



User Manual

Solar-Log⁵⁰⁰

MAXIMIZED SUNPOWER

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1 General information

This user manual is intended to assist you in the operation of the Solar-Log⁵⁰⁰. The yield data for the Solar-Log⁵⁰⁰ can be displayed in several ways:

- via a web browser in a local network (*¬*page 7) or
- via the internet (**>**page 27) or
- via the Solar-Log[™] APP for iPhone (**7**page 43).

2 Operation using the web browser in your own network

2.1 Requirements



Information

For faster access, enter "solar-log" in the address line of the browser and create a bookmark.

In the local network

To operate the Solar-Log⁵⁰⁰ using a web browser you will need to be on a computer that is connected to the same local network as the Solar-Log⁵⁰⁰. This computer will also need to have a modern web browser installed on it.

You are also able to operate the Solar-Log⁵⁰⁰ on a mobile device such as a tablet, smartphone. This device must also be connected to the same local network as the Solar-Log⁵⁰⁰. It must also have a modern web browser installed on it.

Via the internet

In addition to the computer or mobile computer with a web browser you need an active internet connection as well as a user account on a server.

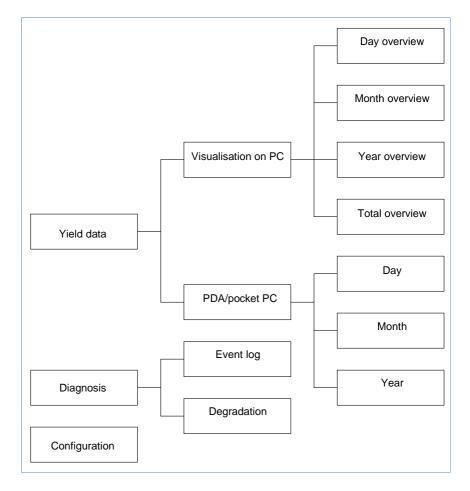
 To set up a user account please contact your solar technician or find out more on our homepage under

http://www.solar-log.com/en/products-solutions/solar-log-web.html

Operation using the web browser in your own network

2.2 Overview

2.2.1 Navigation overview



2.2.2 Homepage

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🕘 Meistbesuchte Seiten 📄 Erste Schri	te 🔝 Aktuelle Nachrichten			
📄 Main menu Solar-Log1000	+			-
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Visualization PC				
PDA / PocketPC			4000	
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T T	The dual of a distribution of	an be chosen under the menu items abov		
			A	
	More informatio	n		
	Inverters	3		
	Plant size Firmware	4.4 kWp 2.3.1 Buil d 33 - 22.03.2011	C	
	Serialnumber	540775179	U	
			— В	
	@ 2010 Sr	lare Datensysteme GmbH info@solar-k		
		,		

The homepage contains the following areas:

- Main navigation menu (A)
- Navigation bar (B)
- Information field (C)

Main navigation menu

The main navigation menu contains three main operating groups:

Yield data: Here you will find the yield information within certain periods of time such as day, month, year and the total yield to date of your plant.

- Diagnosis: Here you can call up the fault and process reports as well as filter according to desired criteria.
- Configuration: Here you can change the settings of your device as required.

Left navigation bar

Depending on the selected field in the main navigation menu you can access additional functions in the left navigation bar.

Information field

Device configuration will take place in this area. When viewing yield information an additional window will pop up and yield information can be found there.

2.3 Calling up yield data

- 1 Start the web browser and enter "solar-log" in the address line of the browser or select the bookmark in the browser's navigation bar.
 - \rightarrow The homepage is displayed.
- 2 Select Visualization PC in the left navigation bar.
 - → The output details for the current day are displayed in a new window.

2.3.1 How to navigate within the overviews

Symbol	Meaning
$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	Arrow keys: used to navigate to the previous or next period of time shown. Magnifying glass symbol: used to update the modified parameters.

Symbol	Meaning
ALL SO 1 INV1	Information on the inverter that is connected. Hold the cursor over a field to display the specific values.
yield Udc kWp ValuesBalance 24h	Display of additional information on the plant (⊿ page 11).

- 1 Click inside the colored area of the connected inverter or the desired yield values.
- 2 Click on the magnifying glass symbol.
 - → The overview is updated and the yield information for the inverter or the yield values is shown in the selected overview, as a line.
- **3** Move to the next overview by clicking on the information under the heading.
- 4 Close the yield data window.
 - \rightarrow This allows you to return to the main menu.

2.3.2 What the values in the overviews mean

Description	Unit	Meaning
Power input Pac	W	The current power input P on the AC voltage side
Generator output Pdc	W	The current power input P on the DC voltage side (solar generator)
Inverter efficiency η	%	The current efficiency from the generator output and the power input. The manufacturer's specifications regarding the efficiency of the inverter can be checked here.

Operation using the web browser in your own network

Description	Unit	Meaning
Status / Error		Status and error codes for the inverter. The codes shown are dependent on the manufacturer and must be looked up in the manual for the respective inverter. Status messages that are the same are collated.
Yield	kWh	The yield for the period of time shown (day, month, year, total)
Yield, specific	kWh/kWp	The output divided by the plant size. This value is a good reference value with respect to other plants.
Maximum value	W	The maximum output value within the period of time shown.
Target	kWh	The device runs a forecasting statistics function that specifies a certain target value for each time period. If the target value is attained or exceeded the forecast output has been achieved.
Actual	%	The actual value shows the percentage share for the actual yield and the target yield.

2.3.3 Day overview

• Select Overview Daily in the left navigation bar.



The daily yields are shown in a curve chart. The red line shows the target value for each day.

Buttons for the day overview

- **Yield**: Yield line via which the yield trend can take place. In addition, a red line is displayed as the total daily target.
- Udc: Generator voltage. To display voltage of the individual strings only one inverter may be selected.
- kWp: Converting the scaling from "Output in watts" to "Output in kWh/kWp". This makes all of the curves comparable in terms of their specific output. This also makes it easier to identify decreased outputs from specific inverters/strings.
- °C / °F : Display showing the inverter's internal temperature. This allows you to check that the fans are functioning correctly. Please note that inverters are designed to have high internal temperatures.

The temperature display is shown only for inverters that provide the corresponding measured value.

24h: Display showing the output over 24 hours of the day for a complete visualisation of the power consumption over the course of one day.

Additional functions using S0 meter reader

The following displays are also available to you by connecting an S0 meter to the Solar-Log™:

- S0: Shows the power consumption for your building as a graph, in watts.
- Cons.: Shows the power consumption for your building as a rising line, in kWh.
- Values: Shows various values for your inverter in text form.
- Balance: Shows you the ratio of your power consumption to your power yield. In the lower left text field the ratio is also shown as a percentage.

Additional functions with the sensor box

- Solar: Shows the reference value of an irridation sensor. The daily output of the plant must be within the measuring range of the sensor.
- Mod T: Shows the module temperature. The temperature is detected by the sensor box.

2.3.4 Month overview

Select Overview Monthly in the left navigation bar.

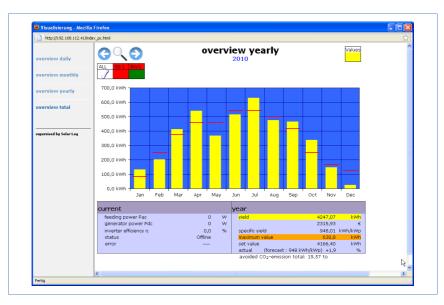


The daily yields for one month are shown as a total in a bar graph. The red line shows the target yield for each month.

- 1 Move the mouse over a day bar.
 - \rightarrow The corresponding day's yield is shown.
- 2 Click on an individual bar to switch to the corresponding day overview.

2.3.5 Year overview

• Select Overview Yearly in the left navigation bar.



The individual monthly yields are shown as a total in a bar graph. The red line shows the target yield for each month.

The "Forecast" value is calculated using the yields already achieved for the year and is then projected using the target yields for the remaining months of the year.

- 1 Move the mouse over a month bar.
 - \rightarrow The corresponding month's yield is shown.
- 2 Click on an individual bar to switch to the corresponding month overview.

2.3.6 Total overview

• Select Overview Total in the left navigation bar.

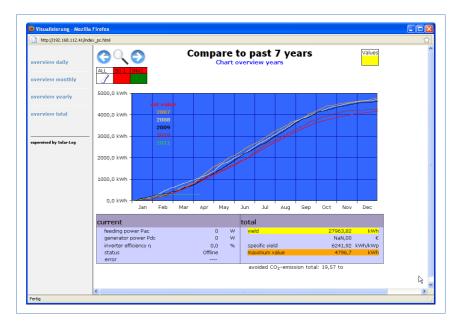


The individual annual yields are shown as a total in a bar graph. The red line shows the total target yield. For the current year two red lines are shown:

- The top line shows the annual target.
- The bottom line shows the annual target accumulated to the present day.
- **1** Move the mouse over a year bar.

 \rightarrow The corresponding year's yield is shown.

- 2 Click on an individual bar to switch to the corresponding year overview.
- 3 Click on Line overview, years to display a line view for the total yield.



4 Click on Chart overview, years to display a bar view for the total yield.

2.4 Calling up yield data on a mobile computer

You can also call up the current yield data for your plant via mobile computer (e.g. smart phone). To do this your smart phone logs onto the internet or your local server and calls up your data.

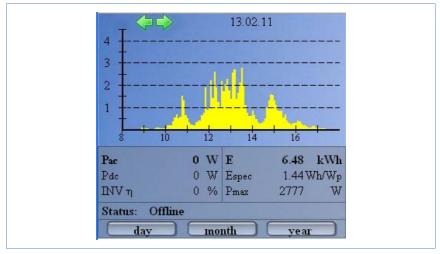


This function is only available in the local network or for plants which run on our "Classic 1 Server".

Please note that additional costs for the internet connection may be charged by your mobile service provider.

- Start the web browser on the mobile computer and enter "solar-log" or the IP address for the Solar-Log[™] in the address line of the browser or select the bookmark in the browser's navigation bar.
 → The homepage is displayed.
- 2 Select PDA/Pocket PC in the left navigation bar.

2.4.1 Day

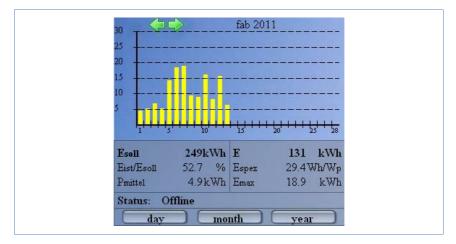


• Select Day in the left navigation bar.

The updated yield data for the day is shown.

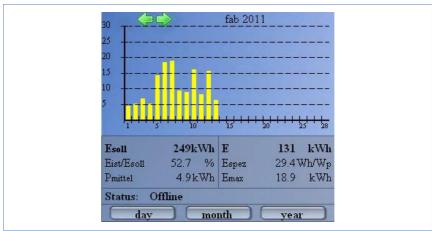
2.4.2 Month

• Select Month in the left navigation bar.



The yield data for the current month is shown.

2.4.3 Year



Select Year in the left navigation bar.

The yield data for the previous year is shown.

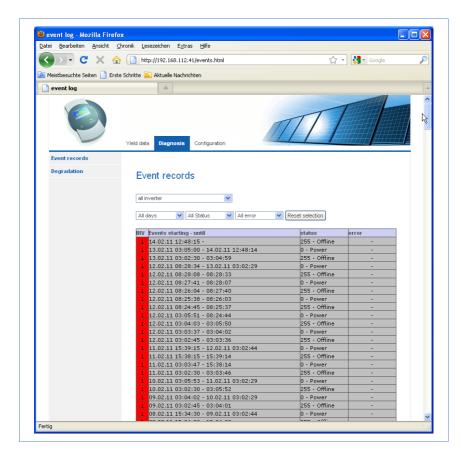
2.5 Calling up the diagnosis function

With the diagnosis function you are accessing the device's event log. You can display a total overview of all of the errors, malfunctions and status changes that have occurred for the connected inverters. You can also filter them according to your desired criteria.

Moreover, the diagnosis menu also shows you the decrease in output ("degradation") of your plant.

- Start the web browser and enter "solar-log" in the address line of the browser or select the bookmark in the browser's navigation bar.
 → The homepage is displayed.
- 2 Select **Diagnosis** in the main navigation menu.
 - \rightarrow The event log is shown.

Operation using the web browser in your own network



2.5.1 Calling up and filtering the event log

- Select Even log in the left navigation bar.
 - \rightarrow The complete list of all system events is shown.

Operation using the web browser in your own network

Datei Bearbeiten Ansicht	⊆hronik Lesezeichen E <u>x</u> tras <u>H</u> ilfe		
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	Yield data Diagnosis Configuration	Π	
Event records			
Degradation	Event records		
	Event records		
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	11.02.11 02:30 - 03:05:52	255 - Offline	-
	10.02.11 04:02 - 10.02.11 03:02:29	0 - Power	-
	09.02.11 1 30:45 - 11.02.11 07:57:32	255 - Offline	
	08.02.11 30:30 - 17:30:44	6 - Riso	
	07.02.11 21:00 - 17:30:44	2 - Netzueb.	
	07.02.11 06.02.11 05.02.11 20:15 - 17:20:59	2 - Netzueb. 6 - Riso	
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To display only certain events or events that occurred on a certain day in the previous 35 days, use the filter function.

- Select the desired inverter in the All inverters drop-down menu.
 → Only the events for the selected inverter are shown.
- 2 Narrow down the selection by selecting the desired day in the All days drop-down menu.
 - \rightarrow Only the events for the selected day are shown.
- 3 Narrow down the selection further by selecting the desired status in the All statuses drop-down menu.
 - → The only statuses available are those which occurred within the selected period of time.

- 4 Narrow down the type of error by selecting the desired error in the All errors drop-down menu.
 - → Only those errors are shown which occurred within the selected period of time.
- 5 Click on Reset selection to cancel all of the filter settings.

2.5.2 Displaying the decrease in output for your plant

To obtain an overview of the total output for the previous years and the current performance, the device offers a tabular view.

- Start the web browser and enter "solar-log" in the address line of the browser or select the bookmark in the browser's navigation bar.
 → The homepage is displayed.
- 2 Select **Diagnosis** in the main navigation menu.
- 3 Select Degradation in the left navigation bar.
 - → Your plant's decrease in performance is shown.

Operation using the web browser in your own network

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Event records								
Degradation	Deg	radation						
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For this purpose the annual "average max. day value" is calculated This value is calculated with the effective maximum values and a statistical adjustment, in order to filter extreme								
		ue is calculated v	vith the effective		and a statistical adjus	stment, in	order to filter extreme	
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	This value peaks. T Data cor Data an Year 20 Top 1 2 3 4	he comparison on mparison requires alysis for the y OS Max. value Wh 31050 29559 29349 29215	f the calculated s a sufficient nu ears 2005 Unti Date 12.05.05 22.04.05 19.06.05 03.06.05	e maximum values : max: values provio mber of data recorr 12011 Graduation % 100 95.1	des an indication on t ds per year as well a	he syste is identic	n performance. al system technology. Average max	
	This veli peaks. T Data con Data an Year 20 Top 1 2 3 4 5	he comparison on parison requires alysis for the yr 05 Max. value Wh 31050 29559 29349 29215 29154	f the calculated s a sufficient nu ears 2005 Unti Date 12.05.05 22.04.05 19.06.05 03.06.05 19.05.05	e maximum values : max. values provic mber of data recorr 12011 Graduation % 100 95.1 92.8	des an indication on t ds per year as well a	he syste is identic	n performance. al system technology. Average max	
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	This veli peaks. T Data cor Data an Year 20 Top 1 2 3 4 5 6 7	he comparison or requires alysis for the yr os Max. value 29559 29559 29349 29215 29154 29150 29150 28876	f the calculated a sufficient nu ear s 2005 Unti Date 12.05.05 22.04.05 19.06.05 19.05.05 28.05.05 28.05.05 20.06.05	e maximum values ; max: values provin ber of data recorr 1 2011 Graduation % 100 95.1 92.8 92.7 82.7	des an indication on t ds per year as well a	he syste is identic	n performance. al system technology. Average max	
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The performance of your modules decreases gradually over the years. Depending on the quality of the modules, this leads to a continuous reduction in the total yield of your plant, so-called "degradation".

To this end the "average maximum day value" is calculated for each year. It is calculated from the actual maximum values and a statistical adjustment to filter out extreme peaks. The comparison of these calculated maximum values allows conclusions to be drawn regarding the performance on the plant.

2.6 Changing settings in the configuration menu

The configuration menu allows you to make changes and adjustments to the device software. The device should have been put into service and fully configured by your solar technician. However, you may like to make changes at a later date, such as changing your password or the network settings (because you want to use a new router, for example), etc.

- To make changes to the configuration please contact your solar technician.
- If you would like to make changes yourself, obtain the installation manual that is available for download from our internet site (¬page 60).

3 Showing performance data on the display

Besides controlling the Solar-Log via the Web browser Solar-Log500 also has a 2 line text display. With this display you can view actual performance values.

Following values are displayed on the device, changing regularly:

Description	Unit	Meaning
Power input Pac	W	The current power input P on the AC voltage side
Generator output Pdc	W	The current power input P on the DC volatage side (solar generator) If only one multi string inverter is se- lected, all individual strings will be dis- played separately
EDay	kWh	Day yield
Espez	Wh/Wp	The energy yield divided by the maxi- mum output. This value is a good refer- ence value with respect to other plants.

4 Using Solar-Log WEB

You can also use Solar-Log[™] WEB to call up the yield data and event logs for your plant via the internet, as well as set up a daily email containing the yield and fault reports to be sent out to an email address. To do this you need a Solar-Log[™] WEB account.

In addition to this option we also offer further levels of expansion with a corresponding range of service to fulfil every requirement. For further information, contact your solar technician directly or visit the following address

http://www.solar-log.com/en/products-solutions/solar-log-web.html

4.1 Register with Solar-Log[™] WEB "Classic 2nd Edition"

Registration for the Solar-Log[™] WEB "Classic 2nd Edition" takes place quickly and simply online.



Information

It is important to note that the following addresses are for the German "Classic 2nd Edition". To determine which address to visit for your country ask your installer or visit

http://www.solar-log.com/?L=1 for more information

I ADDED THE ABOVE AS I THOUGHT IT WAS NECESSARY TO MENTION. DELETE THIS COMMENT BEFORE PRINT

1 Open the browser and navigate to the Solar-Log[™] WEB registration page under

http://home2.solarlog-web.eu/register.html

Or open the homepage under

http://home2.solarlog-web.eu/willkommen.html

- 2 Select Registration in the left navigation bar.
 - \rightarrow The registration form is shown.

USER:	PASSWORD:	LOG ON	😐 •	•
() Solar-Lo	oğ		Solar-Log™ WEB "Classic-2nd-Editio	<i>m"</i>
Vielcome Plants Map Registration FAQ	Pla	istration lar-Log [™] WEB "Cla ant data lar-Log [™] Serial Number: blicly visible:	Sic - 2nd Edition" Edition" Where can 1 find the serial number?	
	Titi Fir Co Str Zip To Co	cation data le: st name: st name: reet / house no.: Code: wn: untry: te:		
	En Te Mo	entact information hail address: lephone*: bile phone*: * [*] :		
		rms & rivacy Policy	Please confirm that you have read and agree to our <u>Terms</u> and the <u>Privace Police</u> I have read and agree with the <u>Terms</u> .	
	H	ه د ع ع م	Please enter the keyword contained in the image on the left side. Why check this?	

- 3 Enter the Serial number of your device.
 - → The serial number (SN) can be found under the top cover (↗page 59).
- 4 Select whether you would like the data to be **Publicly visible** to the internet.
 - → Your plant information is then able to be viewed by other visitors to the site. If you select "No", you must log in using the user data

that you receive from Solare Datensysteme GmbH in the course of the registration process (7page 31).

- \rightarrow The "publicly visible" setting can be changed at any time afterwards on your website in the "Configuration" area.
- 5 Enter your Location data and your Contact information.
- 6 Confirm acceptance of the General Terms and Conditions (AGB) and the Privacy Policy after you have read them.
- 7 Enter the Code word shown in the chart in order to ensure that no automated programs (Bots) are performing the registration which could then paralyze the server.
- 8 Confirm your entries by pressing **Register now**.
 - \rightarrow If you have not entered a code word or have entered the code word incorrectly, a new code word is automatically displayed and you do not need to re-enter your data.

On successful completion of your registration you will receive an email sent to your designated email address which you must confirm. After your data has been manually checked your access will be granted.

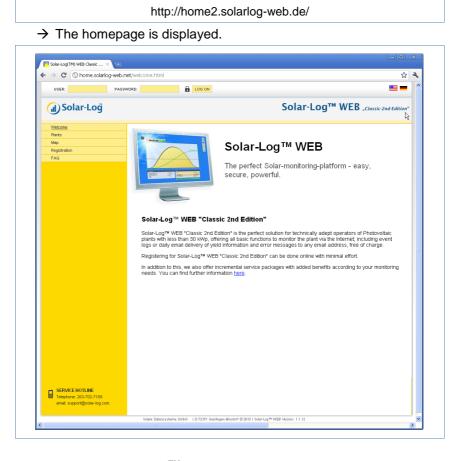


Note

The activation takes place during normal business hours and can take up to 24 hours.

4.2 Calling up plant data

In the browser, open the homepage for Solar-Log[™] WEB or enter the URL in the address line of the browser:



Logging in to Solar-Log[™] WEB

If you have refused "visibility to all" when registering, you must log in to the Solar-LogTM WEB internet site. If your plant is visible to all, you can skip the log in.

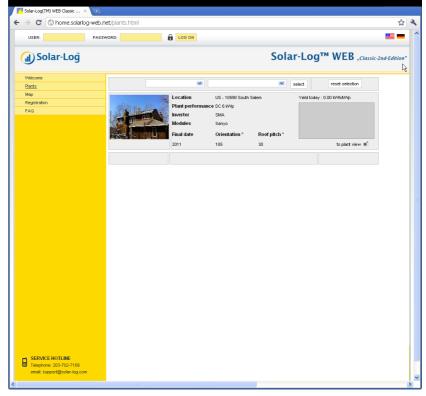
 In the header enter your User and Password information and click on Log On.

Calling up the plant overview

All of the plants are shown in the overview. The plants are anonymous. You can directly display the plants that are visible to all under the day chart.

Plant data that has been given a password can only be called up by registering.

Select Plants on the left navigation menu



 Select the Zip Code of your location, Inverter manufacturer, Final Date of installation or the manufacturer of the Modules in your plant. 2 Click on Select to filter the list according to the criteria selected or click on Reset selection to cancel the selection criteria.

 \rightarrow A list of plants is shown that correspond with the filter criteria.



The overview shows the installed inverters, their output, module manufacturer, year of manufacture, orientation and the roof slope of the plants. If no picture of the plant has been made visible to all, a standard image is shown.

In addition, in the right column you can find an overview of the plants' current yield.

- 3 Click on to plant view below the yield diagram.
 - \rightarrow The detailed overview of the plant is shown.



The detailed overview shows additional technical details about the plant as well as the plant status including any error messages that have occurred.

4 To navigate directly to the plant details, place a bookmark in your browser.

4.3 Calling up yield data

4.3.1 How to navigate within the overviews

The navigation on the internet site for the overviews is similar to the navigation on the overview pages in your local network (7 page 10).

Switching between the overviews

- 1 Move the cursor onto the small triangle on the left next to the display for the period of time.
 - \rightarrow An overview of the time periods is shown.



- 2 Click on the desired time period.
 - \rightarrow The overview of the time period is shown.

4.3.2 What the values in the overviews mean

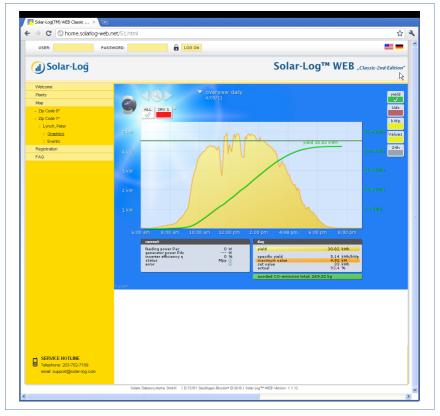
The values provided below the diagrams are similar to the values on the overview pages in your local network (7 page 11).

Any information regarding revenue is not shown on the internet site for reasons related to privacy.

4.3.3 Day overview

- 1 Open the browser and click on the bookmark for your plant.
 - \rightarrow You may have to log in (\neg page 31).

- \rightarrow The detailed overview of your plant is shown.
- 2 Select Graphics in the left navigation bar.
 - → The day overview of the plant is shown.



The daily yields are shown in a curve chart. The dark green line shows the target value for the day.

Move the cursor over the curves to display the corresponding values.

Buttons for the day overview

Yield: Yield line via which the yield trend can take place. In addition, a dark green line is displayed as the total daily target.

- Udc: Generator voltage. To display voltage of the individual strings only one inverter may be selected.
- kWp: Converting the scaling from "Output in watts" to "Output in kWh/kWp". This makes all of the curves comparable in terms of their specific output. This also makes it easier to identify decreased outputs from specific inverters/strings.
- 24h: Display showing the output over 24 hours of the day for a complete visualisation of the power consumption over the course of one day

Additional functions using S0 meter reader

The following displays are also available to you by connecting an S0 meter reader to the Solar-Log^M:

- S0: Shows the power consumption for your building as a graph in watts.
- Cons.: Shows the power consumption for your building as a rising line in kWh.
- **Values**: Shows various values for your inverter in text form.
- Balance: Shows you the ratio of your power consumption to your power yield. In the lower left text field the ratio is also shown as a percentage.

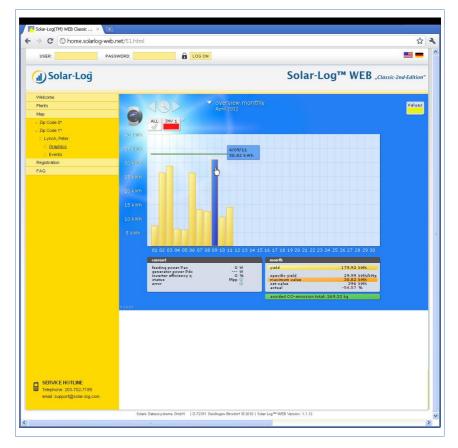
Additional functions with the sensor box

- Solar: Shows the reference value of an irridation sensor. The daily output of the plant must be within the measuring range of the sensor.
- Mod T: Shows the module temperature. The temperature is detected by the sensor box.
- Click on one of the buttons and then on the magnifying glass symbol.
 → The selected curve is shown.

4.3.4 Month overview

Select Overview Monthly in the navigation menu.

Using Solar-Log WEB



The daily yields for one month are shown as a total in a bar graph. The dark green line shows the target value for the month.

- 1 Move the mouse over a day bar.
 - \rightarrow The corresponding day's yield is shown.
- 2 Click on an individual bar to switch to the corresponding day overview.

4.3.5 Year overview

Select Overview Yearly in the navigation menu.



The individual monthly yields are shown as a total in a bar graph. The dark green line shows the target value for the month.

The "Forecast" value is calculated using the yields already achieved for the year and is then projected using the target yields for the remaining months of the year.

- 1 Move the mouse over a month bar.
 - \rightarrow The corresponding month's yield is shown.
- 2 Click on an individual bar to switch to the corresponding month overview.

4.3.6 Overview of all years



Select Overview all years in the navigation bar.

The individual annual yields are shown as a total in a bar graph. The dark green line shows the target value for the year. For the current year two green lines are shown:

- The top line shows the annual target.
- The bottom line shows the annual target accumulated to the present day.
- 3 Move the mouse over a year bar.

- \rightarrow The corresponding year's yield is shown.
- 4 Click on an individual bar to switch to the corresponding year overview.
- 5 Click on Line overview, years to display a line view for the total yield.

4.3.7 Calling up and filtering the event log

- Select Events in the left navigation bar.
 - \rightarrow The complete list of all system events is shown.

C Shome.solark	og-web.net/52.html			z
USER:	PASSWORD:			
🗊 Solar-Loğ		S	olar-Log™ W	EB "Classic-2nd-Edition
Welcome	Lynch, Pete			2
Plants	All inverte		set selection	
Мар	All inverte	ns 💌 All days 💌 All status 💌 All errors 💌 He	serselection	
- Zip Code 0*	02.04.2011	- 12.04.2011		
Zip Code 1*	Inverter	Events from - to	Status	Error
:: Lynch, Peter	1	11.04.2011 07:44:45 - 07:44:59	6 - Mpp-Search	
:: Graphics	1	11.04.2011 07:34:45 - 07:44:44	7 - Mpp	
:: Events	1	11.04.2011 07:34:30 - 07:34:44	6 - Mpp-Search	
Registration	1	11.04.2011 07:24:30 - 07:34:29	7 - Mpp	
FAQ	1	11.04.2011 07:24:00 - 07:24:29	6 - Mpp-Search	
	1	11.04.2011 07:14:00 - 07:23:59	7 - Mpp	
	1	11.04.2011 07:13:45 - 07:13:59	6 - Mpp-Search	
	1	11.04.2011 07:13:30 - 07:13:44	2 - Grid monitoring	
	1	11.04.2011 07:13:15 - 07:13:29	3 - Waiting	
	1	11.04.2011 07:12:15 - 07:13:14	7 - Mpp	
	1	11.04.2011 07:12:00 - 07:12:14	6 - Mpp-Search	
	1	11.04.2011 07:11:30 - 07:11:59	2 - Grid monitoring	•
	1	11.04.2011 07:11:15 - 07:11:29	6 - Mpp-Search	
	1	11.04.2011 07:10:45 - 07:11:14	2 - Grid monitoring	
	1	11.04.2011 07:10:30 - 07:10:44	7 - Mpp	
	1	11.04.2011 07:10:15 - 07:10:29	6 - Mpp-Search	
	1	11.04.2011 07:10:00 - 07:10:14	2 - Grid monitoring	
	1	11.04.2011 07:09:45 - 07:09:59	3 - Waiting	

To display only certain events or events that occurred on a certain day in the previous 35 days, use the filter function.

- 1 Select the desired inverter in the All inverters drop-down menu. \rightarrow Only the events for the selected inverter are shown.
- 2 Narrow down the selection by selecting the desired day in the All days drop-down menu.
 - \rightarrow Only the events for the selected day are shown.

- 3 Narrow down the selection further by selecting the desired status in the All status drop-down menu.
 - → Only those statuses are available which occurred within the selected period of time.
- 4 Narrow down the type of error by selecting the desired error in the All errors drop-down menu.
 - → Only those errors are shown which occurred within the selected period of time.
- 5 Click on Reset selection to cancel all of the filter settings.

5 Using the Solar-Log[™] APP for iPhone

In order to allow you mobile access to your plant data, we offer you a Solar-Log[™] APP for iPhone, iPad and iPod Touch. The app can be downloaded free of charge from Apple's app store.

The app shows you current and past yield data in chart form. Using the intuitive operation you can quickly navigate between day, month, year and total overviews.

Requirements

Our Solar-Log[™] APP is compatible with all versions of iPod Touch, iPhone and iPad firmwares from system version iOS 3.0 and upwards. The Solar-Log[™] APP works with any server solution from Solare Datensysteme GmbH.

5.1 Installing the app

You can obtain the app free of charge from the app store.

Downloading the app

- 1 Look for "Solar-Log" in the App store.
- 2 Follow the instructions for download and installation on your iPhone, iPad or iPod Touch.

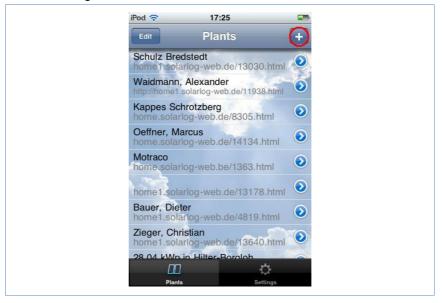
Starting the app



- 3 Start the app on your iPhone, iPad or iPod Touch.
 - \rightarrow The start screen is shown.

5.2 Adding plants

You can use the app to monitor any of up to 10 that are each connected to a Solar-LogTM.



- 1 Click on the + symbol.
 - → The **New plant** view is shown.

Using the Solar-Log[™] APP for iPhone

iPod 🗢	08:59	
Cancel	New plant	Save
URL	I	
Тур	Home Web	Local
QWE	RTZUI	ΟΡ
AS	DFGHJ	KL
Ŷ	XCVBN	M 💌
123	. / .com	Return

- 2 Select the Service Type of the server:
- **Home**. Your plant is located on the Classic 1 server.
- **Web**. Your plant is located on the Classic 2 server.
- Local. You can call up the data directly from your Solar-Log[™] in the local network.

Home

1 Enter the complete URL of your Solar-Log[™] website, for example

www.solarlog-home.de/myPlant

2 Save the entry for the plant.

Using the Solar-Log[™] APP for iPhone



Web

- 1 Enter the URL, Serial number and Password that you received in the registration email from Solare Datensysteme GmbH.
- 2 Save the entry for the plant.

Local			
	iPod 🗢	09:02 ew plant	ave
	URL		
	Тур	Home Web Loca	1
	QWER	TZUIO	P
		FGHJK	
		СУВИМ	
	123	/ .com Ret	

- 1 Enter the IP address of the Solar-Log[™] as a URL.
- 2 Save the entry for the plant.

5.3 Calling up yield data

If your plant has been correctly recognised it is shown in the overview.

Note

Please note that the data is only updated if your iPhone, iPad or iPod Touch has an existing internet connection.

5.3.1 How to navigate within the overviews



Tap on the screen to obtain a menu on the lower edge of the picture in which you can select the desired overviews.

5.3.2 What the values in the overviews mean

The values provided in the diagrams correspond to the values on the overview pages in your local network (7 page 11).

• In the views tap on Stats to show the current values for each view.

5.3.3 Day overview

1 Start the app.



2 Tap on the blue arrow key next to the name of your plant.



 \rightarrow The current day overview is shown.

The yields for the selected day are shown as a curve.

- **3** Turn you iPhone, iPad or iPod Touch horizontally to obtain a better view.
- 4 Swipe to the left or right to go to the next or previous overview.

5.3.4 Month overview

- **1** Tap the screen.
 - → The overview navigation menu is shown on the lower edge of the screen.



2 Select Month to go to the month overview.

The yields for the selected month are shown as a bar.

3 Swipe to the left or right to go to the next or previous overview.

5.3.5 Year overview

- 1 Tap the screen.
 - → The overview navigation menu is shown on the lower edge of the screen.
- 2 Select Year to go to the year overview.



The monthly yields for the selected year are shown as a bar.

3 Swipe to the left or right to go to the next or previous overview.

5.3.6 Total overview

- 1 Tap the screen.
 - → The overview navigation menu is shown on the lower edge of the screen.
- 2 Select **Total** to go to the total overview.



3 Swipe to the left or right to go to the next or previous overview.

5.4 Calling up data

- 1 Tap the screen.
 - → The overview navigation menu is shown on the lower edge of the screen.
- 2 Select Data to go to the data view.

Plant Detail	
Title Solaranlage der Familie Karwath	
Location 72336 Balingen-Dürrwangen	
Module 28 Sharp 160W	
Inverter SMA SB4200TL (2.Gerät seit Inbetriebnahme)	

The data view shows you the owners, the location of the plants, the installed modules and inverters as well as output and orientation of the plant and the date of its commissioning entered.

5.5 Calling up CO₂ savings

- 1 Tap the screen.
 - \rightarrow The navigation menu is shown on the lower edge of the screen.
- 2 Select CO2.
 - → The total accumulated amount of carbon dioxide emissions that have been prevented by your plant is shown.



The saving shown is calculated using the quantity of carbon dioxide that would have been created in order to generate the same amount of energy using fossil fuels.

5.6 The yield data as a slide show

You can use the slide show function to turn your iPod Touch or your iPad into an "electronic picture frame". This "picture frame" shows in rotation the various overviews contained within the Solar-Log[™] app.



You can find suitable holders (cradles) for mounting the devices in specialist stores.

- 1 Tap the screen.
 - → The slide show function is shown on the upper edge of the screen.



2 Select Slide show and place the iPad or iPod Touch in a cradle.
 → Now you are able to read off the updated values at any time.

6 Cleaning and care

6.1 Cleaning tips



Caution

Be sure to unplug the device prior to cleaning it!

- Clean the device on the outside only with a dry, lint-free cloth.
- If very dirty, the device can be cleaned with a slightly damp cloth and a commercially available household cleaner.



Caution

When cleaning, ensure that no moisture enters the device!

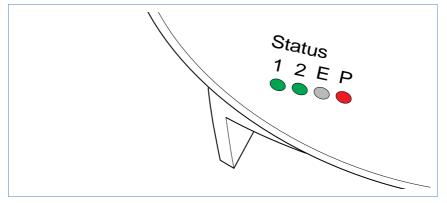
6.2 Care tips

- Ensure that the device is not exposed to any moisture at the location where it is kept.
- Ensure that the device is not exposed to any heat or strong sunlight at the location where it is stored.
 Please take note of the Technical Data (*n*page 62).

7 Malfunctions

7.1 Status display for the LEDs

On the front side of the device in the lower left area there are four LEDs that show the operating status of the device.



Depending on the operating status, LED 1, LED 2, and LED E can flash quickly or slowly, be permanently illuminated or not be illuminated.

The red LED P indicates the power supply.

The LED **E** is generally not illuminated during normal fault-free operation. If it is illuminated or flashing, this indicates that a system malfunction has occurred.

Normal operation			
LED 1	LED 2	LED E	Meaning
quickly	quickly	off	Max. 5 min.: Device starts
illuminated	slow	off	Import time via internet
off	quickly	off	Read configuration from inverter

Normal operation

Normal operation			
illuminated	illuminated	off	Normal operation, inverter online
illuminated	off	off	Normal operation, inverter offline

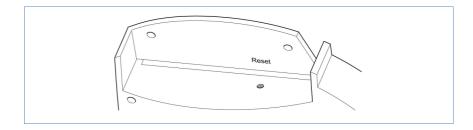
System malfunctions

System malfunctions			
LED 1	LED 2	LED E	Meaning and possible remedy
quickly	quickly	off	For 5 min. during initialization: Error!Unplug power plug and plug in again.
illuminated	slow	slow	Import time via internet failed:Set time manuallyCheck internet access
off	slow	slow	 Configuration invalid or nonreadable: Check interface Check cable Perform re-start (7page 60)
		illuminated	 Only for Fronius inverters: No data communication! Wait until inverters import Check wiring
		quickly	Plant has signalled a fault.

7.2 Remedying faults yourself

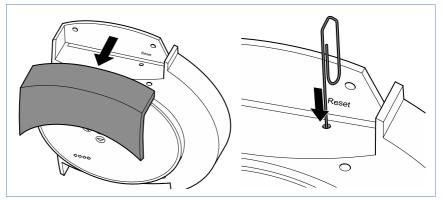
You can remedy faults yourself by restarting the device. A restart is necessary if the device no longer reacts to entries in the web browser. All of the settings made on the device remain in place, as does the saved yield data.

To restart the device, use the reset button at the top of the device.



Opening the cover

If the cover is fitted, you must first open the cover of the device.



• Pull the cover frontwards to remove.

Performing a restart

- 1 Press the reset button e.g. with an open paper clip.
 - \rightarrow LED 1 goes out.
- 2 Release the reset button.
 - → After approx. 5 seconds LED 1 illuminates again.
 - → After approx. 20 seconds LED 1 and LED 2 start to flash, the device restarts with the set values.
- **3** Wait until normal operation has recommenced and then close the cover.



Caution

Do not perform a restart by pulling out the power plug!

7.2.1 Obtaining information from the internet

You can also obtain support for operating the device or the settings on our internet site under the following URL:

http://www.solar-log.com/en/service-support/technical-support.html

Here you will also find additional product information and manuals available for download.

7.2.2 Informing a specialist technician

Should problems occur with the Solar-Log⁵⁰⁰ that are not able to be remedied using them measures described, we recommend that you contact your solar technician or our customer service.

The contact addresses for our customer service can be found on the back of the envelope.

8 Disposal



Caution

Your Solar-Log[™] contains electronic components that can release highly toxic substances if burned or disposed of via the domestic garbage disposal system.

 ▶ Be sure to dispose of the Solar-Log[™] in a recycling center as electronic scrap.

9 Technical data

Supply voltage	12V DC (24V DC max)
Energy consumption	approx. 3 watts
Power supply	External wall power supply 12V DC
Dimensions in cm	22.5 / 28.5 / 4 (W x H x D)
Housing	Plastic housing, passively ventilated
Interfaces	Ethernet RJ45 bushing 10/100MBit RS485/RS422 combined S0 impulse in/output (in accordance with DIN43864 and DIN62056) Reset buttons
Memory capacity	8 MB RAM + 2 GB SD RAM (internal only)
Protection class	IP 20 (exclusively for inside use)
Temperature range	-10°C to 50°C
Display	4 LEDs for status displays
Mounting	Wall mounted
Weight	0.61 kg

Glossary

Term	Meaning
Account	User account on a server into which the user must log with their name and password.
Арр	Abbreviation for application, programme
Back-up	Data back-up A method of archiving or to ensure against loss of data.
Browser, web browser	Programme used to display internet sites in the worldwide web
Derating	Loss in power of an electronic component depending on the surrounding temperature, e.g. decrease in output delivered in order to protect against overheating.
DHCP	Dynamic Host Control Protocol. Characteristic setting in local networks in which the IP addresses for the connected devices are assigned by the router.
Firmware	Operating system for your device
Gateway	Router that serves as a "gateway" for network access from outside, e.g. via the internet.
iOS	iOS is an operating system from Apple for mobile devices.
IP address	Network address for the device. Each device in the network is identified by its own number. This number consists of four blocks of maximum three figures. The network address is usually assigned by the router.
Local network	Several computers or network-compatible devices that exchange data with one another within a closed area.

Glossary

Term	Meaning
MPP	The Maximum Power Point (MPP) is the point of maximum output. It is not constant but depends on the irradiation intensity, the temperature and the type of solar cells.
PDA	Personal Digital Assistant, a form of mobile computer
Server	Computer in the local network or internet which provides the available data to authorised users.
SMS	Short Message Service. Transfer of short messages in text form. They can be received by numerous types of mobile phones.

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Non-compliance resulting in contradiction of the above-mentioned specifications shall result in obligation to provide compensation for damages.

All of the brands mentioned in these instructions are the property of the respective manufacturer and hereby recognised as such.



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