Solar-Log™

Product comparison	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
Basis functions			
PM+ [2]	●	●	●
PM+ / WiFi [2]	●	●	-
PM+ / GPRS [2]	●	●	●
Bluetooth (BT) [2]	●	●	-
WiFi (Wireless Lan) [2]	●	●	-
Bluetooth (BT) / WiFi [2]	●	●	-
GPRS [2]	●	●	●
Solar-Log™ Meter (CT)	●	●	-
Central inverter SCB and SMB	-	-	●
Communication interface	1 x RS485 / RS422 (1 inv. manufacturer per bus)	1 x RS485 1 x RS485 / RS422 (1 inv. manufacturer per bus)	1 x RS485, 2x RS485 / RS422, 1 x CAN (1 inv. manufacturer per bus)
Max. plant size	15 kWp / 1 inverter manufacturer	100 kWp max. 2 inverter manufacturer	2000 kWp up to 3 inverter manufacturer
Max. cable length	max. 1000 m [1]	max. 1000 m [1]	max. 1000 m [1]
Plant monitoring			
String monitoring (depending on type of inverter / on tracking level)	●	●	●
Inverter failure, status of fault and power monitoring	●	●	●
Connection of sensors (irradiation / temp. / wind)	● [3]	● [3]	● [3]
E-mail and SMS alarm	●	●	●
Local alarm	-	-	●
Yield forecast and degradation calculation	●	●	●
EEG "own power consumption": Digital current meters	●	●	●
EEG "own power consumption": Control of ext. consumers	●	●	●
Visualisation			
Integrated web servers	●	●	●
Graphic visualization – PC local and internet	●	●	●
LCD-Status-Display	●	●	●
Display on device	-	4.3" TFT color display	4.3" TFT color display
Operation on device	-	via touch display	via touch display
Large display RS485 / S_0 impulse	●	●	●

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Interfaces			
Ethernet network	●	●	●
USB flash drive	●	●	●
Potential-free contact (relay)	-	●	●
Alarm contact (anti-theft)	-	-	●
General data			
Network voltage/device voltage/current consumption	115 V – 230 V / 12 V / 3 W		
Ambient temperature	-10 °C to +50 °C		
Housing/dimensions (W x D x H) in cm/ Assembly/Protection level	Plastic / 22,5 x 4 x 28,5 / wall-mounted / IP 20 (only for interior use)		
Connection to Solar-Log™ WEB "Commercial Edition"	●	●	●
Multi-lingual (DE, EN, ES, FR, IT, NL, DK)	●	●	●
Memory, Micro-SD, 2 GB, Endless-loop data recording	●	●	●
Warranty	5 years		

1) Depending on the inverter used and the cable length (details can also vary from one type of device to another).
2) More important information about Bluetooth and compatibility, Powermanagement, „own power" consumption, SCB and SMB central 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

Accessories	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
Accessories	Fully packaged cable kits for most supported inverters		
	Digital Meter		
	PowerLine Package		
	RS485 Wireless Package		
	Sensors		
	Overvoltage protection		
Accessories for SMA inverters	Special PiggyBack RS485 (except TL-20 series)		
	Data Modul SMA RS485		

Top Features	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
LCD-Status-Display	Status display for installation and operations		
Easy Installation	Connection is usually possible without PC and installation expertise.		
	The inverter search and the internet registration is enabled immediately and is started automatically.	The inverter search and the internet registration is enabled immediately and is started automatically.	-
Network recognition	Automatic search for the DHCP server and assignment of a valid IP address on the local network.		
Ability to be reached on the local network	Registration is done with its name. The IP address of the Solar-Log™ no longer needs to be known, unless there are several Solar-Logs on the network. The Solar-Log™ can be accessed directly from a web browser with this address: http://solar-log.		
Additional functions	Monitoring, optimization and managing of self-consumption with a fixed regulation of active power including the calculation of self-consumption.		
	Evaluation of Sensor Box Commercial data		
	-	-	Monitoring of central inverters
Solar-Log™ Meter	Monitoring, feed-in management and power meter.		-
Support for the Solar-Log™ SCB/SMB	-	-	Individual string monitoring
Solar-Log™ PM+ functionality	Remote controlled active power reduction and reactive power adjustments		Monitoring large plants with the support of the Solar-Log 2000 or Solar-Log 2000 PM+ with active power reduction and reactive power control along with response signals.

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Standard	255574	255591	255592
BT	255577	255585	-
WiFi	255576	255584	-
BT / WiFi	255578	255586	-
PM+	255579	255587	255594
PM+ / WiFi	255580	255588	-
GPRS	255575	255583	255593
PM+ / GPRS	255581	255589	255595
Solar-Log™ Meter (CT)	255582	255590	-

Interface	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
Inverter interfaces			
RS485/RS422 – interface usage	RS485 / RS422 – multi-purpose interface	RS485 – interface, RS485 / RS422 – multi-purpose interface	RS485 A – interface, RS485 / RS422 B – / RS485 / RS422 C* - multi-purpose interface
RS485 – interface usage	Inverter connection		
	Connection Sensor basic to record environmental data (irradiance and module sensor)	Connection Sensor Box Commercial to record environmental data (irradiance, module and ambient temperature, wind sensor)	
	For connection of an own-current consumption meter acc. to IEC 60870		
	-	For connection of the display panels produced by Schneider Displaytechnik, Rico or HvG	
	-	-	Connection Utility Meter and I/O Box for PM+ Remote control technology
RS422 – interface usage	RS 422 Fronius / Sunville connectible without additional interface converter		
CAN-Bus	-	-	For the connection of e.g. Voltwerk inverters
Additional function interfaces			
2x S$_0$ In / 1x S$_0$ out	S$_0$ impulse input – for optional recording and calculation of self-produced power consumption		
	Second input to connect an additional power meter		
	-	S$_0$ impulse output for connection of external display units, impulse factor can be set to any value	
Relais	-	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	For reading out data		
	To update device firmware		
PM+ interface	PM+ (Powermanagement)		
	For connection of a Ripple Control Receiver for feedback control of the system		
	Fulfills the EEG 2012 requirements (Germany)		
Solar-Log™ Meter	Current measurements via transformers (extra accessory) up to 2 x 3 phases or 6 single phases		
Network			
Network	Connection to the internet (Ethernet, fixed address or DHCP)		
GPRS	Antenna connection and SIM card slot for Solar-Log™ with integrated GPRS		

* not with GPRS models