AXView Solution for Solar Energy
User Manual of
Installation and Configuration
1.0.0.1

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Release Note

Version	Revised Date	Author	Description
1.0.0.1	2017/2/22	Mark Lu	- 1st release

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AXIOMTEK

AXView Solution for Solar Energy Installation and Configuration

I. System Installation and Configuration

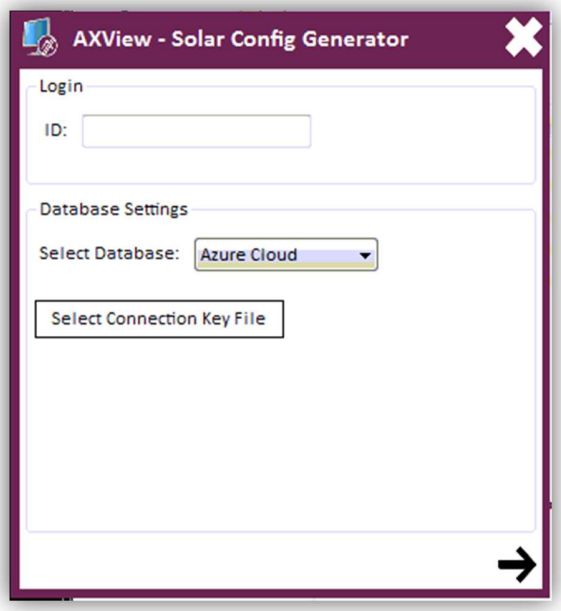
1.1 Installation – Step-by-step

A. One Click for Installation (Run as Administrator)

B. Install Successfully

1.2 Configuration – Step-by-step

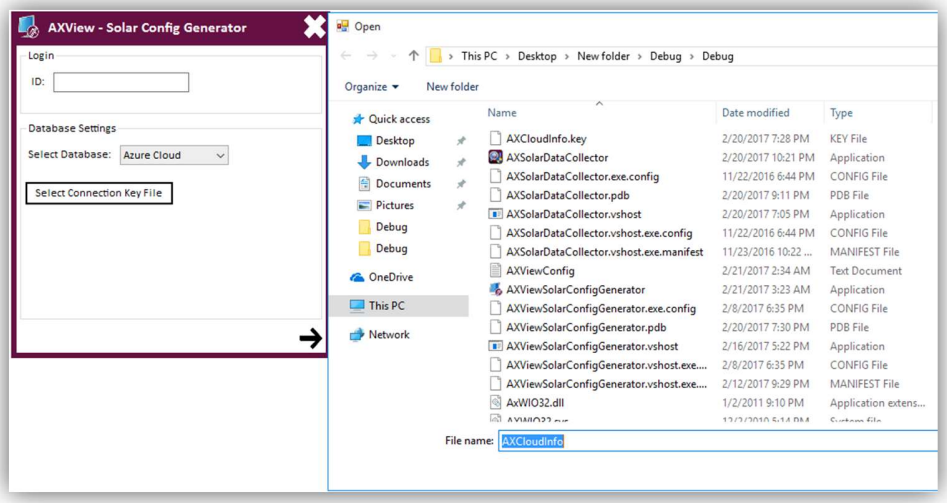
A. Login and Select Cloud Service



i. Key-in ID (ID is EIN of Group).

ii. Select cloud. (choose one)

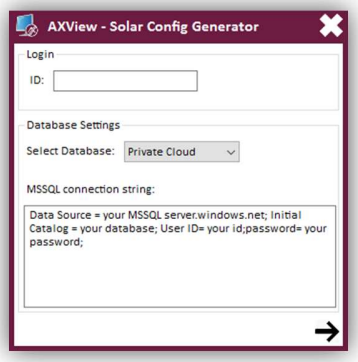
- Azure Cloud: select connection key file (AXCloudInfo.key).



- Private Cloud: key-in connection string of MSSQL Server.

  (Template: Data Source=YOURMSSQLSERVER; Initial Catalog=YOURDATABASE;

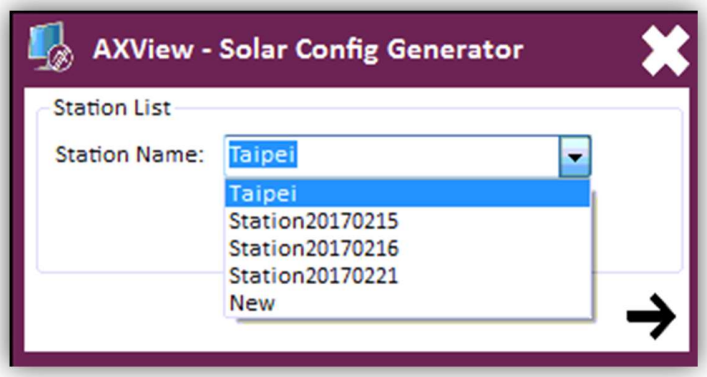
  User ID=YOURID; password=YOURPASSWORD;)



iii. Click (→) for checking and going to next step.

- Error Status 1: EIN is wrong.
- Error Status 2: connection key is wrong.

B. Station Selection

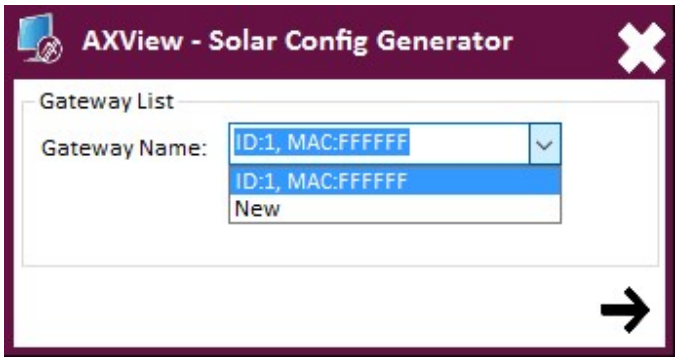


i. New: if this station is new one, select “New”, in the drop-down list, to create a new station.

ii. Station Name: if this station is existed, select station name in the drop-down list.

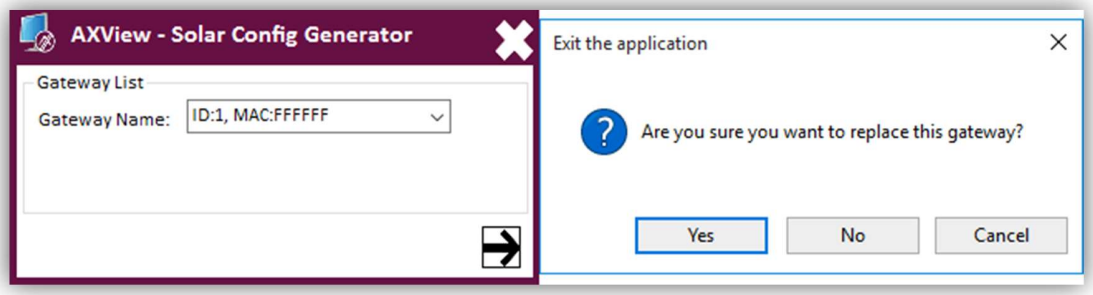
iii. Click (→) for checking and going to next step.

C. Gateway Selection



i. New: if this gateway is new one, select “New”, in the drop-down list, to create a new gateway.

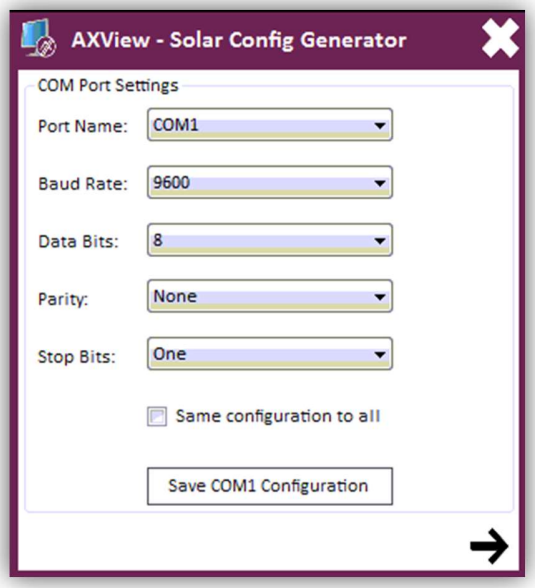
ii. Gateway Name: if this gateway is replace (or back from RMA) one, select gateway name, that MAC is original, in the drop-down list.



iii. Click (→) for checking and going to next step.

D. COM Port Settings

Configure each COM port that you want to use to communicate with Modbus device (inverters or sensors).



i. Configure separately in each COM Port.

- Select Port Name, and configure Baud Rate, Data Bits, Parity and Stop Bits. Then, click “Save COMx Configuration”.

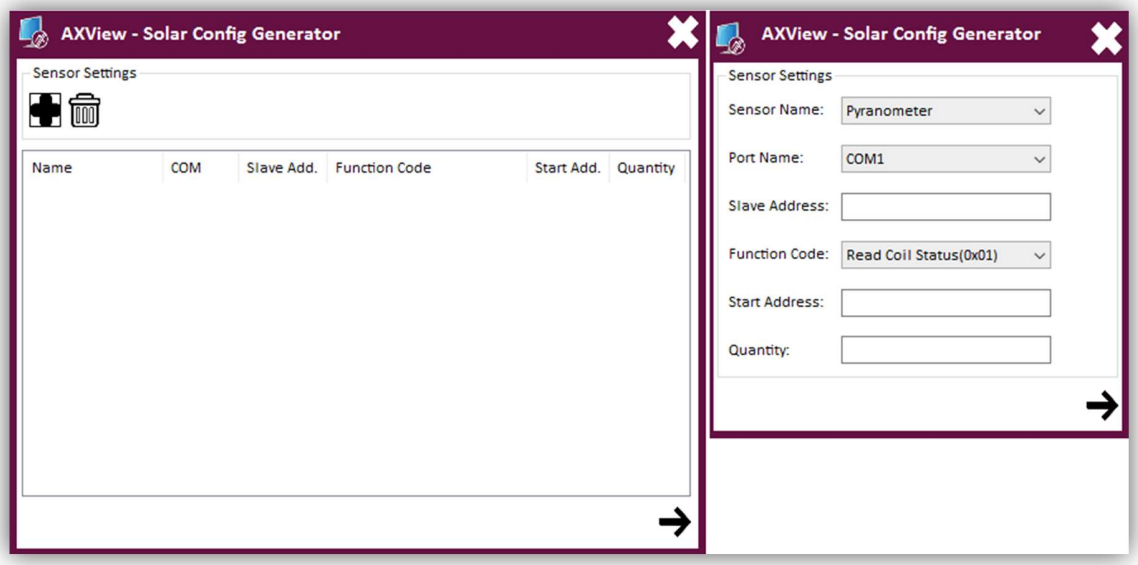
ii. Configure each COM Port in the same configuration.

- If all the COM ports are in the same configuration, before click “Save COMx Configuration”, please check the check box of “Same configuration to all”.

iii. Click (→) for checking and going to next step.

E. Sensor Settings

If you want to set up sensors (Pyranometer, Temperature and Humidity Sensors) on this gateway, please configure them in this page. Otherwise, click (→) for checking and going to next step.



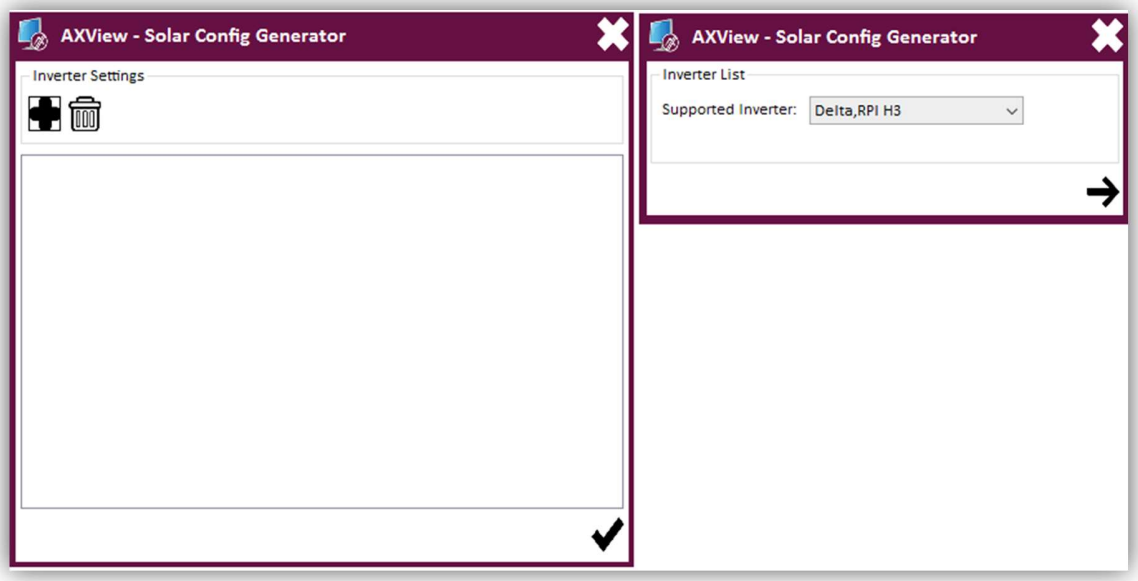
i. Click “+” to set up a sensor. Otherwise, click “-” to remove a sensor.

ii. Set Configuration of sensor that you want to set up with Modbus protocol format.

- There are only 1 Pyranometer, 1 Temperature Sensor and 1 Humidity Sensor in the same gateway.

iii. Click (→) for checking and going to next step.

F. Inverter Settings



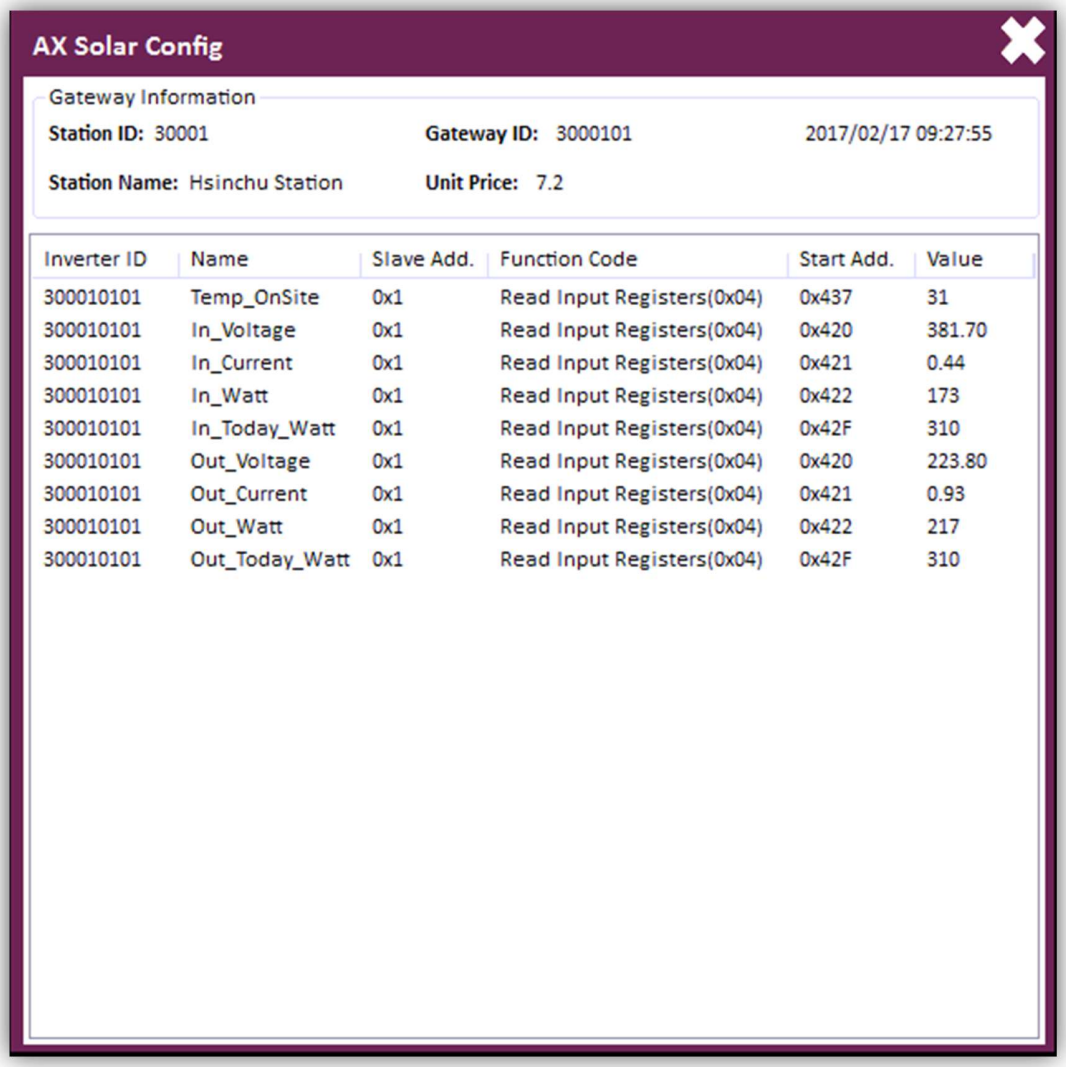
i. Click “+” to set up an inverter. Otherwise, click “-” to remove an inverter.

ii. Select your inverter model in drop-down list.

- If your model is not in list, please info us.

iii. Click (→) for checking and going to next step.

G. After configuration, you will see all configuration and live data from Modbus device (inverter or sensor). It means your settings are correct and working for collection data.



Inverter ID	Name	Slave Add.	Function Code	Start Add.	Value
300010101	Temp_OnSite	0x1	Read Input Registers(0x04)	0x437	31
300010101	In_Voltage	0x1	Read Input Registers(0x04)	0x420	381.70
300010101	In_Current	0x1	Read Input Registers(0x04)	0x421	0.44
300010101	In_Watt	0x1	Read Input Registers(0x04)	0x422	173
300010101	In_Today_Watt	0x1	Read Input Registers(0x04)	0x42F	310
300010101	Out_Voltage	0x1	Read Input Registers(0x04)	0x420	223.80
300010101	Out_Current	0x1	Read Input Registers(0x04)	0x421	0.93
300010101	Out_Watt	0x1	Read Input Registers(0x04)	0x422	217
300010101	Out_Today_Watt	0x1	Read Input Registers(0x04)	0x42F	310