

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

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### **Release Note**

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### I. System Installation and Configuration

### 1.1 Installation - Step-by-step

- A. One Click for Installation (Run as Administrator)
- B. Install Successfully



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- 1.2 Configuration Step-by-step
- A. Login and Select Cloud Service

Login		
ID:		
Database Setting	s	
Select Database:	Azure Cloud	
Select Connecti	on Key File	

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



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- ii. Select cloud. (choose one)
  - Azure Cloud: select connection key file (AXCloudInfo.key).

gin	$\leftarrow \rightarrow \cdot \uparrow$	> This	PC > Desktop > Newfolder > Debug > De	bug	
D:	Organize - N	ew folder			
	🖈 Quick access		Name	Date modified	Туре
atabase Settings	Desktop	*	AXCloudInfo.key	2/20/2017 7:28 PM	KEY File
elect Database: Azure Cloud 🗸 🗸	Downloads	*	AXSolarDataCollector	2/20/2017 10:21 PM	Application
	Documents	*	AXSolarDataCollector.exe.config	11/22/2016 6:44 PM	CONFIG File
Select Connection Key File		14	AXSolarDataCollector.pdb	2/20/2017 9:11 PM	PDB File
	Pictures	*	AXSolarDataCollector.vshost	2/20/2017 7:05 PM	Application
	Debug		AXSolarDataCollector.vshost.exe.config	11/22/2016 6:44 PM	CONFIG File
	Debug		AXSolarDataCollector.vshost.exe.manifest	11/23/2016 10:22	MANIFEST File
	G OneDrive		AXViewConfig	2/21/2017 2:34 AM	Text Document
	Chebrive		AXViewSolarConfigGenerator	2/21/2017 3:23 AM	Application
	This PC		AXViewSolarConfigGenerator.exe.config	2/8/2017 6:35 PM	CONFIG File
	Network		AXViewSolarConfigGenerator.pdb	2/20/2017 7:30 PM	PDB File
			AXViewSolarConfigGenerator.vshost	2/16/2017 5:22 PM	Application
			AXViewSolarConfigGenerator.vshost.exe	2/8/2017 6:35 PM	CONFIG File
			AXViewSolarConfigGenerator.vshost.exe	2/12/2017 9:29 PM	MANIFEST File
			AxWIO32.dll	1/2/2011 9:10 PM	Application extens
			AVIAIO22 or	12/2/2010 5-14 DM	Curtom file
		File nar	ne: AXCloudinfo		

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

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

Jser ID=YOURID;	password=YOURPASSWORD;)
-----------------	-------------------------

ID:		
Database Settings Select Database:		
MSSQL connection	string: r MSSQL server.windows.net; Initia	
	r Misouc server.windows.net; mita tabase; User ID= your id;password:	



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- iii. Click  $(\rightarrow)$  for checking and going to next step.
  - Error Status 1: EIN is wrong.
  - Error Status 2: connection key is wrong.

#### B. Station Selection

뤐 AXView -	Solar Config Generator		×
Station List			
Station Name:	Taipei	-	
	Taipei		
	Station20170215		
	Station20170216		
	Station20170221		
	New		-

- 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  $(\rightarrow)$  for checking and going to next step.

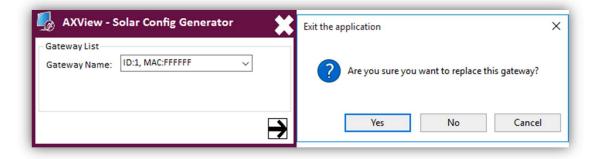


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#### C. Gateway Selection



- 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  $(\rightarrow)$  for checking and going to next step.



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#### D. COM Port Settings

Configure each COM port that you want to use to communicate with Modbus

device (inverters or sensors).

COM Port Set	w - Solar Config Generator	~~
COM POIL SE	ungs	
Port Name:	COM1	
Baud Rate:	9600 👻	
Data Bits:	8	
Parity:	None	
Stop Bits:	One 🔻	
	Same configuration to all	
	Save COM1 Configuration	
		•

- 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  $(\rightarrow)$  for checking and going to next step.





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#### 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 ( $\rightarrow$ ) for checking and going to next step.

ensor Settin	gs					Sensor Settings Sensor Name:		
<b>m</b>						sensor warne.	Pyranometer	~
ame	COM	Slave Add.	Function Code	Start Add.	Quantity	Port Name:	COM1	$\sim$
						Slave Address:		
						Function Code:	Read Coil Status(0x01)	~
						Start Address:		
						Quantity:		
						L		

- 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  $(\rightarrow)$  for checking and going to next step.





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#### F. Inverter Settings

🇓 AXView - Solar Config Generator 🗧 🕻	🕻 🎝 AXView - Solar Config Generator 🛛 🗱
	- Inverter List Supported Inverter: Delta,RPI H3
	→

- 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  $(\rightarrow)$  for checking and going to next step.



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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.

Station ID: 30001 Station Name: Hsinchu Station			ray ID: 3000101	2017/02/17 09:27:55	
nverter ID	Name	Slave Add.	Function Code	Start Add.	Value
00010101	Temp_OnSite	0x1	Read Input Registers(0x04)	0x437	31
00010101	In_Voltage	0x1	Read Input Registers(0x04)	0x420	381.70
00010101	In_Current	0x1	Read Input Registers(0x04)	0x421	0.44
00010101	In_Watt	0x1	Read Input Registers(0x04)	0x422	173
00010101	In_Today_Watt	0x1	Read Input Registers(0x04)	0x42F	310
00010101	Out_Voltage	0x1	Read Input Registers(0x04)	0x420	223.80
00010101	Out_Current	0x1	Read Input Registers(0x04)	0x421	0.93
00010101	Out_Watt	0x1	Read Input Registers(0x04)	0x422	217
00010101	Out_Today_Watt	0x1	Read Input Registers(0x04)	0x42F	310