-theft protection via contact loop for external alarms via potential-free contact
USB connection	-			To access data / Import firmware updates at plants
PM+	-			For connection of a Ripple Control Receiver to regulate the plant
	-			Fulfills the EEG 2012 requirements (Germany)
Solar-Log™ Meter (optional)	-			Current measurements via transformers (extra accessory) up to 2 x 3 phases or 6 single phases
Network				Connection to the internet (Ethernet, fixed IP address or DHCP)
GPRS (optional)	-			Antenna connection and SIM card slot for Solar-Log™ with integrated GPRS

Inverter interfaces

Additional function interfaces

Network

\* not with GPRS models