

Technical Data		Solar-Log 50
Basic Functions	Inverter: Monitoring and power reduction to x %	Ethernet RS485 (4 pole) or RS422 ¹⁾ (6 pole)
	Battery storage: Monitoring	Ethernet RS485 (4 pole) or RS422 ¹⁾ (6 pole)
	Meter	RS485 (2 pole)
	Maximum number of components	5
	Maximum plant size	15 kWp
	Recommended cable length ²⁾	30 m
Expandable Licenses ³⁾	Solar-Log 50 Opening License for the expansion up to 10 components	from 5 to maximum 10
	Solar-Log 50 Opening License for the plant expansion up to 30 kWp	from 15 kWp to maximum 30 kWp
Interfaces	RS485/RS422	2 x RS485 or 1 x RS422
	Ethernet	●
	USB connection	●
General Data	Power supply voltage and device voltage	24 V
	Connection to Solar-Log WEB Enerest™ (Internet connection required)	●
	Multi-lingual (DE, EN, ES, FR, IT, CN)	●
	Dimensions (w x h x d) in mm	53.6 x 89.7 x 35.5
	Warranty	2 years
1) No RS485 meter connectable. 2) Depending on the inverter used and the cable type (details can also vary from one type of device to another). 3) With additional costs.		

Solar-Log WEB Enerest™ in detail see product comparison page 22



No power supply included

Components	Article number	Solar-Log 50	
Solar-Log™ PRO380-Mod	255913	●	Meters
Solar-Log™ PRO380-Mod-CT	256059	●	
Wireless Kit TP-Link	256012	●	WIFI
Wireless Kit Netgear	256013	●	
PowerLine Paket	256133	●	Misc.
Special PiggyBack for SMA	220020	●	

Article Number	
Solar-Log 50	256200
Power supply	256226
Mounting rail power supply	256227
Solar-Log 50 Opening License from 15 up to 30 kWp	256206
Solar-Log 50 Opening License from 5 up to 10 components	256205

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- [Installation on DIN rail mounting](#)
- [Configuration Assistant](#)
- [Setup in the Solar-Log WEB Enerest™](#)
- [Buy and install license](#)

Basic functions

Product Comparison	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 1900	Solar-Log 2000
Standard	●	●	●	●	●
PM+ ²⁾	-	●	●	●	●
Central inverter SCB	-	-	-	●	●
Inverter connection options	Ethernet 1 x RS485/RS422	Ethernet 1 x RS485/RS422 (1 inverter manu- facturer per bus)	Ethernet, 1 x RS485, 1 x RS485/RS422 (1 inverter manu- facturer per bus)	Ethernet, 1 x RS485, 2 x RS485/RS422, 1 x CAN (1 inverter manufacturer per bus, max. total of 100 INV / device)	Ethernet, 1 x RS485, 2 x RS485/RS422, 1 x CAN (1 inverter manufacturer per bus, max. total of 100 INV / device)
Maximum plant size	-	15 kWp	100 kWp	2000 kWp	2000 kWp
Maximum cable length	-	Maximum 1000 m ¹⁾	Maximum 1000 m ¹⁾	Maximum 1000 m ¹⁾	Maximum 1000 m ¹⁾
Opening licence	-	30 kWp	250 kWp	-	-

Plant Monitoring

MPP-Tracker monitoring / Number of MPP trackers depends on the inverter type	●	●	●	●	●
Monitoring of central inverters	-	-	-	●	●
SCB connection	-	-	-	●	●
Inverter failure, status of fault and power monitoring	●	●	●	●	●
Sensor system connection (irradiation / temp. / wind)	● ³⁾	● ³⁾	● ³⁾	● ³⁾	● ³⁾
E-mail and text mes- sage (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+	PM+
Feed-in management with response signals	-	-	-	PM+, Utility Meter, PM Package or Modbus TCP PM	PM+, Utility Meter, PM Package or Modbus TCP PM

Product Comparison	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 1900	Solar-Log 2000
Integrated web servers	●	●	●	●	●
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 ₀ pulse	-	●	●	●	●
HTTP data transfers to Solar-Log WEB Enerest™ for low data volumes	●	●	●	●	●
FTP data transfer to third-party portals ⁴⁾	-	●	●	●	●
Easy Installation	●	●	●	-	-
Network detection / DHCP	●	●	●	●	●
Name resolution http://solar-log	●	●	●	●	●
Ethernet network	●	●	●	●	●
USB connection	●	●	●	●	●
Potential-free contact (relay)	-	-	●	●	●
Alarm contact (anti-theft)	-	-	-	●	●
Power supply voltage / device voltage / current consumption	115 V – 230 V / 12 V / 3 W				
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 Enerest™ XL	●	●	●	●	●
Weight ⁵⁾	710 g	710 g	800 g	710 g	810 g
Multi-lingual (DE, EN, ES, FR, IT, CN)	●	●	●	●	●
Memory, Micro-SD, 2 GB, data logging	●	●	●	●	●
Warranty	2 years	2 years	2 years	2 years	2 years

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 inverters can be found on our website www.solar-log.com.
3) Using every inverter on the same bus is not always possible; please see the component database at www.solar-log.com.
4) 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.
5) Weight of the standard version; deviations possible depending on the particular model.

Visualization

Installation

Interfaces

General data

	Components	Article number	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 1900	Solar-Log 2000
Smart Plugs	AllNet Standard 3.5 kW, measuring function	www.allnet.de	-	●	●	●	●
	Gude 1100 / 1101, measuring function	www.gude.info	-	●	●	●	●
	Gude 1102 / 1103, without measuring function	www.gude.info	-	●	●	●	●
	Belkin WeMo Insight Switch, 16 A ³⁾ WLAN, measuring function	255841	-	●	●	●	●
Relays	Solar-Log™ Smart Relay Station, 3 x 16 A (3 x 3.5 kW)	255755	-	●	●	●	●
	Solar-Log™ Smart Relay Box - 8 Relays	255656	-	● ⁴⁾	●	●	●
	Gude Expert Net Control 2301 - 4 x 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	-	●	●	●	●
	EGO Smart Heater Ethernet	256014	-	●	●	●	●
Meters	Solar-Log™ PRO380-Mod	255913	● ⁴⁾	● S ₀ ⁴⁾	●	●	●
	Solar-Log™ PRO380-Mod-CT	256059	● ⁴⁾	● S ₀ ⁴⁾	●	●	●
	Iskra power meter, 1-phase - S ₀	255346	●	●	●	●	●
	Solar-Log™ Utility Meter	255385	-	● ⁵⁾	● ⁵⁾	●	●
WiFi	Wireless Kit TP-Link	256012	●	●	●	●	●
	Wireless Kit Netgear	256013	●	●	●	●	●
Sensors	Sensor Box Professional Plus ¹⁾	220060	●	●	●	●	●
	Sensor Box Professional ¹⁾	255896	●	●	●	●	●
	Lufft UMB WS503	www.lufft.de	-	●	●	●	●
Misc.	PowerLine Package	256133	●	●	●	●	●
	Overvoltage Protection	255602	255602	255602	255601	255601	255601
	Special PiggyBack for SMA	220020	●	●	●	●	●
	Outdoor case	See page 92	●	●	●	●	●

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 1900	Solar-Log 2000
RS485/RS422 – interface usage	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 Box Professional Plus to record environmental data (irradiance, module and ambient temperature, wind sensor)		
	Sensor Box Professional				
RS485 – interface usage	Meter connection, numerous options				
	-	Connection of the display panels produced by Schneider Displaytechnik, Rico or HvG			
	-	Solar-Log™ 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 ₀ pulse input – for optional recording and calculation of self-produced power consumption				
2 x S ₀ -In / 1 x S ₀ -Out	-	Second input to connect an additional power meter			
	-	S ₀ pulse output to connect large external displays, pulse factor can be set to any value			
Relay	-	-	For external switch control, e.g. heat pump		
Alarm	-	-	-	Connection for anti-theft protection via contact loop for external alarms via potential-free contact	
USB connection	-	To access data / Import firmware updates			
	-	For connection of a Ripple Control Receiver to regulate the plant			
PM+	-	Fulfills the EEG 2017 requirements (Germany)			
Solar-Log™ Meter**	-	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)				

* Not with GPRS models
** No longer included in the current product range