

Dataloggers FAQ

How to set up third party data loggers

Applicable to: Third party data loggers

Supported data loggers:



Bluelog XC/XM



Supports
Sungrow
2-250kW
PV-String inverters



Solar-Log Base



Supports
Sungrow
2-250kW
PV-String inverters



EnergyBase.Box



Supports
Sungrow
2-20kW
PV-String inv.

1. Bluelog XC/XM

Please update the data logger to the latest firmware version.
At least Firmware \geq 17.1.7, Driver \geq 17.2.8, Controller \geq 3.4.0

Update

Update your data logger through update server. When updating the Firmware or Driver package no data will get lost as well as the configuration of the device will remain.

Check update server

Package	Installed	Available	Update
Firmware	17.1.7	17.1.7	Initiate update
Driver	17.2.8	17.2.8	Initiate update
Controller	3.4.0	3.4.0	

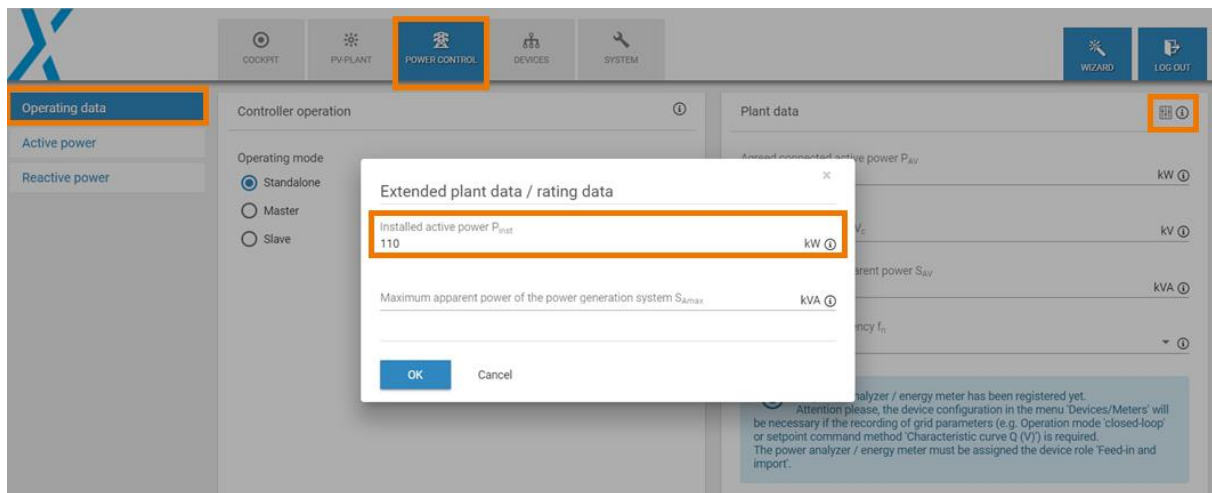
Software licences

Please enable "Power Control" license

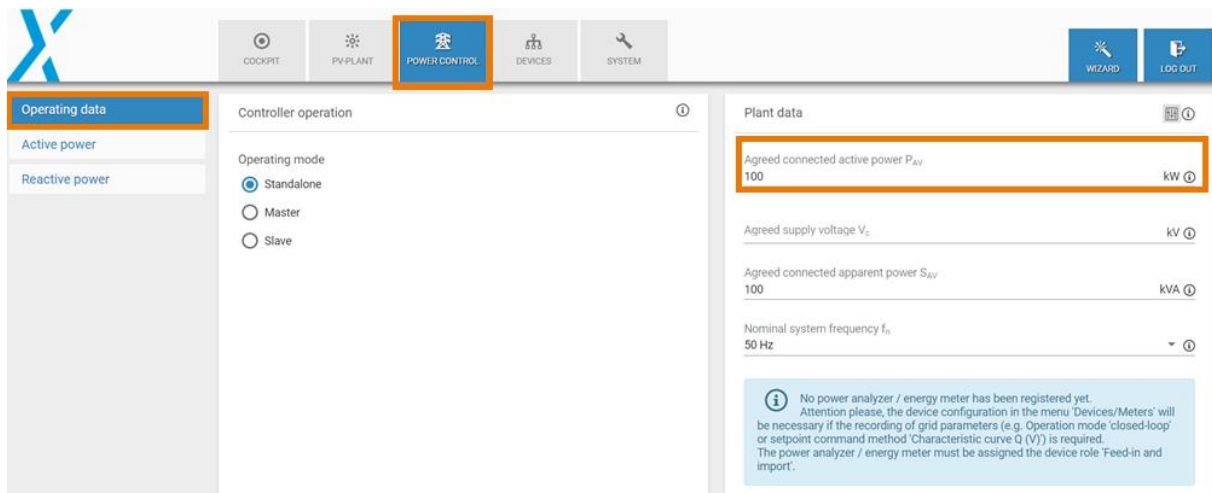
Installed licences

Maximum power	1,000 kW
Maximum number of devices	30
Power Control	✓
Power Control via Modbus	✗
Remote Power Control (RPC)	✗
Zero Feed-In (Automatic grid disconnection)	✗
SCADA	✗
FTP-Push	✗
OpenVPN	✗
IT infrastructure (LDAP, SSL, SCEP)	✗
WEBlog Slave mode	✗
Modbus configurator bluelog XM / XC licence	✗

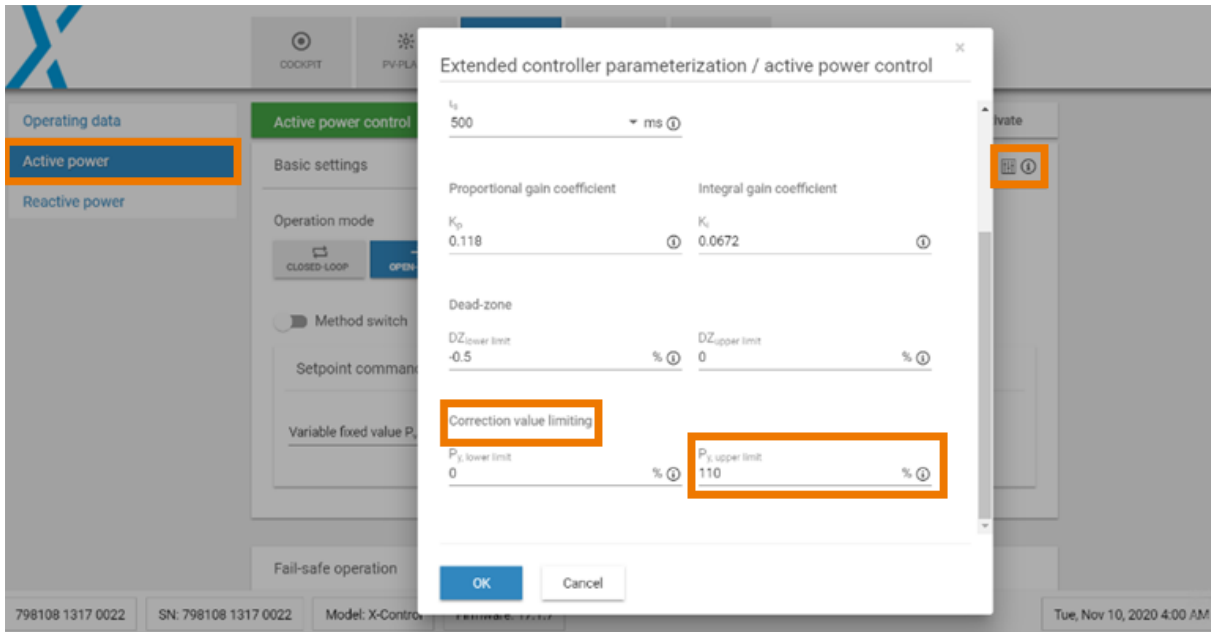
Please set the Installed active power of the plant.



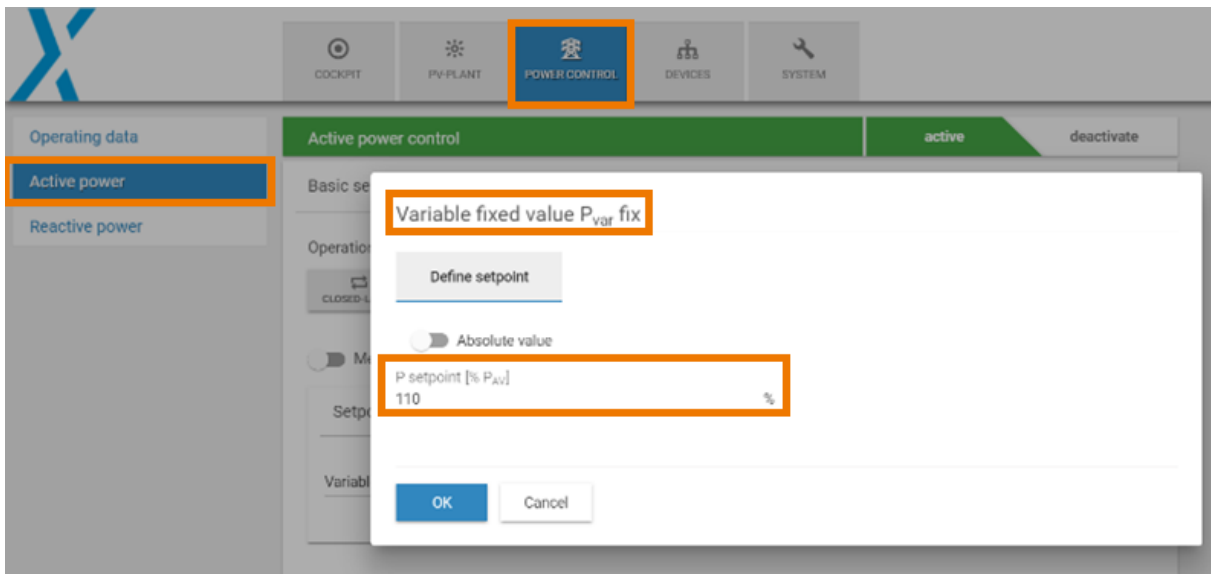
Please set the agreed connected active power of the plant. (less than Installed active power of the plant)



For SG33/40/50/110CX/250HX, please set the Correction value limiting to 110%.



For SG33/40/50/110CX/250HX, please set the P setpoint % to 110%.



For SG33/40/50/110CX/250HX, please check whether the Correction value is set to 110% successfully.

The screenshot shows the Sungrow power control interface. At the top, there is a navigation bar with five tabs: COCKPIT, PV-PLANT, POWER CONTROL (highlighted with an orange border), DEVICES, and SYSTEM. Below the navigation bar, the main content area is divided into two sections. On the left, there is a sidebar with three menu items: Operating data, Active power, and Reactive power. On the right, the 'P controller operation' section is displayed, containing a table with the following data:

Setpoint value	110.000 % / 110.000 kW
Actual value	-- % / -- kW
Correction value	110.000 %
Source	$P_{var, fix}$
Operation mode	Normal operation

2. Solar-Log Base

Please update the data logger to the latest firmware version.
At least Firmware \geq 5.1.0_154

Configuration / System / Firmware

ACCESS CONTROL HTTPS LANGUAGE/COUNTRY/TIME LICENCES **FIRMWARE**

Status

Installed version

Important notice

As new firmware-versions may change existing functions and/or require changes to the configuration, it is necessary to be informed about the changes to ensure the reliable operation of the device.

Important notices are usually especially mentioned in the beginning of the release notes.

If several firmware-versions were available between the currently used version and the version that is to be installed, then all notices of the versions in between apply.

Current firmware versions and related notices can be found on our homepage under downloads.

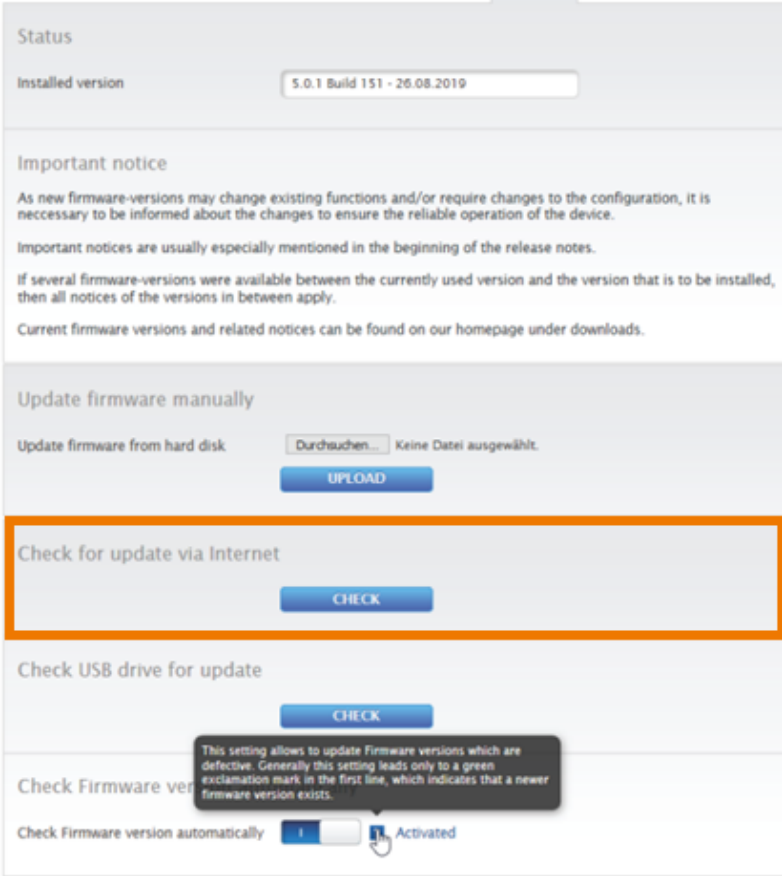
Update firmware manually

Update firmware from hard disk Keine Datei ausgewählt.

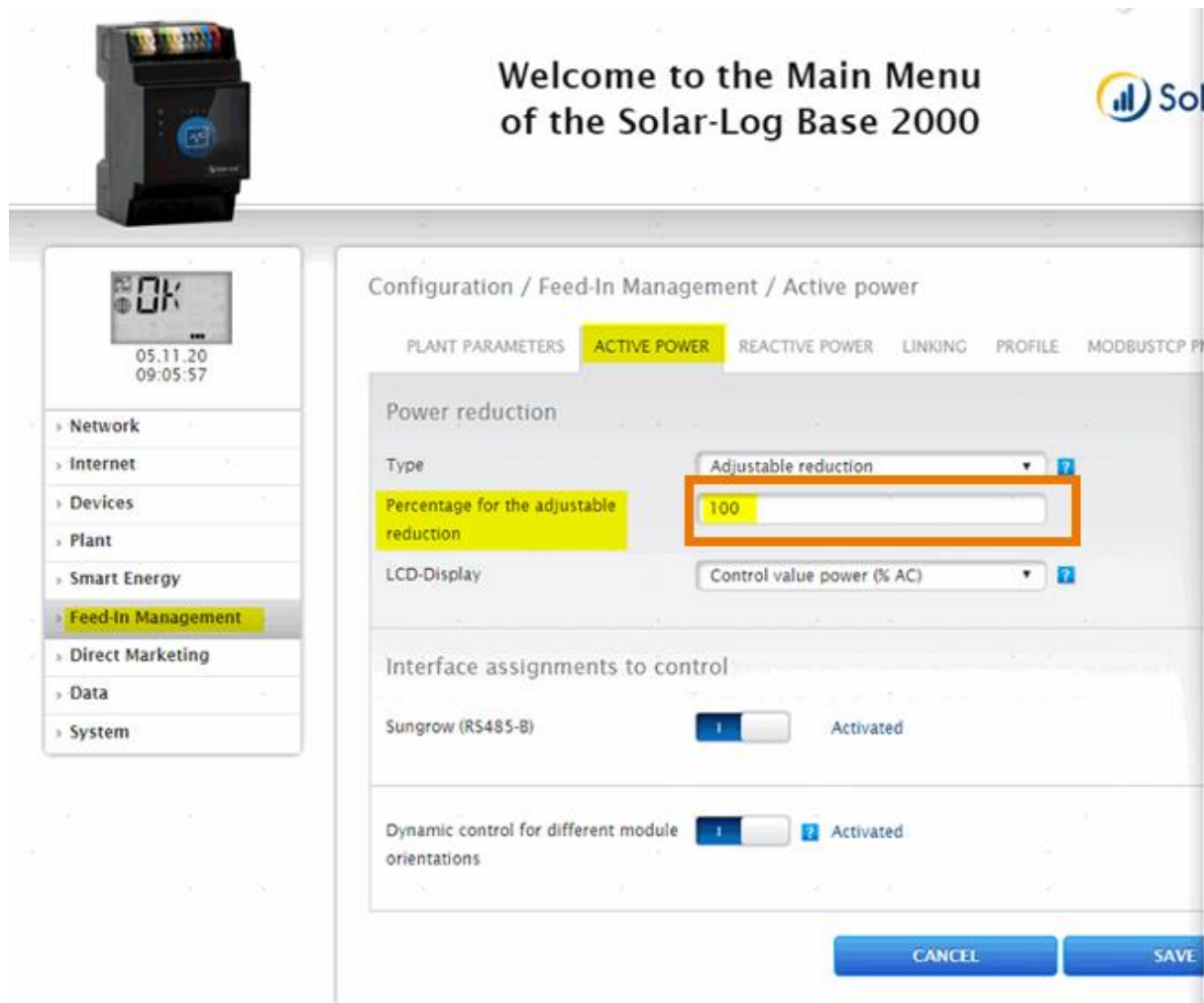
Check for update via Internet

Check USB drive for update

Check Firmware version automatically Activated



Please set the active power value limiting max. to 100%.



The screenshot displays the 'Welcome to the Main Menu of the Solar-Log Base 2000' interface. On the left, a physical device is shown above a navigation menu with options like Network, Internet, Devices, Plant, Smart Energy, Feed-In Management (highlighted), Direct Marketing, Data, and System. The main panel is titled 'Configuration / Feed-In Management / Active power' and includes sub-tabs for PLANT PARAMETERS, ACTIVE POWER (highlighted), REACTIVE POWER, LINKING, PROFILE, and MODBUSTCP P. Under 'Power reduction', the 'Type' is set to 'Adjustable reduction', and the 'Percentage for the adjustable reduction' is set to '100'. The 'LCD-Display' is set to 'Control value power (% AC)'. Below, 'Interface assignments to control' shows 'Sungrow (RS485-B)' and 'Dynamic control for different module orientations' both as 'Activated' with toggle switches. 'CANCEL' and 'SAVE' buttons are at the bottom right.

Please check whether the inverter allowed power is set to its max active power successfully.

The screenshot shows the Solar-Log interface with the following configuration details:

Power reduction

- Reduction type determined by:
- Reduction type:
- Value determined by:
- Target power output (%DC):

	Sungrow (RS485-B)	Total
Generator power (kW)	110.00	110.00
Maximum AC power (kW)	100.00	100.00
Allowed power (kW)	110.00	110.00
Consumption (kW)	0.00	0.00
Control value AC power (kW)	100.00	---
Current power output (kW)	0.00	0.00
Control value power (% AC)	100.00	---
Current power output (% AC)	0.00	0.00
Feed-in power (% DC)	0.00	0.00

Reactive power control

- Reactive power determined by:
- Reactive control type:
- Value determined by:
- Secondary type of reactive power control:

3. EnergyBase.Box

No additional configuration needed.



iSolarCloud App

This manual is intended for professional technicians who are responsible for installation, operation, maintenance and troubleshooting of inverters, and users who need to check inverter parameters. The inverter must only be installed by professional technicians.

The professional technician is required to meet the following requirements:

- Know electronic, electrical wiring and mechanical expertise, and be familiar with electrical and mechanical schematics.
- Have received professional training related to the installation, commissioning and troubleshooting of electrical equipment.
- Be able to quickly respond to hazards or emergencies that occur during installation, commissioning and troubleshooting.
- Be familiar with local standards and relevant safety regulations of electrical systems.
- Read this manual thoroughly and understand the safety instructions related to operations.