

Point Table Configuration

for Adding Third-party Meter via Logger1000

1. Integrated Meter

The parameters of the meters listed in the following table have been integrated in the SUNGROW Logger1000. Please find the specific models in the following table, which are subject to change without notice.

Integrated meters with Logger1000:

Brand	Meter module
Acrel	DTSD1352
	PZ96-E3
SFERE	PD194EZ
Janitza (RS485 A&B is reversed to logger RS485 A&B)	UMG104
	UMG604
Weidmüller (RS485 A&B is reversed to logger RS485 A&B)	EM610
	EM610
*Sungrow	DTSU666
*Schneider	IEM3255

* Available in Dec. 2020

2. Add Meter

2.1. Limitations

The meter that need to be connected to Logger1000 must support 485 communication protocol.

2.2. Login and Set Baud Rate

Step 1 Login

- 1) Enter the website address of “11.11.11.1” in the browser to enter the software address of Logger1000.
- 2) Click “Login” and then enter default password (pw1111) in the User Login dialog.

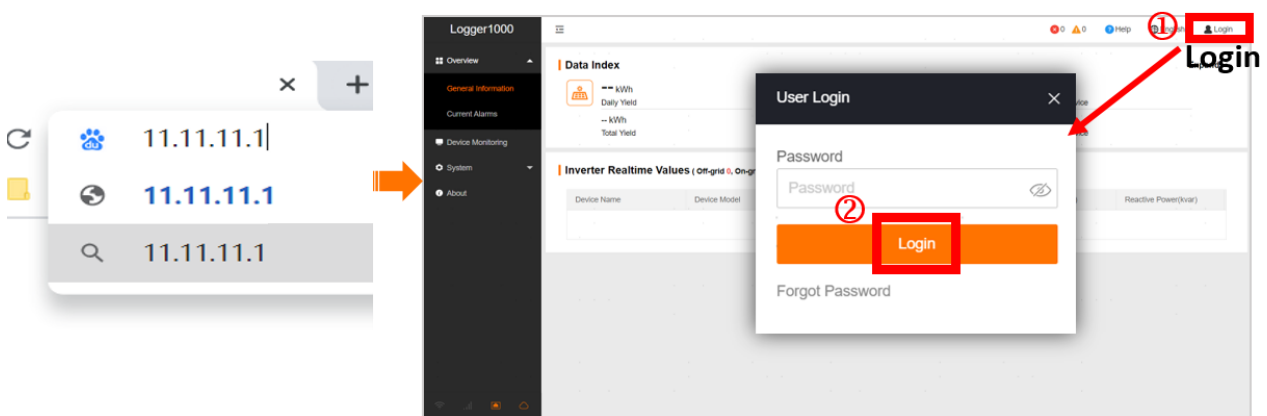


Figure 2-1 Login

Step 2 Set port parameter

The baud rate of the port (COM1/COM2/COM3) connected to the meter needs to be consistent with the baud rate of the meter (Refer to the user manual of the meter). If the meter is connected to the “Net” port, there is no need to set the baud rate.

- 1) Click “System” on the left list of the main page, and then click “Port Parameter” from the drop-down list.
- 2) Click “RS485” from the drop-down list to enter the port parameter setting interface.

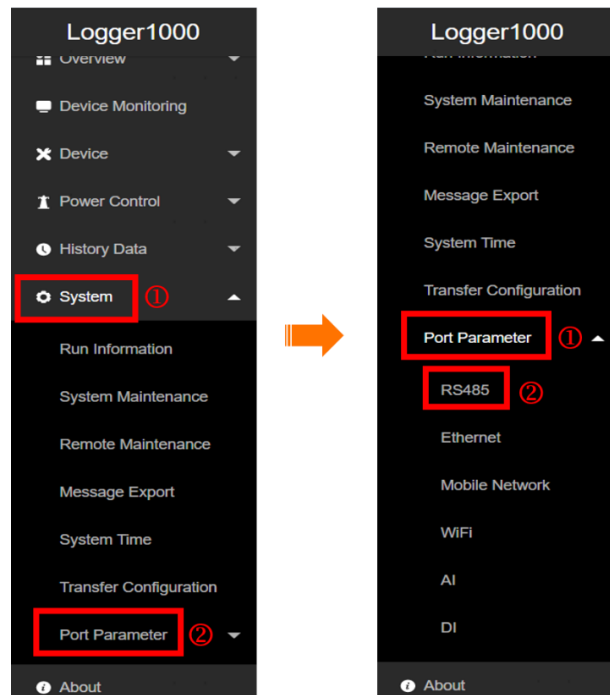


Figure 2-2 Port parameter

- 3) Click the “setting” icon of the port connected.
- 4) According to the parameters of the meter connected (Refer to the meter’s user manual), select the values of baud rate, parity bit and stop bit in the pop-up window, and then click “Save”.

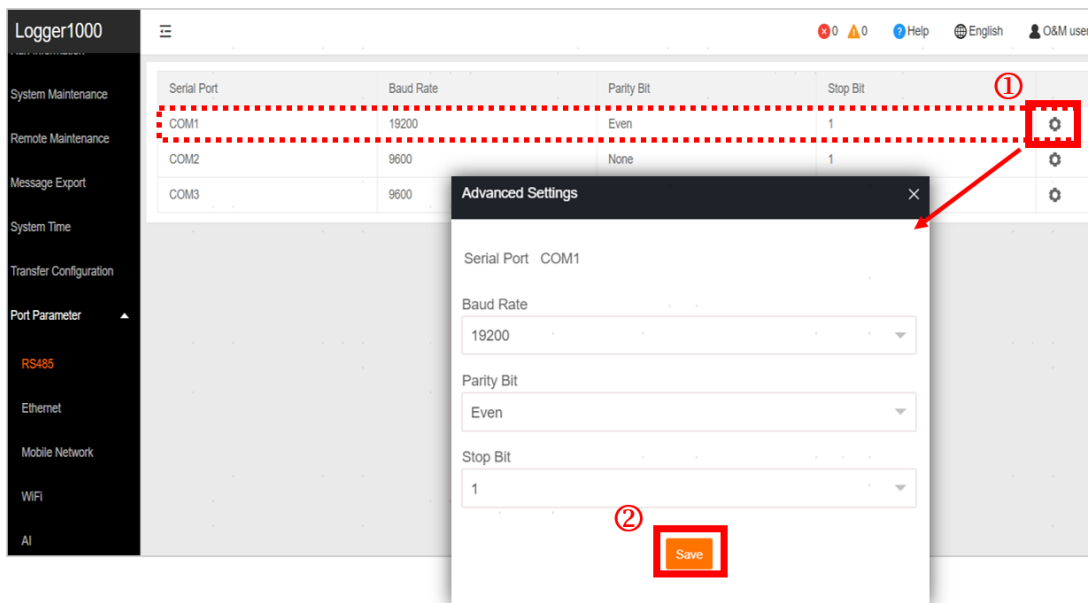


Figure 2-3 Set baud rate

2.3. Add the Compatible Meter

Step 1 Add device

- 1) Click “Device” on the left list of the main page, then select “Device List” from the drop-down list.
- 2) Click “Add Device” on the new interface.

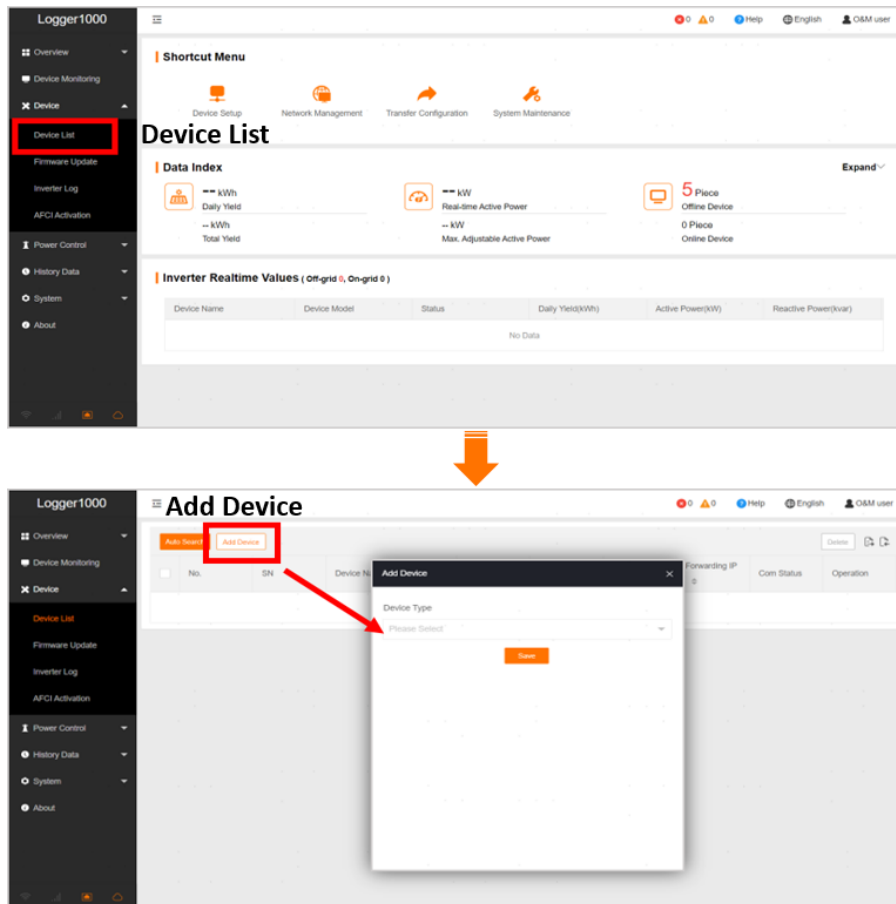


Figure 2-4 Login and add device

Step 2 Create new meter to be added

- 1) In the pop-up window, select “Meter” option in the “Device Type”.
- 2) Select the port (COM1/COM2/COM3/NET) that the meter is actually connected to in the “Port”.
- 3) Select the corresponding meter module in the “Device Model”.
- 4) Enter the value of “Beginning Address” and the “Quantity of Device”.

Note

Be aware of the number of device added in each port. When there are any devices existed in the Device List, the “Beginning Address” to be entered should bigger than the device address existed if they are in the same port.

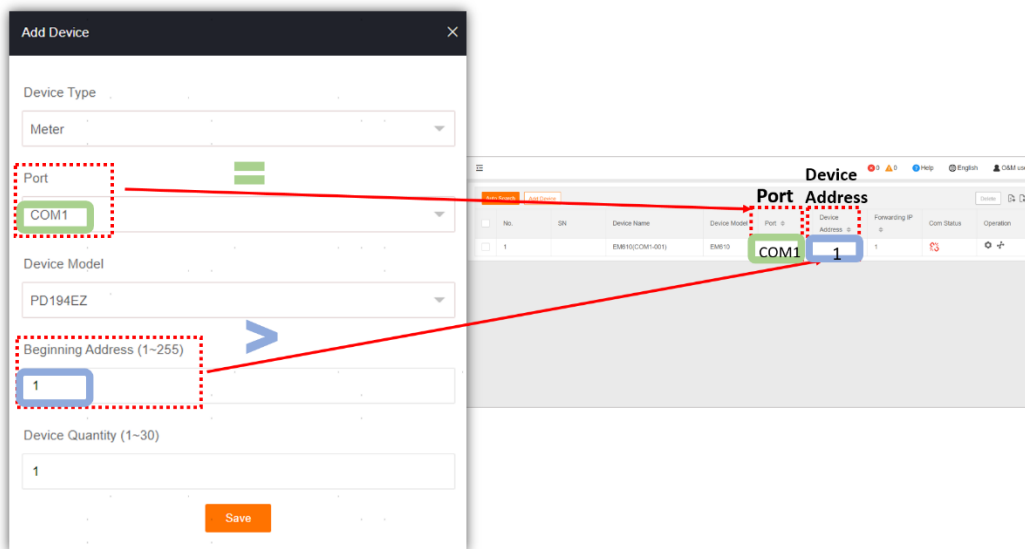


Figure 2-5 Create new meter

5) Click “Save”.

2.4. Add the Third-party Meter

2.4.1. Custom Configuration Method

Step 1 Add device

Refer to **PART 2.3. Step 1**

Step 2 Create new meter to be added

- 1) In the pop-up window, select “Meter” option in the “Device Type”.
- 2) Select the port (COM1/COM2/COM3/NET) that the meter is actually connected to in the “Port”.
- 3) Select “Others” option in the “Device Model”.
- 4) Select “Custom” option in the “Configuration method”.

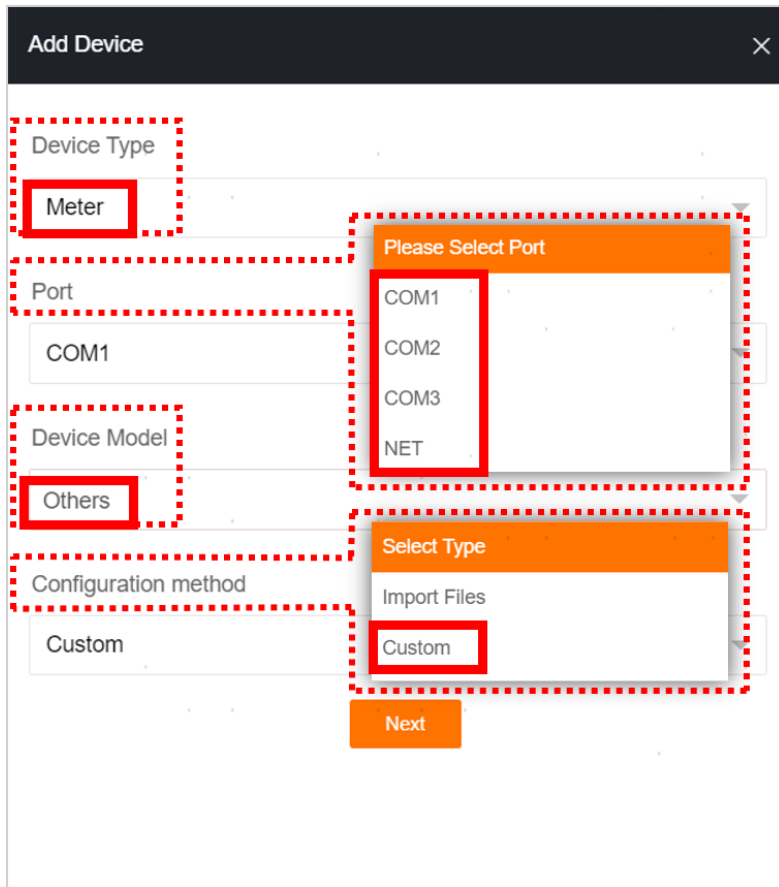


Figure 2-6 Create new meter with custom configuration method

Step 3 Create Point Table template.

- 1) Enter or select corresponding value of parameters in the pop-up window.

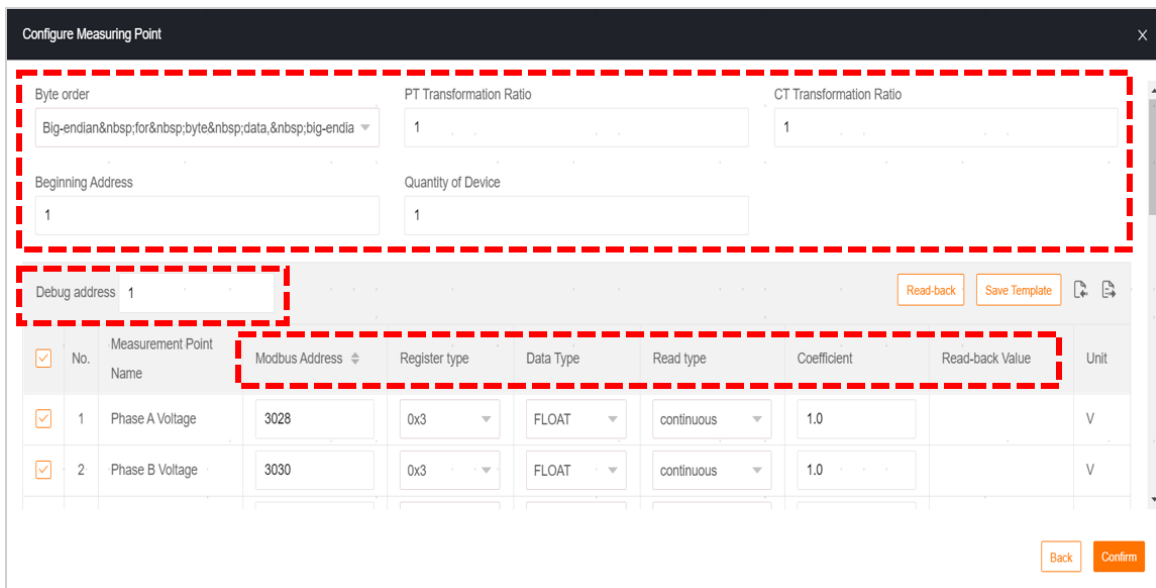


Figure 2-7 Parameter setting

Note

The user can select up to 21 objects for setting. Their corresponding parameters such as Modbus address please refer to the user manual of the connected meter.

Parameter Description

Byte Order	Refer to the communication protocol of the meter, parse the order of the read byte stream
PT Transformation Ratio	Refer to the communication protocol of the meter, voltage transformation ratio
CT Transformation Ratio	Refer to the communication protocol of the meter, current transformation ratio
Beginning Address	The beginning address of the device
Quantity of Device	The number of the meter
Debug Address	The device address to be read when click "Read-Back", the range is ["Beginning Address"), ("Beginning Address" + "Quantity of Device"-1)]
Modbus Address	Refer to the communication protocol of the meter, the address of Modbus communication protocol, priority to select the register address corresponding to the data type of "Float"
Register Type	Refer to the communication protocol of the meter, the register type of the corresponding measuring point
Data Type	Refer to the communication protocol of the meter, the data type of the corresponding measuring point
Read Type	With or without framing when send messages at this point, recommend to choose continuous type
Coefficient	Refer to the communication protocol of the meter, the coefficient that multiplied the value of the data read
Read-back Value	The value of the selected measuring point read when clicking "Read-back"

- 2) Select the points to be measured, click "Read-back" to read the information from the meter in real time to check the correctness of parameter setting.

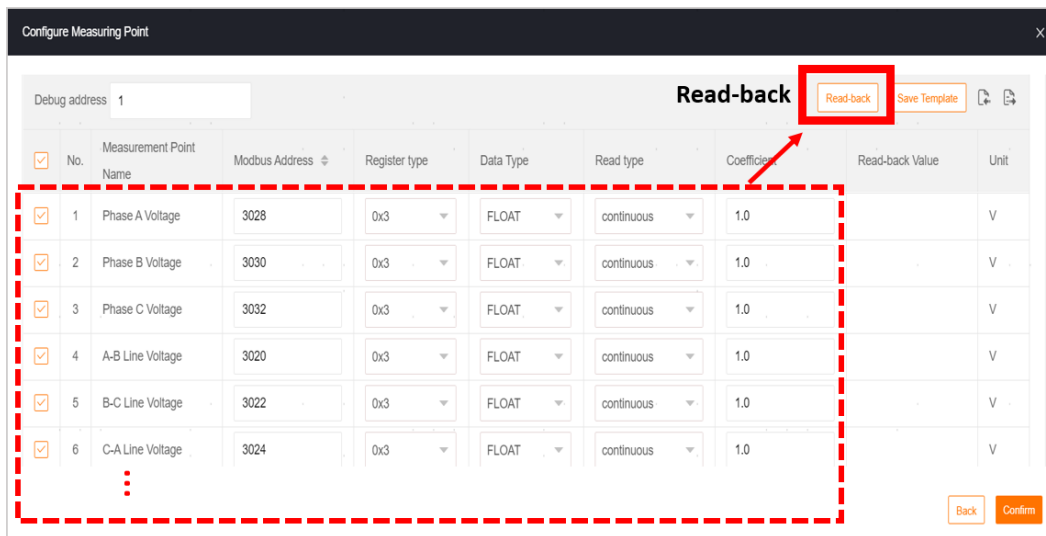


Figure 2-8 Read-back parameter value

Note

Only when the “Read-back Value” is consistent with the displayed value of the electric meter, the parameter setting of the measuring point is correct.

- When the “Read-back Value” is consistent with the displayed value of the electric meter, click “Save Template” to save the measuring point setting of this/these meter(s) as a template.

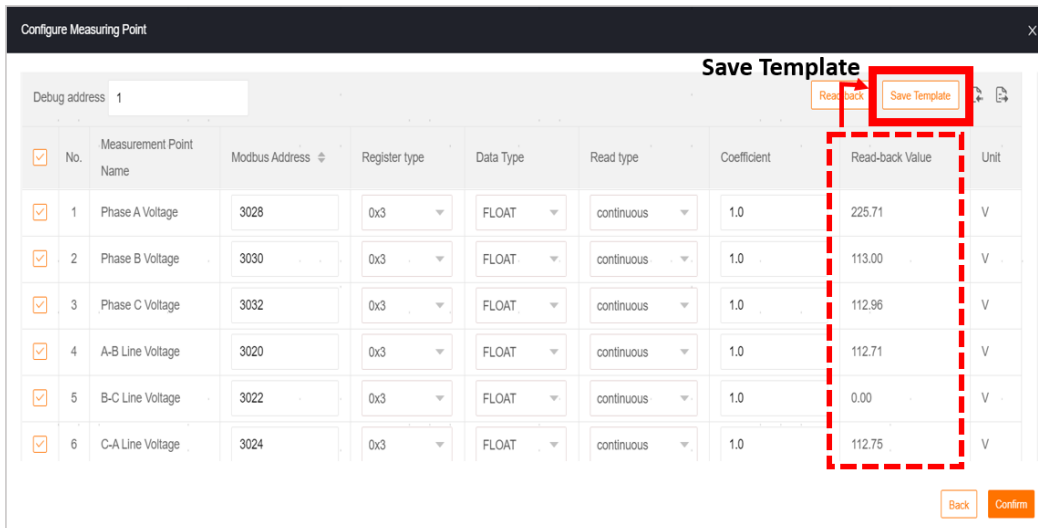


Figure 2-9 Check correctness

- Enter the template name in the pop-up prompt window and click “Confirm” on the prompt window to save the template. Click “Confirm” on the measuring point configuring window to add the device and save the setting.

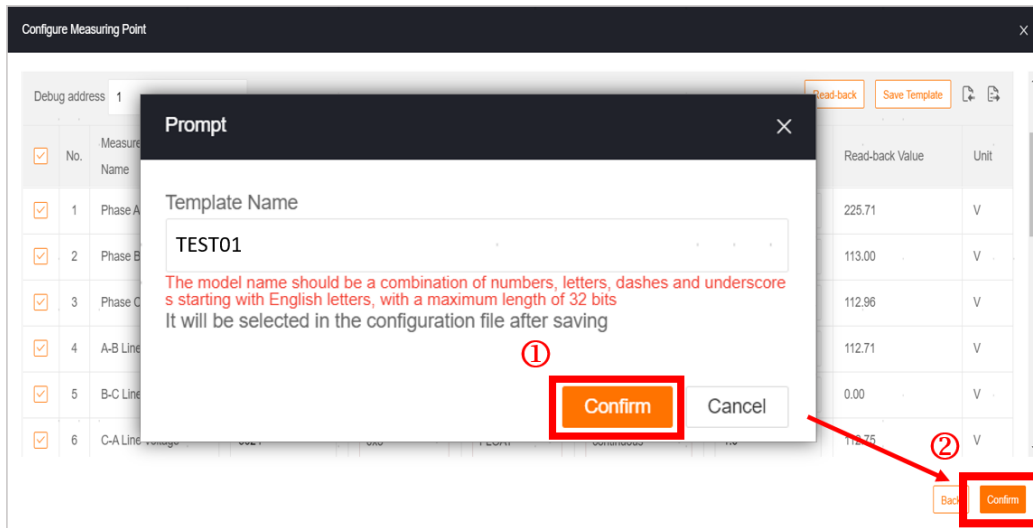


Figure 2-10 Template name

Note

The template name should be a combination of numbers, letters, dashes and underscores starting with English letters, with a maximum length of 32 bits.

2.4.2 Import Files Method

Step 1 Login and add device

- 1) Click “Add Device” to add new meter in the Device List interface.

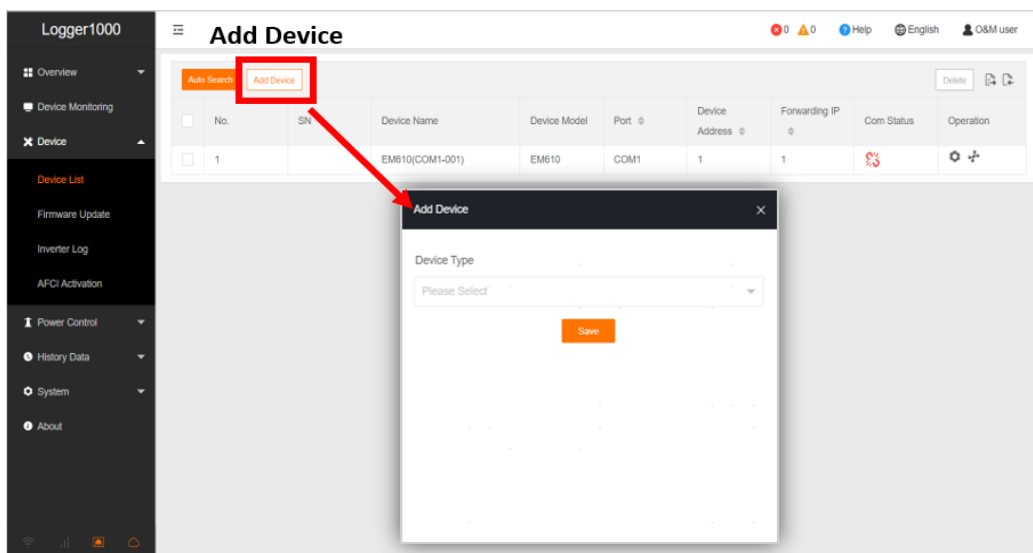


Figure 2-11 Add device

Step 2 Create new meter to be added

- 1) Select “Meter” option in the “Device Type”.

- 2) Select the port (COM1/COM2/COM3/NET) that the meter is actually connected to in the “Port”.
- 3) Select “Others” option in the “Device Model”.
- 4) Select “Import Files” option in the “Configuration method”.

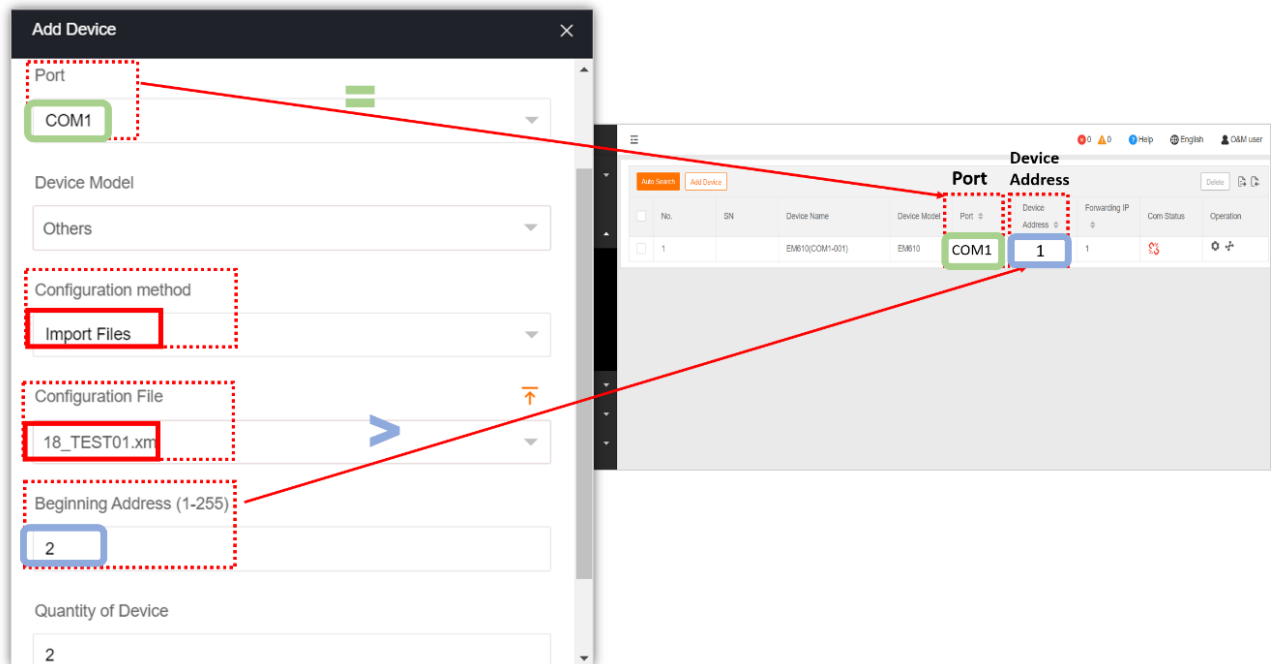


Figure 2-12 Import measuring point template

- 5) Select the corresponding measuring point template in the “Configuration File”.
- 6) Enter the value of “Beginning Address” and the “Quantity of Device”.

Note

Be aware of the number of device added in each port, the “Beginning Address” to be entered should bigger than the device address existed if they are in the same port.

- 7) Click “Save”.

3. Configure the Meter Added

3.1. Edit the Measuring Point template

Step 1 Login and configure measuring point

- 1) Click “Login” and then enter default password (pw1111) in the User Login dialog.

- 2) Click “Device” on the left list, then select “Device List” from the drop-down list.
- 3) Click the “tool” icon of the device of which the measuring point settings to be changed.

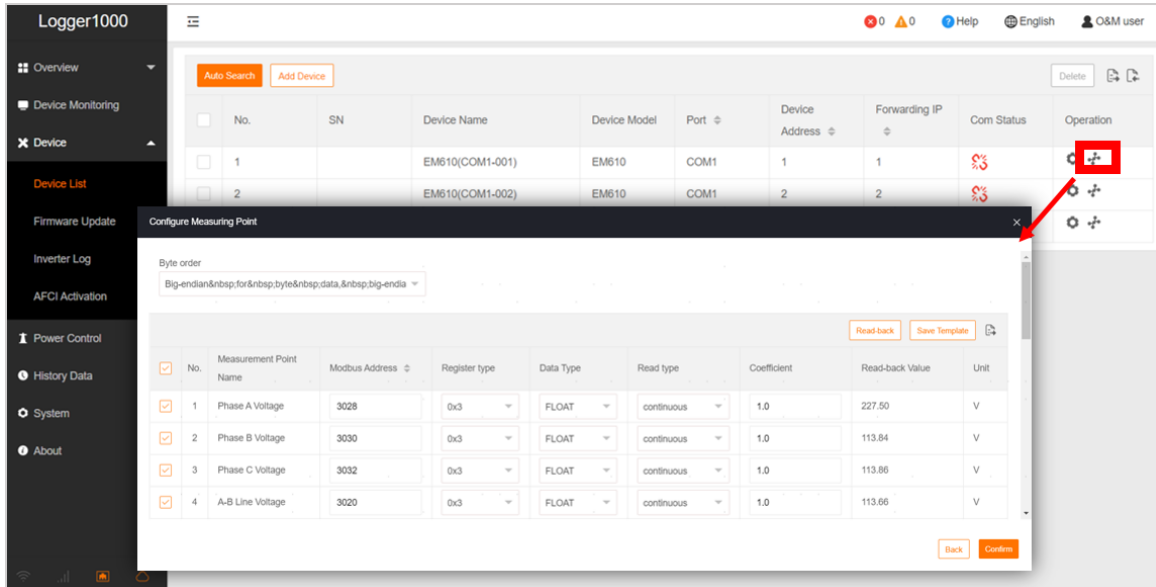


Figure 3-1 Configure measuring point

Step 2 Edit the measuring point parameters and create new template

- 1) Configure the parameters and then click “Save Template”.

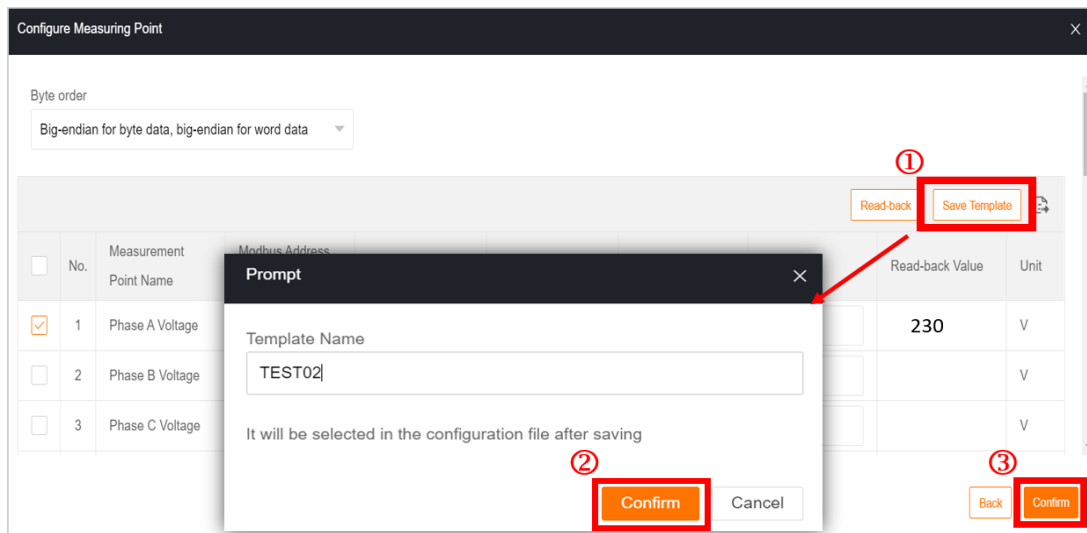


Figure 3-2 Save and apply the new template

- 2) Enter the template name in the pop-up prompt window and click “Confirm” on the prompt window to save as a new template.

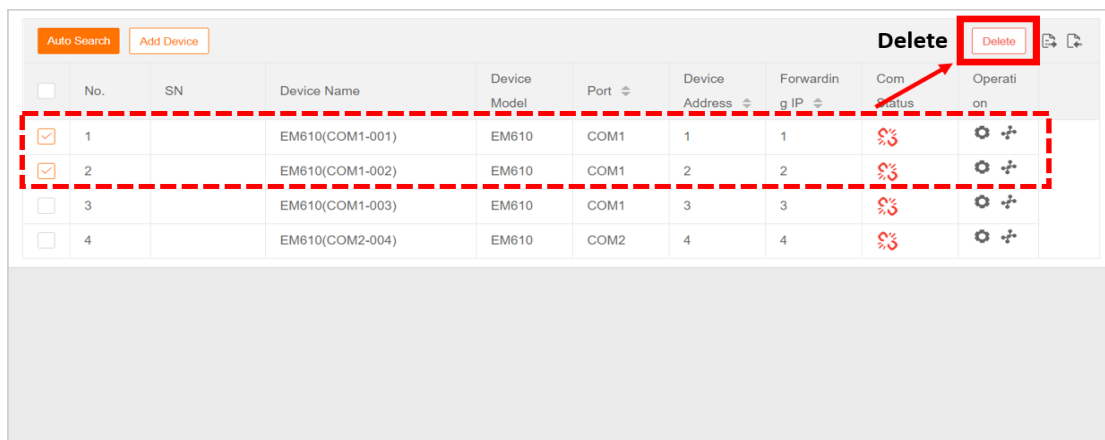
- 3) Click “Confirm” on the measuring point configuring window to apply the new template on the all devices that used this template before.

Note

The new template name should be different from the name of the old template just modified.

3.2. Delete the Meter Added

Select the device to be delete and then click “Delete” on the Device List interface.



<input type="checkbox"/>	No.	SN	Device Name	Device Model	Port	Device Address	Forwarding IP	Com Status	Operation
<input checked="" type="checkbox"/>	1		EM610(COM1-001)	EM610	COM1	1	1		
<input checked="" type="checkbox"/>	2		EM610(COM1-002)	EM610	COM1	2	2		
<input type="checkbox"/>	3		EM610(COM1-003)	EM610	COM1	3	3		
<input type="checkbox"/>	4		EM610(COM2-004)	EM610	COM2	4	4		

Figure 3-3 Delete the meter added