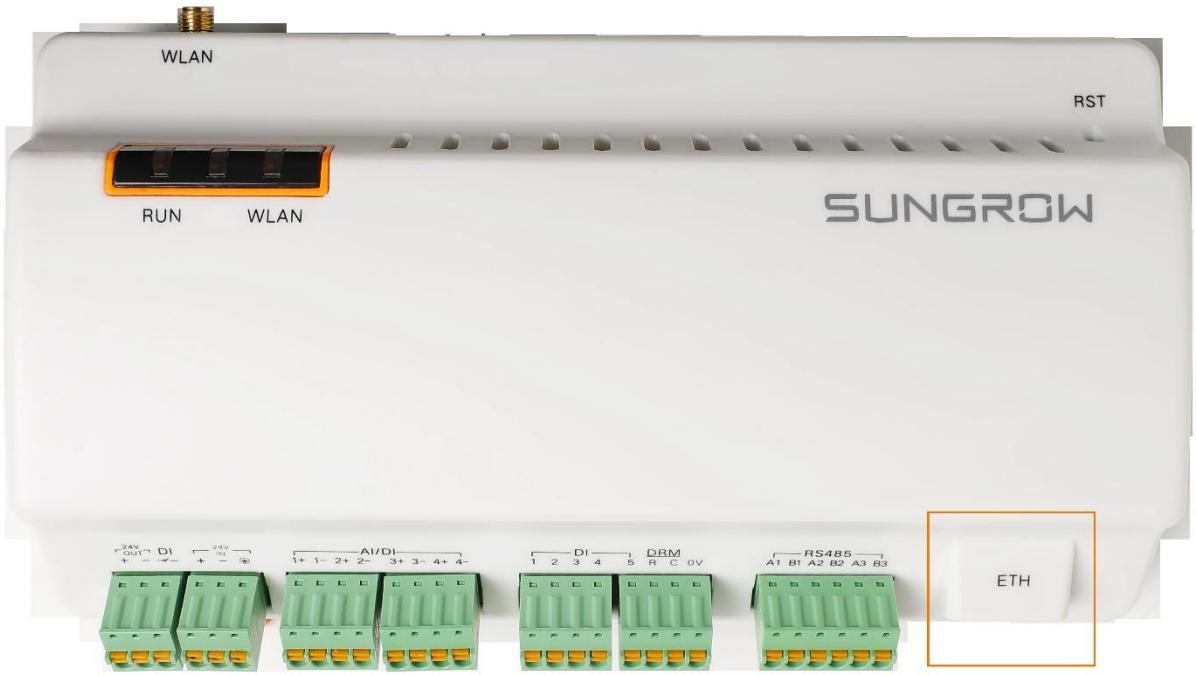
Data Logger FAQ

How to enable Sunspec power limitation

Applicable to: Logger1000

1. Electrical connection
   Sunspec- commands can be transmitted through the data logger Ethernet port. All inverters, connected to the data logger will be affected by the Sunspec commands within 5s.



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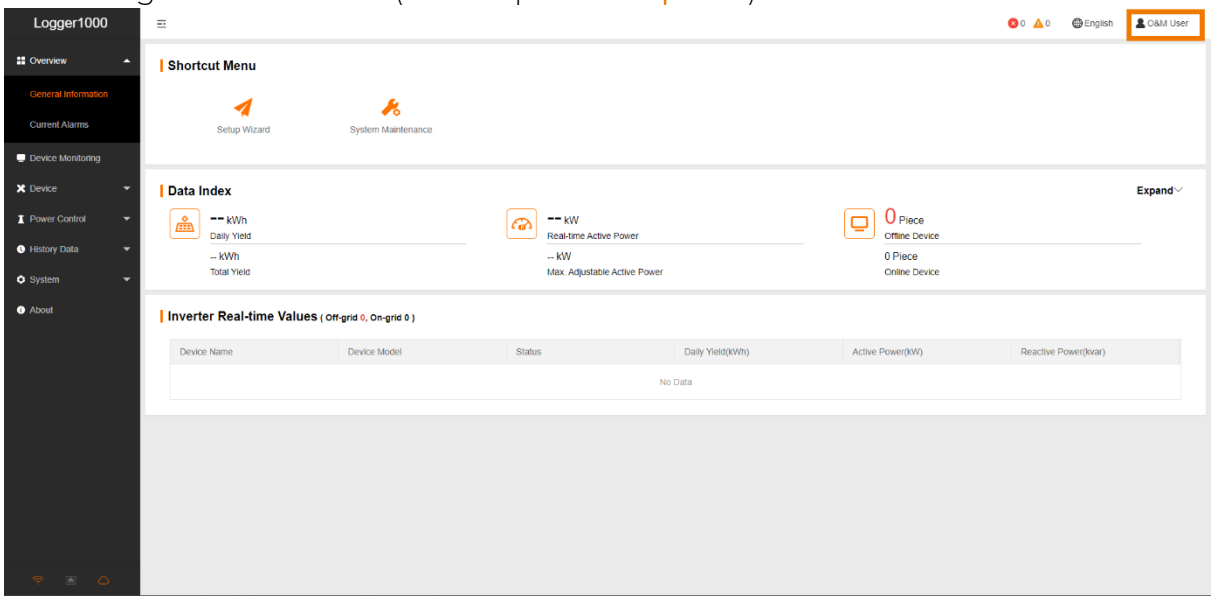
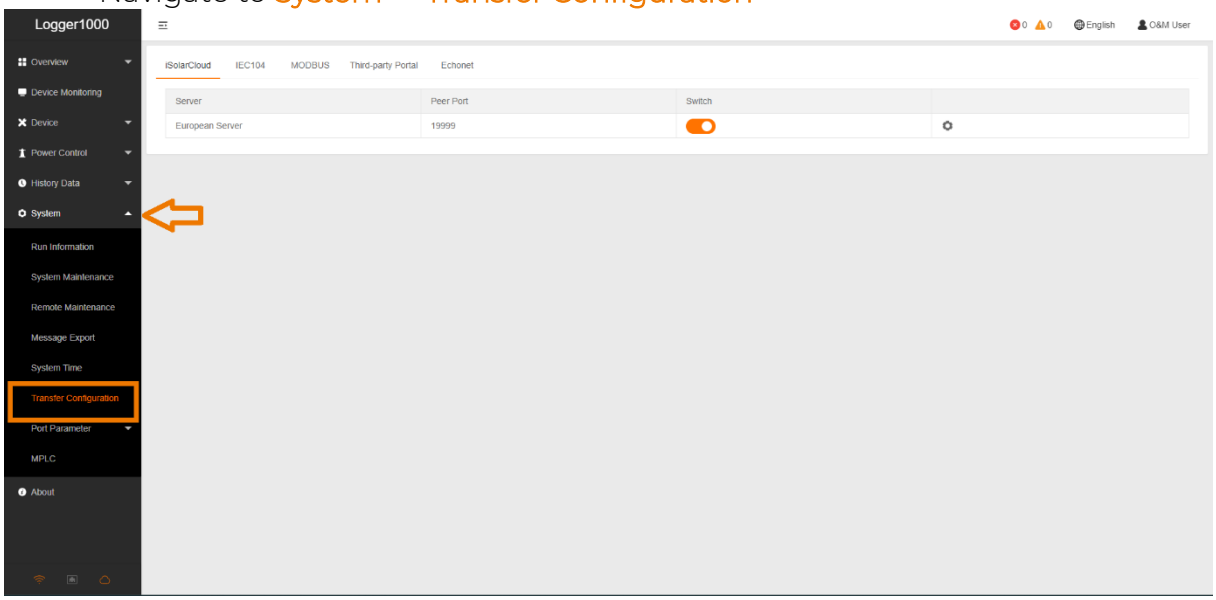
2. Logger settings

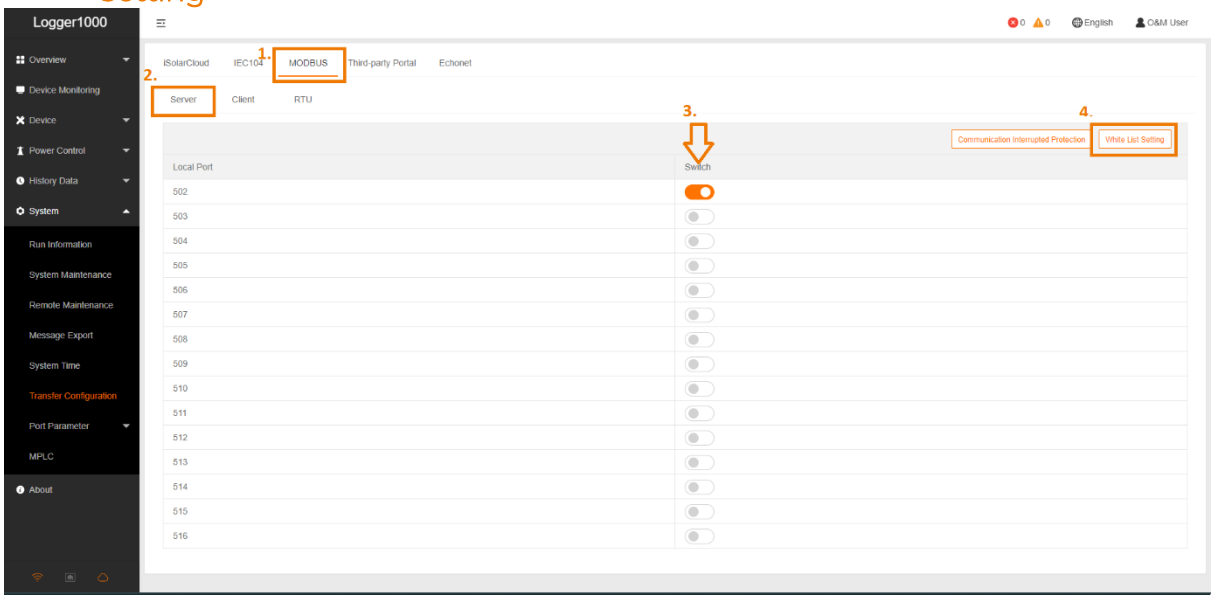
Log-in as O&M User (default password pw1111)



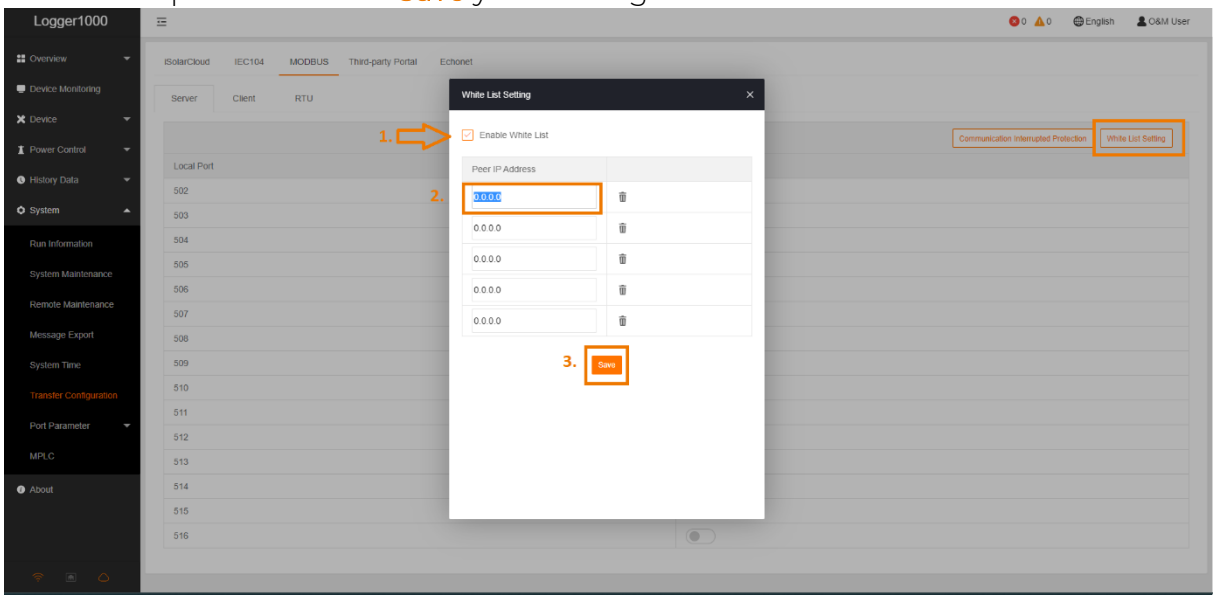
Navigate to System -> Transfer Configuration



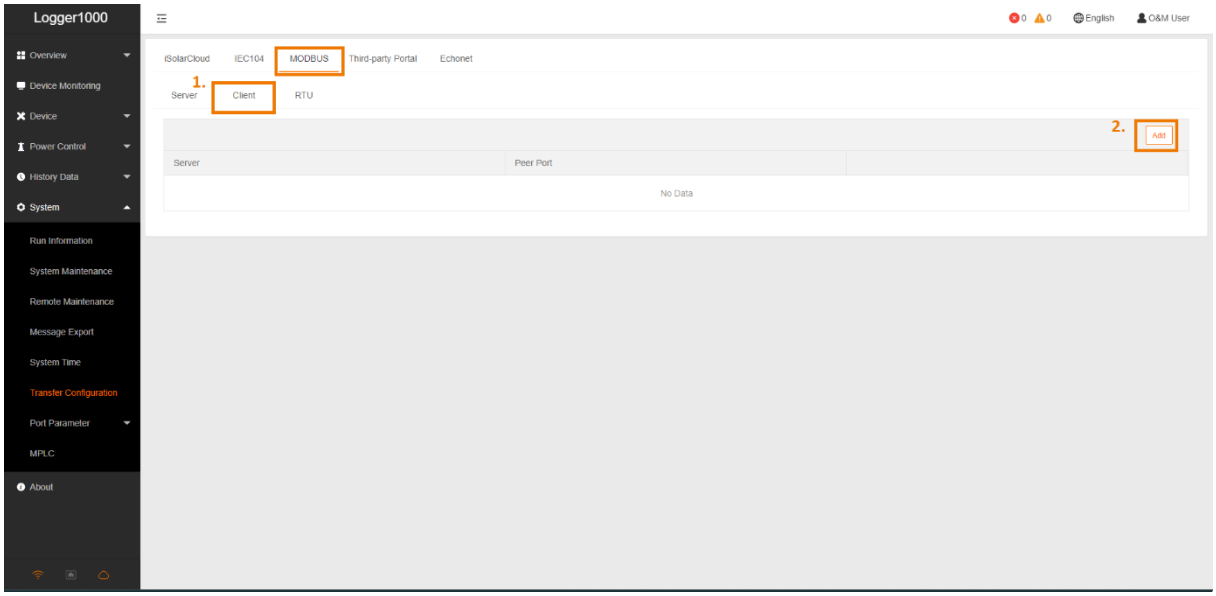
Select MODBUS -> Server and activate a port number, open the White List Setting



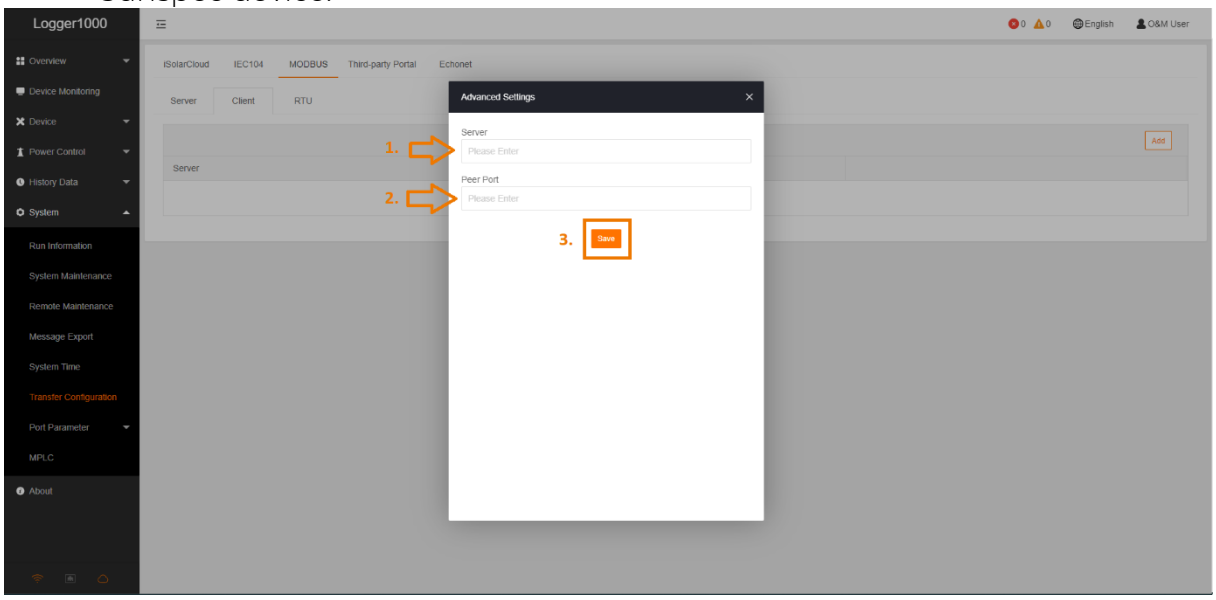
Enable White List by clicking the box, insert the IP address of your external Sunspec device and Save your settings



Select Client -> Add.



Insert Domain/URL as Server and set up port number of your external Sunspec device.



3. Supported Sunspec Group/Point Name

Description	Address	Point Name	Value	r/w
Operating State	40073	St	OFF ON	read
Active Power	40080	W		read
Apparent Power	40081	VA		read
Reactive Power	40082	var		read
Total Energy Injected	40089	TotWhInj		read
Active Power Max Rating	40227	WMaxRtg		read
ReactivePower Inj. Rating	40223	VarMaxInjRtg		read
ReactivePower Abs Rating	40234	VarMaxAbsRtg		read
Limit Max Active Power %. Enable	40291	WMaxLimPctEna	0-Disable 1-Enable	r/w
LimitMax Active Power Setpoint	40292	WMaxLimPct	0-100	r/w
Set Active Power Enable	40299	WSetEna	0-Disable 1-Enable	r/w
Set Active Power Mode	40300	WSetMod	1-WATTS	r/w
Active Power Setpoint	40301	WSet	0-12000	r/w
Set Reactive Power Enable	40312	VarSetEna	0-Disable 1-Enable	r/w
Set Reactive Power Mode	40313	VarSetMod	1-Var_Max_PCT 4-VARS	r/w
Reactive Power Setpoint	40315	VarSet		r/w
Reactive Power % Setpoint	40319	VarSetPct	-100 – 100	r/w
Operation Control	40352	OpCtl	0-STOP 1-START	r/w

4. Supported SUNGROW devices

According to Polish requirements, PV plants > 10 kVA, must support Sunspec integration, following SUNGROW inverters apply:

- SG10KTL-M/12KTL-M/SG15KTL-M/SG20KTL-M
- SG33CX/SG40CX/SG50CX
- SG110CX
- SG10RT/SG12RT/SG15RT/SG17RT/SG20RT

Following SUNGROW data loggers support Sunspec power limitation:

- Logger1000/COM100E

For further information, please download the user manual here.

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.

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