

Solar-Log Base

Powerful PV Energy Management and Precise Monitoring



Your added Value and Benefits

The new revolutionary Solar-Log® generation combines smart functionality with greater flexibility for more efficient control, management and monitoring of PV plants. For you, this means:

- **Security**
Easily and effectively monitor solar plant performance.
- **Valuable time savings**
Easily DIN rail mounted for simple installation.
- **Optimal price**
You only have to purchase the functions you need for your plant requirements.

Models	Plant size	Article Number
Solar-Log Base 15	15 kWp	256325
Solar-Log Base 100	100 kWp	256326
Solar-Log Base 2000	2000 kWp	256327

Function

The Innovative Bus Analysis Function Replaces the Oscilloscope

Measure and evaluate the signal quality of the inverter communication (RS485).

Modular Design – Tailored to your Needs

Depending on the requirements, the functions for each PV plant can be individually selected. Interface elements and various software licenses can be purchased to add functions as needed.

Installation License – Easily Determine which Licenses are Required

With Solar-Log Base devices, the required licenses are activated free-of-charge during the installation for 30 days.

Solar-Log Base VPN Function

Make secure VPN data transfers without any additional hardware. This integration saves money and time with less hardware and quicker install.

Smart Energy - More Self-sufficiency than Ever Before

Recording and presentation of self-consumption control and visualization of individual appliances for the optimization of self-consumption.

Feed-in Management – Guarantees Compliance with the Legal Requirements

Reduction of feed-in power with a dynamic allowance for self-consumption.

Display Options

Solar-Log WEB Enerest™ 4 - High Performance Error Analysis

The new online portal features an attractive new design and numerous features. The new features include, a function for the self-learning detection of plant errors, optimized processes and quick diagnostics.

App for the Solar-Log WEB Enerest™* Portal – Intuitive and Free of Charge

This app offers users comfort and security with its structured operating concept, intuitive controls, modern features and interactive graphics. The app is available for free from the Apple App store and Google Play Store.

*Only in combination with Solar-Log WEB Enerest™ 3

Solar-Log™ Pinboard & Slideshow

With the Solar-Log™ pinboard, Solar-Log WEB Enerest™ 4 dynamically displays all important information about the plant such as the yield and performance. For this purpose the pinboard can be individually configured with various widgets. All existing pinboards can be displayed with the slideshow.

Large external display (RS485) – Present your PV Plant Data

A large external display used in combination with the Solar-Log™ can visually present live data from a PV plant. You can also add personalized advertisements. Large external displays can be connected via the RS485 interface.

Connections

Inverters

The new generation Solar-Log™ Base is compatible with inverters from all the major manufacturers.

1 x S₀, 2 x RS485 or 1 x RS422

To connect components.

USB Connection

A USB stick can be connected for safe and quick manual installations of new firmware updates, configurations, and backups.

Ethernet

The Solar-Log Base can be connected directly to compatible inverters via Ethernet.

Licenses

Expandable Licenses *	Solar-Log Base 15	Solar-Log Base 100	Solar-Log Base 2000
Solar-Log Base Expandable License	from 15 kWp to 30 kWp	from 100 kWp to 250 kWp	-
Article number	256328	256329	-

* With additional costs

Basic Functions

	15 kWp	100 kWp	2 MWp
Maximum plant size	15 kWp	100 kWp	2 MWp
Inverter connection options	Ethernet, 2x RS485 or 1x RS422		
Battery storage: visualization, charging time shifts	●	●	●
Smart Energy	●	●	●
Power Management	●	●	●
Direct Marketing	●	●	●
Bus Analysis Function	●	●	●
Maximum cable length*	max. 1000 m		

Licenses

	15 kWp	100 kWp	2 MWp
Expandable license for max. plant size	up to 30 kWp	up to 250 kWp	-
Solar-Log™ direct marketing license	●	●	●

Interfaces

	15 kWp	100 kWp	2 MWp
RS485/RS422	2 x RS485 or 1 x RS422		
Ethernet network**	2 x 100 Mbit/s		
USB	2 x USB 2.0		
S ₀ in	1 x S ₀		

Additional Function Interfaces

Digital control outputs	via an additional module
Digital control inputs	via an additional module
Interface for a ripple control receiver (PM+)	via an additional module

Visualization

	15 kWp	100 kWp	2 MWp
Integrated web servers	●	●	●
Graphic visualization	local and portal		
TFT-Display	●	●	●
Display on the unit	●	●	●
Data transfer to external portals	API, ftps, ftp***		
HTTP data transfers to Solar-Log WEB Enerest™ for low data volumes	●	●	●
Compatible with large external display (RS485 and Modbus TCP)	●	●	●

*Depending on the electrical constraints

**No switch function

***With additional costs

Installation

Installation wizard	●	●	●
Network detection / DHCP	●	●	●
Name resolution solar-log	●	●	●

Feed-in Management

Reduction to X percent (with and without the calculation of self-consumption)	●	●	●
Remote controlled active and reactive power reductions (with the calculation of self-consumption)		● optional PM package	

Plant Monitoring

Inverter Failure, Status, Error and Performance Deviation notifications in the portal	●	●	●
Yield forecast	●	●	●
MPP Tracker Comparison	●	●	●
Sensor system connection (irradiation / temp. / wind)	●	●	●
Self-produced energy consumption; Digital electricity meter	●	●	●
Self-produced energy consumption: Managing external appliances	●	●	●

General Data

Device voltage/ Device output	12 - 24 Volt (+-10%) / typ. 2,4W
Ambient temperature	-20°C to +50°C (without condensation)
Ambient temperature Storage/ transport	-20°C to +60°C
Dimensions (WxHxD)	53.6mm (3TE) x 90mm x 60mm
Mounting	Top hat rails IEC/EN 60715 35mm, Wall mounting (without an additional module)
Protection level according to EN 60529	IP 20
Weight	110g
Multi-lingual (DE, EN, ES, FR, IT, CN)	●
Storage	4 GB internal
Warranty	2 years
Recording length: Day, month and year values	> 10 years

Power supply sold separately