Solar-Log™

Product comparison

Product comparison	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
Basis functions				
Standard	●	●	●	●
PM+ [2)]	-	●	●	●
PM+ / WiFi [2)]	-	●	●	-
PM+ / GPRS [2)]	-	●	●	● [4)]
WiFi (Wireless Lan) [2)]	-	●	●	-
GPRS [2)]	-	●	●	●
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 inveter 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 [1)]	Max. 1000 m [1)]	Max. 1000 m [1)]
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)	●	● [3)]	● [3)]	● [3)]
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

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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$_0$ pulse	-	●	●	●	
HTTP data transfers to Solar-Log™ WEB for low data volumes	●	●	●	●	
FTP data transfer to third-party portals [5]	-	●	●	●	
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 [6]	710 g	710 g	800 g	810 g	
Multi-lingual (DE, EN, ES, FR, IT, NL, DK, TR, JP, CN)	English [7]	●	●	●	
Memory, Micro-SD, 2 GB, endless data logging	●	●	●	●	
Warranty	2 year manufacturer's warranty plus a 3 year extended warrenty after registering at www.solar-log.com				

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
3) Using every inverter on the same bus is not always possible; please see the inverter database 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 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[3] WLAN, measuring function	255841	●	●	●
Relays	Solar-Log™ Smart Relay Station, 1 x 16 A (1 x 3.5 kW)	255754	●	●	●
	Solar-Log™ Smart Relay Station, 3 x 16 A (3 x 3.5 kW)	255755			
	Smart Relay Box 8 Relays	255656	●[4]	●	●
	Gude Expert Net Control 2301 - 4x Relays Top-hat-rail mounting 230 V	www.gude.info	●	●	●
Meters	EGO Smart Heater	255840	●	●	●
	Solar-Log™ Pro1 Modbus top-hat-rail single-phase A.C. current meter	255914	● S_0 [4]	●	●
	Solar-Log™ Pro 380 Mod three-phase A.C. current meter	255913	● S_0 [4]	●	●
	Iskra power meter, 1-phase – S_0	255346	●	●	●
	Iskra power meter, 3-phase – S_0	255347	●	●	●
	Solar-Log™ Utility Meter	255385	●[5]	●[5]	●
	Elkor WattsOn (USA)	-	●	●	●
	SMA Meter Connection Box	-	●	●	●
CTs	16 A sealed, 100 A sealed, 100 A open	See page 59	● (Meter)	● (Meter)	●
Sensors	Sensor Box Professinal Plus[1]	220060	●	●	●
	Sensor Box Professinal[1]	255896	●	●	●
	Sensor Basic[1]	255895	●	●	-
	Lufft UMB WS503	www.lufft.de	●	●	●
Wireless	RS485 Wireless Package	220058	●	●	●
	Directional radio antenna for the wireless package (std. 2.4 GHz antenna)	-	●	●	●
	GPRS external antenna	255329	● Solar-Log™ GPRS Version	● Solar-Log™ GPRS Version	● Solar-Log™ GPRS Version
Large plants	PM-Packages	grid company independent	-	-	●
	SCB / SMB	-	-	-	●
Misc.	PowerLine Package	255886	●	●	●
	Overvoltage Protection		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	
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 interfaces
RS485 – 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				
	-	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	
2x S_0-In / 1x S_0-Out	-	S_0 pulse input – for optional recording and calculation of self-produced power consumption			Additional function interfaces
	-	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 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)				Network
GPRS (optional)	-	Antenna connection and SIM card slot for Solar-Log™ with integrated GPRS			

* not with GPRS models