

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.

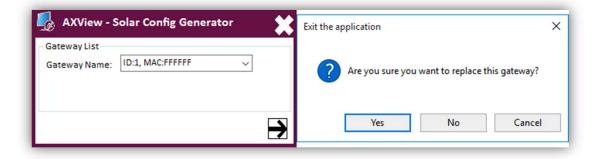


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C. Gateway Selection



- 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:		
m						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