



Remote ECU Management

Version 5.1

APsystems
Building 2, No. 522, Yatai Road, Nanhu District, Jiaxing City, Zhejiang, China
Email: emasupport@apsystems.com
www.APsystems.com

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Introduction

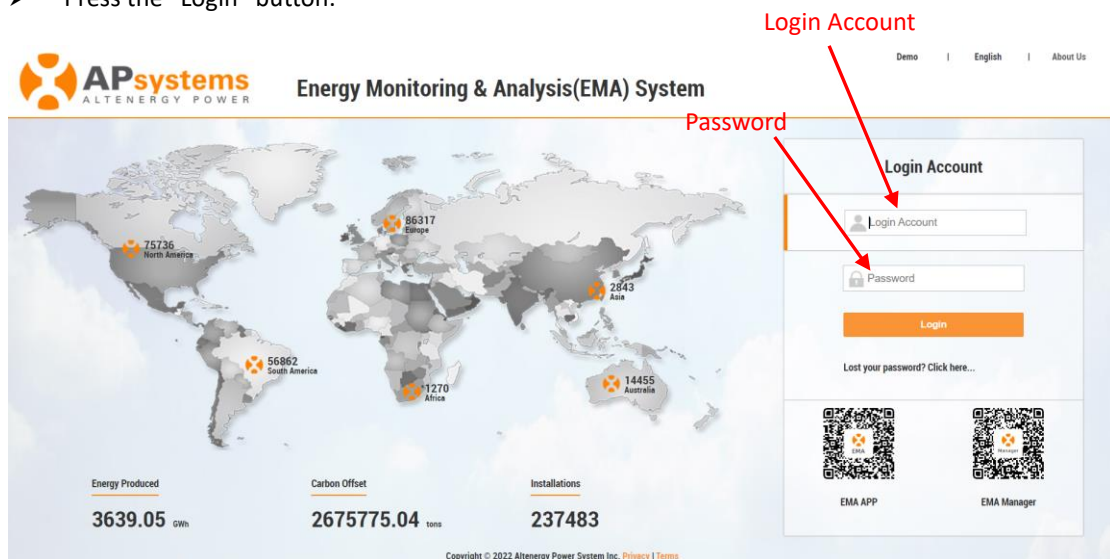
The ECU remote control management function is for PV professionals (installers), enabling remote tuning of the operating parameters of the customer's system and other functions, helping PV professionals (installers) to reduce operation and maintenance costs and improve operation and maintenance efficiency.

1. To Log onto EMA Website

- Go to <http://apsystems.com/>
- Click the orange “EMA Login” in the upper right corner of the screen to enter the EMA login page,



- Enter your “Login Account” and “Password”,
- Press the “Login” button.



Note

- You will be issued a permanent *login account* and a temporary *password* when you complete the Installer Training of APsystems. Contact APsystems Technical Support to register for Installer Training (go to <https://usa.apsystems.com/resources/training>, or call 1.844.666.7034).
- The Password is case sensitive.
- If you forget your password, select “Lost your password? Click here ...”.
- You won’t have any customers in your Customer List the first time you log onto the system.

2. Remote Control

The ECU has been designed with remote connection and management functionality. You can access this remote functionality through the EMA website, using your installer login credentials. Changes made remotely through the EMA do not take effect until the ECU's next reporting cycle.

Note

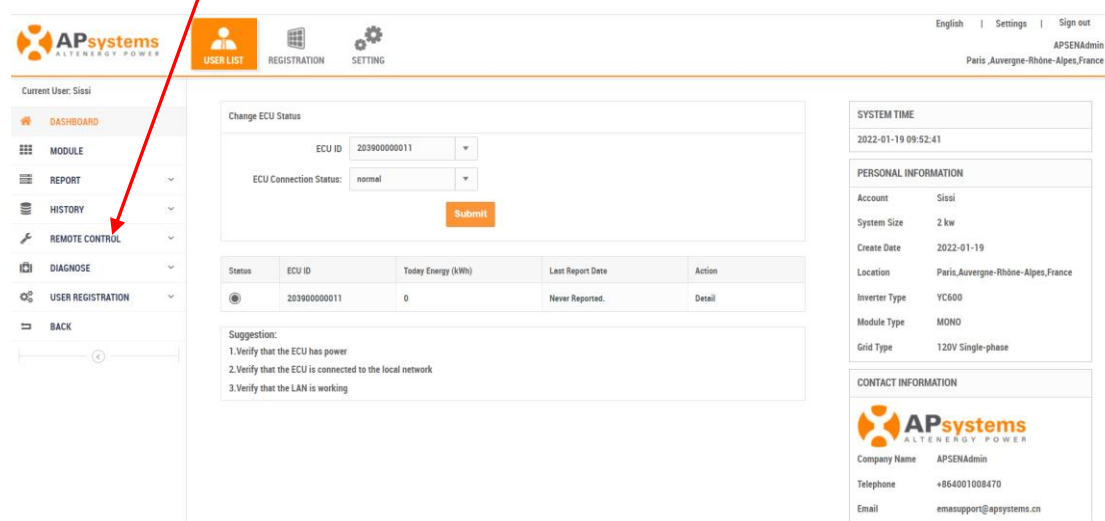
- The ECU must first be installed with verified Power Line Communication [PLC] and Internet connectivity. Refer to the ECU Installation/User Manual for detailed ECU installation and operation instruction.
- Depending on the Internet connection, there may be a delay of 0 to 15minutes in sending the configuration command successfully


The ECU remote functionality allows you to do the following:

- Set the ECU Status
 - Set Time Zones
 - Manage Inverter UIDs
- Select the customer you want to review from the customer list.

The installer's view of the customer's Dashboard is displayed.

Remote Control



Status	ECU ID	Today Energy (kWh)	Last Report Date	Action
	20390000011	0	Never Reported.	Detail

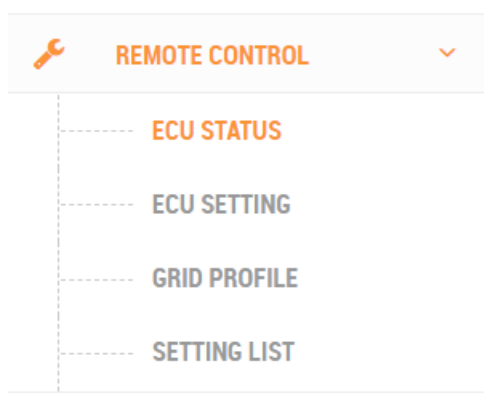
Suggestion:
1. Verify that the ECU has power
2. Verify that the ECU is connected to the local network
3. Verify that the LAN is working

- Select "REMOTE CONTROL" in the left side bar.

Continued ...

2. Remote Control

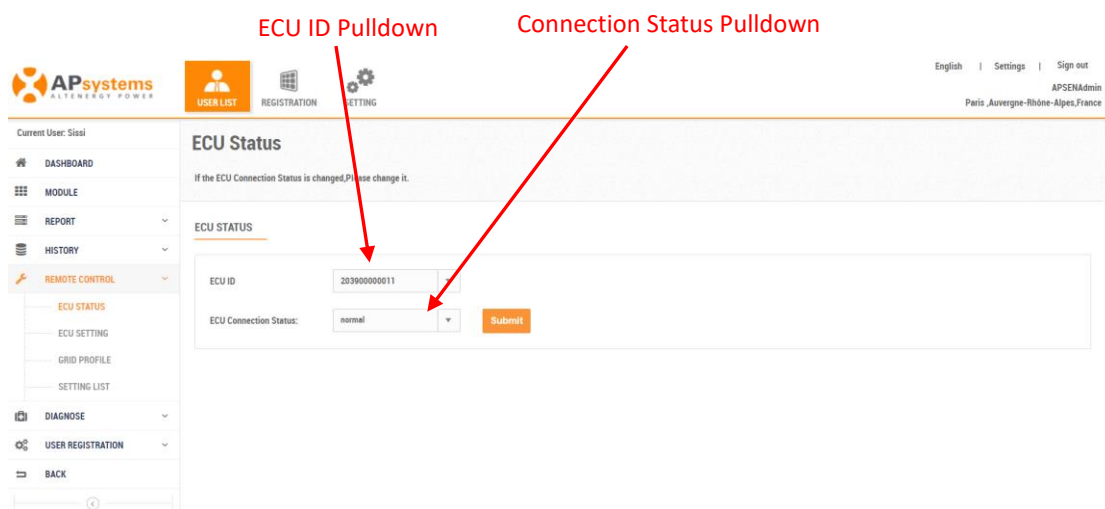
The sub-menu areas are displayed under “REMOTE CONTROL”.



2.1 ECU Status

- Select “ECU STATUS” under “REMOTE CONTROL” in the left side bar.

The ECU status page is displayed.



- Select the ECU ID from the ECU ID pulldown.
- Select the current connection station from the pulldown.
- Press the “Submit” button.

Continued ...

2. Remote Control

2.2 ECU Setting

- Select “ECU STETTINGS” under “REMOTE CONTROL” in the left side bar.

The ECU settings page is displayed.

English | Settings | Sign out
APSENAdmin
Paris, Auvergne-Rhône-Alpes, France

Current User: Sissi

ECU Setting
Set the ECU time zone or reset links between the ECU and inverters as necessary.

TIME ZONE CONFIGURATION

Please select ECU ID: 20390000011

Version: R1.2.19

ECU time zone: Europe/Paris **Send**

INVERTER LINKS CONFIGURATION

Please select ECU ID: 20390000011

Choose operation: Add

Choose the Inverters: Select from below list **Send**

Device List

ID	Inverter ID	Link Status	ID	Inverter ID	Link Status		
<input type="checkbox"/>	1	40660000001	--	<input type="checkbox"/>	2	40660000002	--
<input type="checkbox"/>	3	40660000003	--	<input type="checkbox"/>	4	40660000011	--

Displaying 1 to 4 of 4 items. Total: 1, Go to 1 **Go**

Inverter Links Configuration Window

2.1.1 Manage Time Zone

TIME ZONE CONFIGURATION

Please select ECU ID: 20390000011

Version: R1.2.19

ECU time zone: Europe/Paris **Send**

2. Remote Control

- Select the ECU ID from the ECU ID pulldown.
- Select the correct time zone corresponding to the ECU's location.
- Press the "Send" button.

2.1.2 Manage Inverter Links

ECU ID Pulldown List

Operation Pulldown

Inverter List

Choose the Inverters Pulldown

INVERTER LINKS CONFIGURATION

Please select ECU ID: 20390000011

Choose operation: Add

Choose the Inverters: Select from below list

Send

Device List

ID	Inverter ID	Link Status	ID	Inverter ID	Link Status
1	406800000001	--	2	406800000002	--
3	406800000003	--	4	406800000011	--

Displaying 1 to 4 of 4 items. Total: 1, Go to 1, Go

- Select the ECU ID from the ECU ID pulldown.
- Select the operation (Add, Clear, or Delete) from the Operation pulldown.
- Select the inverter from the Inverter List, or input the inverters.
- Press the "Send" button.

Note

There are two types of inverter selection: "Select from the list below" and "Input the Special Ones". "Input the Special Ones" requires the administrator to enter the inverter ID number manually.

INVERTER LINKS CONFIGURATION

Please select ECU ID: 20390000011

Choose operation: Add

Choose the Inverters: Input the Special Ones

Send

Device List

ID	Inverter ID	ID	Inverter ID
----	-------------	----	-------------

2. Remote Control

2.3 Grid Profile

Can set the appropriate AC protection values for customers' systems in order to guarantee the safe working.

- Select "GRID PROFILE" under "REMOTE CONTROL" in the left side bar.

The GRID PROFILE page is displayed.

English | Settings | Sign out
APSEAdmin
Paris ,Auvergne-Rhône-Alpes,France

Current User: Sisai

APsystems
ALTERNATE ENERGY POWER

USER LIST REGISTRATION SETTING

DASHBOARD
MODULE
REPORT
HISTORY
REMOTE CONTROL
ECU STATUS
ECU SETTING
GRID PROFILE
SETTING LIST
DIAGNOSE
USER REGISTRATION
BACK

AC Protection Configuration

Set the appropriate AC protection values for your customers' systems in order to safe working.

VIEW AC PROTECTION PARAMETERS

ECU ID: 20390000011

Grid profile: Netcode **Setting**

REGISTERED INVERTER CURRENT SETTING PARAMETER LIST

Inverter ID
40860000001
40860000002
40860000003
40860000011

Note

The parameter setting items may vary depending on the ECU version, so the parameter setting items are subject to the actual display on the page.

- Select the ECU ID from the ECU ID pulldown.
- Check the AC protection values for Grid profile pulldown.
- Select the appropriate AC protection from the Grid profile pulldown.
- Press the "Send" button.

VIEW AC PROTECTION PARAMETERS

ECU ID: 20390000011

Grid profile: Netcode **Setting**

Continued ...

2. Remote Control

2.4 Setting List

This page is used to confirm that a remote control command has indeed been sent to the APsystems server, and that the ECU has “replied” that the command has been received.

- Select “SETTING LIST” under “REMOTE CONTROL” in the left side bar.

The Setting List page is displayed.

The screenshot shows the APsystems web interface. The left sidebar has 'SETTING LIST' selected under 'REMOTE CONTROL'. The main content area is titled 'Setting List' and contains a table of 'ECU CONTROL COMMAND LIST(LAST 30 DAYS DATA)'. The table has columns for ID, Command, Send Time, and Reply Time. Three red arrows point to specific elements: 'Command Pulldown' points to the 'Command' dropdown menu, 'Command List' points to the 'Command' column, 'Send Time' points to the 'Send Time' column, and 'Reply Time' points to the 'Reply Time' column.

ID	Command	Send Time	Reply Time
1	Inverter Links Configuration	2022-01-19 13:59:36	..
2	Inverter Links Configuration	2022-01-19 13:59:35	..
3	Inverter Links Configuration	2022-01-19 13:59:08	..

- Select the ECU ID from the ECU ID pulldown.
- Select the command that you want confirmed from the Command pulldown.

Note

The Send and Reply times are displayed once the commands have been sent and received. It can take a few reporting cycles for the commands to be reflected in the monitoring sections of the EMA.