APSP Test Studio

User manual
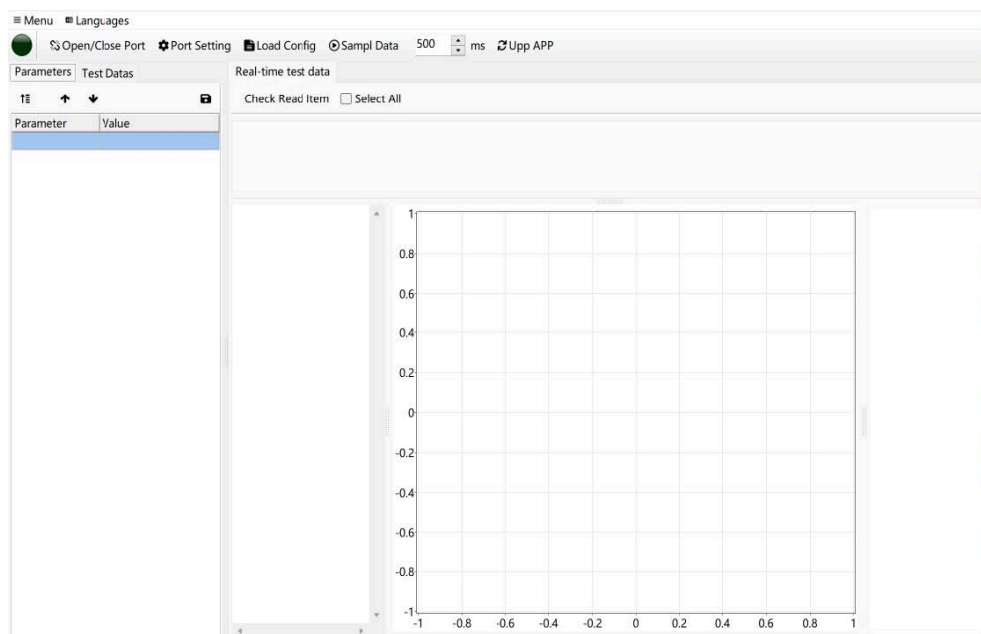
1   Software Setup

➢ Unzip the zipped file.

➢ There will be an executable file in the folder.

2   Run the software
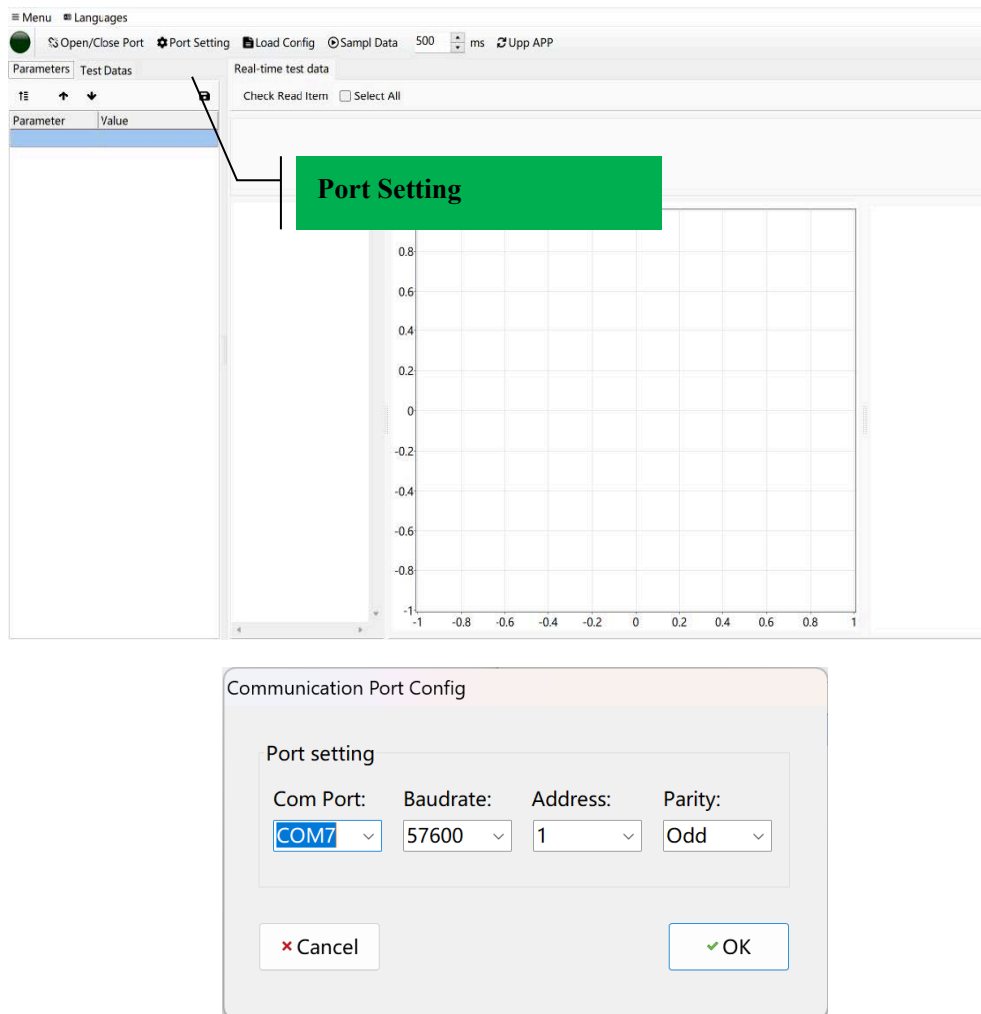
2.1   Open the software

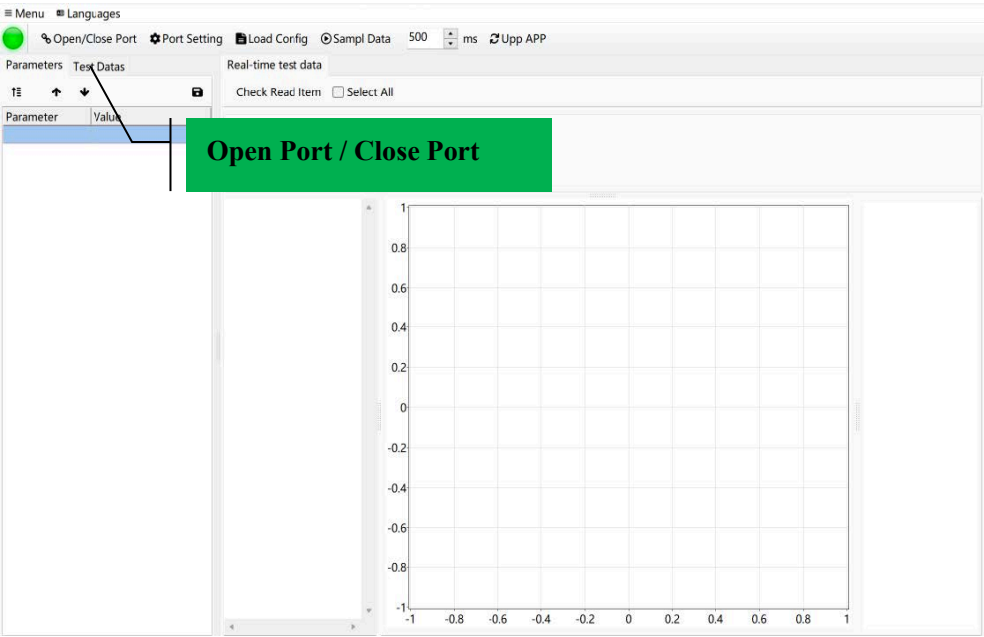Double click the "**AngstPfisterTestStudioForUser.exe**" icon, you will have the following window:

2.2 Port Setting

➢ Click the "**Port Setting**" button. "Communication Port Config " window will appear:
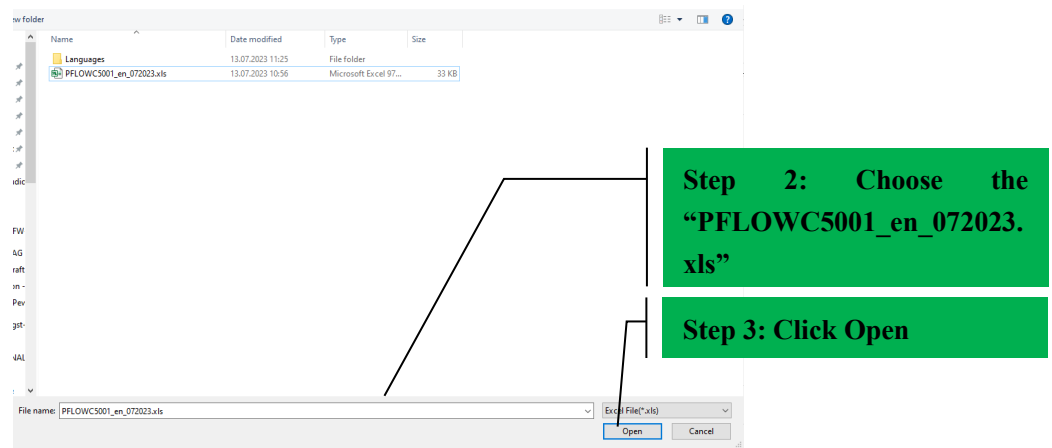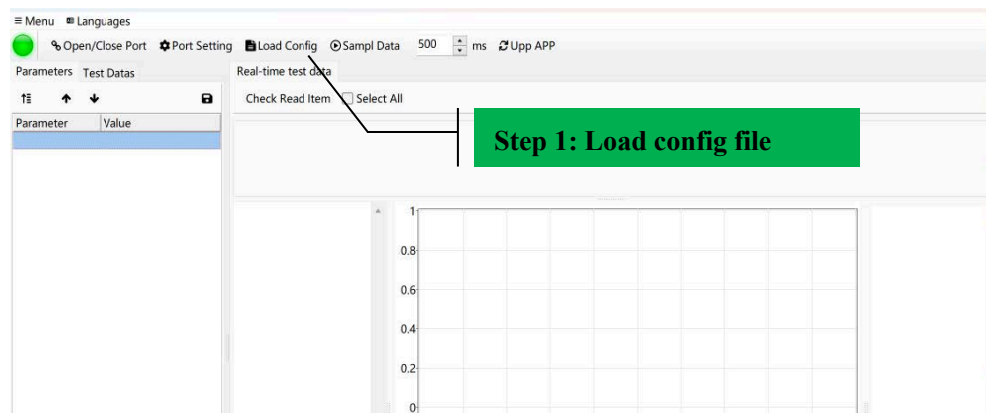

- ◆ Select the appropriate **COM port**；
- ◆ Select "**Baudrate**" to _**57600**_；
- ◆ Select "**Address**" to _**1**_ (default Modbus address);
- ◆ Select "**Parity**" to _**Odd**_;
- ◆ Click "OK" to finish the port setup.

2.3 Open Port / Close Port

3 Operation

3.1 Load config file

Step 1: Load config file

Step 2: Choose the "PFLOWC5001_en_072023. xls"

Step 3: Click Open

Then the parameters which can be set will be shown as below:

Set the selected parameter

Read the selected parameter

Read all parameters

Parameters can be set
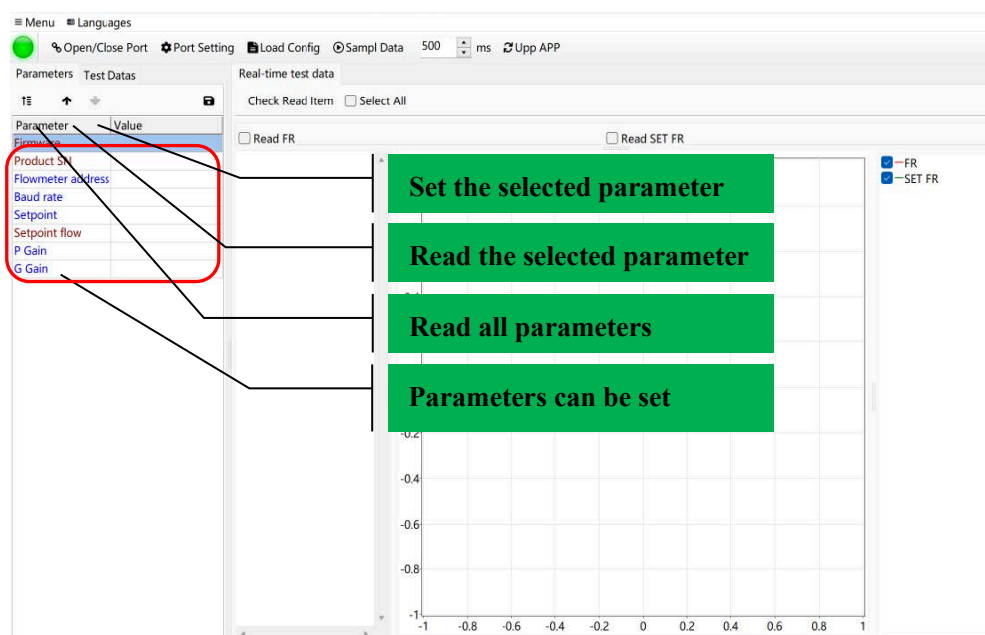
- ➢ Firmware: Firmware version [Read only];
- ➢ Product SN: Serial number of the product [Read only];
- ➢ Flowmeter address: The Modbus address, 1~247. Default value is 1;
- ➢ Baud rate: Communication baud rate; Available valve: 0 ~ 5.
  0 - 4800; 1 - 9600; 2 - 19200; 3 - 38400; 4 - 57600; 5 - 115200.
- ➢ Setpoint: Set the flow rate in percentage of the full-scale flow;
  Available valve: 0 ~ 65535.
  0 ~ 64000 corresponding to 0% ~ 100%.
- ➢ Setpoint flow: Read the current flow rate set by the user [Read only];
  Available valve: 0 ~ 110000, means of 0 ~ 110.000 SLPM.
- ➢ P Gain: PD proportional control of the valve/flow rate;
  Available valve: 0 ~ 9999. The default value is 150.
- ➢ G Gain: PD differential control of the valve/flow rate;
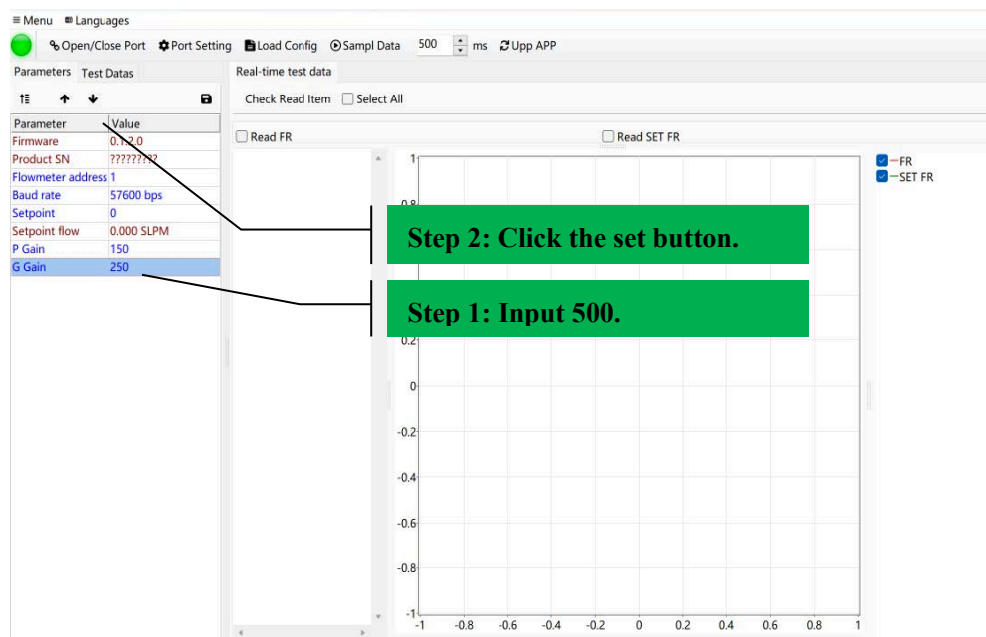 Available valve: 0 ~ 9999. The default value is 250.

3.2 Read all Parameters

Step 1: Click the read all parameters button.

Step 2: all parameters will be shown here.

3.3 Write (set) parameter

For instance: if you want to set the G Gain to 500:
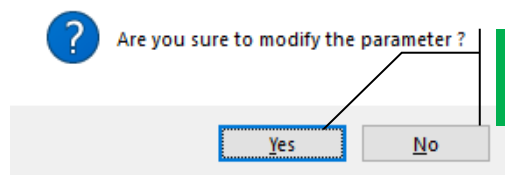
Note: When the parameter is set OK, please read out to do a double check.

3.4 Read Flow Rate

Step 3: Click the start button.

Step 2: Make sure "Read FR" is chosen.

Step 1: Set time interval.

Step 4: Flow rate will be shown here.
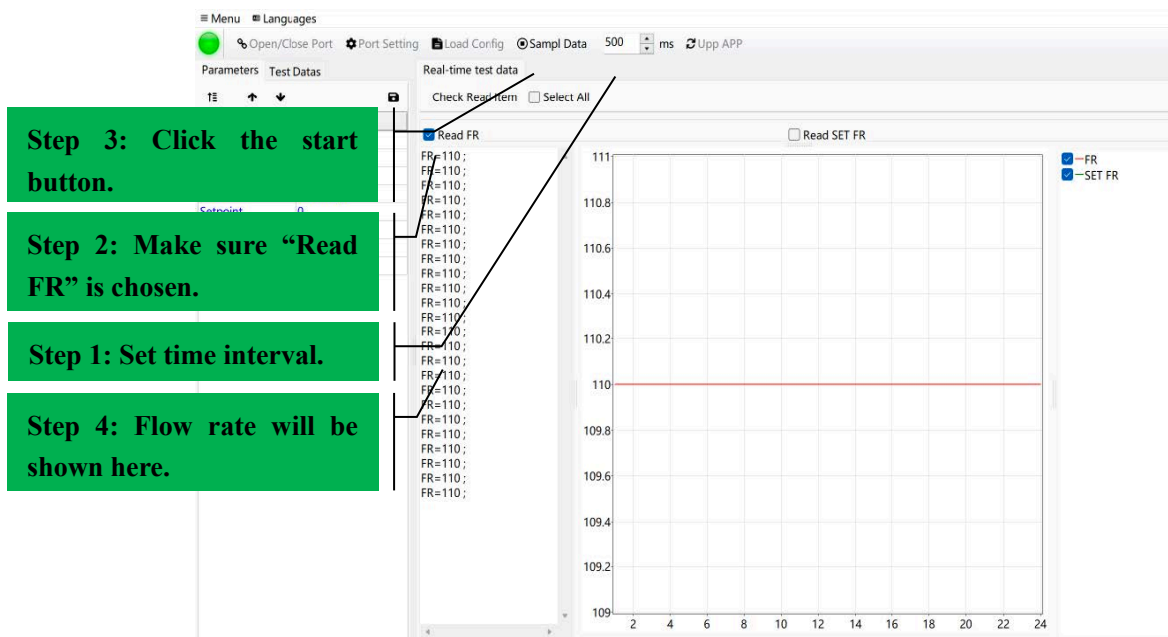
Zoom in: Left click Data Chart, and shift the mouse **from left to right**, the chart which you chose will be zoom in;

Zoom out: Left click Data Chart, and shift the mouse **from right to left**, the chart will get back to the original one.

3.5 Firmware upgrade

Step 1: Load firmware

Step 2: Read the warning, and click Yes to continue.

Step 3: Choose the "PFLOWC5001NA_SW_V0119_UP.bin"

Step 5: Firmware upgrading.

Step 6: Auto verifying.

Information

Operation success !
Elapse: 00:23 (sec)

Step 7: Success.