

Maximum plant size 2000 kWp

Optional Powermanagement  
and cos phi control

New: Color TFT-Touch-Display and  
LCD-Status-Display for displaying  
graphics and operation

Monitor central inverters and SCBs



# Solar-Log 2000

For solar power stations and large-scale PV plants

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## Connections

### Inverters

The Solar-Log 2000 is compatible with all the major inverters. A total of 100 SDS supported inverters from up to three different manufacturers can be connected.

### Interfaces

The Solar-Log 2000 Standard and PM+ have two RS485/RS422 interfaces and one RS485 interface. The Solar-Log 2000 GPRS and PM+/GPRS have one RS485/RS422 and one RS485 interface, for two different inverter manufacturers and accessories such as Utility Meter, Pyranometer, SCBs etc.

### Sensors RS485

The sensors measure irradiation, temperature and wind speed. However, they cannot be combined with every inverter manufacturer.

### Meter $S_0$ -in or RS485

The meter records your consumption data, can serve as an inverter or measures the power from incompatible inverters that cannot be connected directly.

### RS485 or $S_0$ -out

Connect large displays to obtain an overview of your data.

### Ripple Control Receiver

The signal to reduce active power is generally sent via a Ripple Control Receiver. Up to two Ripple Control Receivers can be connected to the 2000 PM+, one for power reduction and one for reactive power control.

### Solar-Log 2000 USB connection and data export

A USB stick can be connected to manually install new firmwares with additional inverter support or new functions, or to transfer quick and secure backups and other data.

## Visualization

### Solar-Log™ WEB

The Solar-Log™ WEB "Commercial Edition" online portal expands the monitoring function of the Solar-Log™ and offers comprehensive reporting options in the form of graphs and tables via the internet.

### Solar-Log™ APP

You can access your data and graphical reports at any time from anywhere in the world with the Solar-Log™ APP.

### Solar-Log™ Dashboard

A feature with the WEB "Commercial Edition" is that the Dashboard displays all important information for a plant such as yields, CO<sub>2</sub> savings and plant performance.

### Accessing the Solar-Log™

The Solar-Log™ is operated from a PC with any standard web browser. Remote access to the WEB "Commercial Edition" is possible.

### Solarfox® large display and external displays

A large display used in combination with the Solar-Log™ can visually present the live data from a PV plant. You can also add personalized advertisements. External displays can be connected via the RS485 or S<sub>0</sub> interface.

## Options

### Solar-Log 2000 GPRS

Solar-Log 2000 GPRS is the alternative to an external GPRS modem, allowing the data logger to be connected to the data network simply and securely. A GPRS connection is especially suited to free-standing plants or buildings which do not have a usable internet connection available.

### Solar-Log 2000 PM+

The PM+ product line implements the feed-in and network safety management. It covers the entire spectrum of requirements for active and reactive power, e.g. the German Renewable Energy Law 2012 (EEG).

### **Solar-Log 2000 PM+ & Solar-Log™ Utility Meter**

Combining the Solar-Log 2000 and Utility Meter simplifies implementation of the diverse requirements for power management in Germany. The voltage-dependent reactive power control, Q(U) function, is accomplished by measuring the medium voltage with the Utility Meter. The combination of the Solar-Log 2000 and Utility Meter is also needed to send a confirmation of the current amount of feed-in power to the grid operator.

### **Solar-Log 2000 & PM-Package**

For plants larger than 100 kWp, remote control of the reactive power supply and power limitations are required along with a confirmation of the current amount of feed-in power. In practice, each distribution grid operator stipulates their own signalization variant in the technical connection requirements (TAB). To fulfill the requirements from a particular grid operator, Solare Datensysteme offers a grid company a specific PM-Package. This package includes hardware that is adjusted to a company's remote control technology and profile file.

### **Solar-Log™ String Connection Box (SCB) or String Monitoring Box (SMB)**

When used with the Solar-Log™ WEB "Commercial Edition" and either the SCB or SMB, the Solar-Log 2000 monitors every single string, ensuring the most complete and secure monitoring for large-scale PV plants with exact error identification and localization.

## **Functions**

### **Self-consumption**

The Solar-Log 2000 offers the option to measure the amount of self-produced power consumed and to present it graphically via the Solar-Log™ WEB "Commercial Edition". A digital power meter serves as a consumption meter.

### **Cable cover**

With its attractive design, the cable cover for the Solar-Log™ offers the best possible mechanical protection for interfaces and cables.

### **Solar-Log 2000 data security**

The data volume from the Solar-Log™ can be recorded for up to 20 years. The micro SD card is used to protect against any loss of data in the event of a power failure.

### **Solar-Log 2000 alarm function**

This provides your plant with anti-theft protection and an external alarm against burglars and vandals.