

## Inhoud

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## 1. Modbus TCP

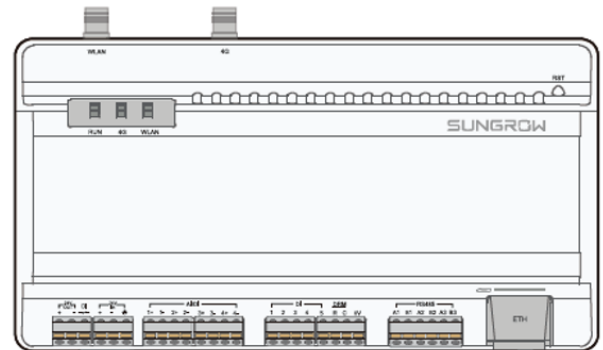
De Sungrow logger is recommended to connect through Modbus TCP.  
The Modbus TCP installation requires UTP cable from the interface to the Flexbox.  
For extending the interfaces with Modbus TCP, a 24v switch is needed.

The data transfer for this interface goes with the IP address.  
This IP address needs to be set on fixed.

## 2. Installation

The UTP cable needs to be in the interface and in the 24v switch, which is connected to the Flexbox.

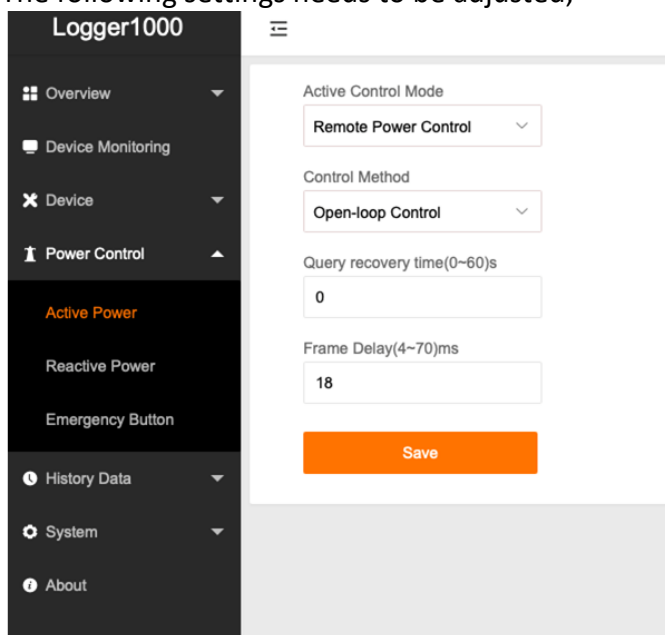
The UTP cable needs to be connected in the ethernet port which can be found on the right bottom side off the logger.



Once the Sungrow logger has been connected to the Flexbox, the logger can be configured. The IP address needs to be configured in the same range as the IP address off the Flexbox. The IP address of the Flexbox can be found through an IP scanner or through CMD on your Windows laptop. Example: 192.168.1.xxx or 10.10.20.xxx

When you have the IP address, open your browser and fill it in. The Web page off the Sungrow logger will be shown. The standard password off the logger is pw1111.

The following settings needs to be adjusted;



Also the following settings needs to be adjusted:

Port 502 needs to be set to on.

After that, go to the white list settings and configure the IP address off the flexbox in the settings. In this way, they can communicate with each other.

The screenshot shows the Logger1000 web interface. The left sidebar contains a navigation menu with items like Overview, Device Monitoring, Device, Power Control, History Data, System, Run Information, System Maintenance, Remote Maintenance, Message Export, System Time, Forwarding Configuration, and Port Parameter. The main content area is titled 'MODBUS' and has tabs for 'Server', 'Client', and 'RTU'. The 'RTU' tab is active. Below the tabs, there are two buttons: 'Communication Interrupted Protection' and 'White List Setting'. A table with two columns, 'Local Port' and 'Switch', is displayed. The table lists ports from 502 to 512. The 'Switch' for port 502 is turned on (orange), while all other ports have their switches turned off (grey).

Local Port	Switch
502	<input checked="" type="checkbox"/>
503	<input type="checkbox"/>
504	<input type="checkbox"/>
505	<input type="checkbox"/>
506	<input type="checkbox"/>
507	<input type="checkbox"/>
508	<input type="checkbox"/>
509	<input type="checkbox"/>
510	<input type="checkbox"/>
511	<input type="checkbox"/>
512	<input type="checkbox"/>

### 3. Configuration

Configuration of an interface with the Oliva Flexbox will be done in the config file. The program Win SCP is necessary and the manual can be found on the portal.

In the config file, change the parameters which is shown below.

- Device ID are following up on each other in the config file
- Device type is filled in for the logger
- Manufacturer is Sungrow
- Address is where you fill in the IP address of the inverter(s)
- Unit ID does not need to be set
- Port becomes 502, necessary for Modbus TCP
- Protocol is Modbus TCP
- To activate the interface, set in use to TRUE

```
"sungrow_edmm": {  
  "device_id": [0,1,2,0,0,0,0,0,0,0],  
  "device_type": "edmm",  
  "manufacturer": "Sungrow",  
  "address": ["192.168.178.159", "", "", "", "", "", "", "", "", ""],  
  "unit_id": [0,0,0,0,0,0,0,0,0,0],  
  "port": 502,  
  "protocol": "modbus_tcp",  
  "in use": "FALSE"
```

## 4. Final check

After the configuration has been done, log in into the HMI and check the Sungrow EDMM page to see if the data is showing in the portal. If data is showing, the interface is installed correctly.

# EDMM - SMA

Type: Logger 1000

Inverter Limit: 100	%
Inverter limit: 0	W
Active power: 0	W

Connected devices: 14

Faulty devices: 0

Voltage: 0.0 V

Current 0.0 A

Max active power: 0.0 kW

Total Active power: 0.0 W

pv Generated: 0 W

pv Generated today: 0 W

subarray

inverters active: 