RCPORT-PLC300

User Manual

V 1.0.0

CHIPSEN

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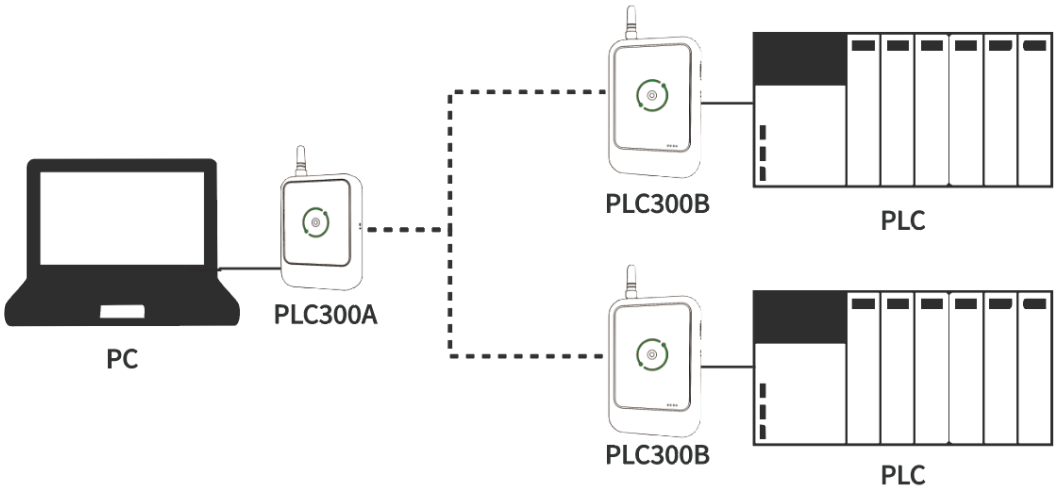
1. Document Overview

This document defines the product setup and usage of the contents RCPORT-PLC300A (hereinafter referred to as "PLC300A") and RCPORT-PLC300B (hereinafter referred to as "PLC300B") included in the RCPORT-PLC300SET (hereinafter referred to as "PLC300").

2. Product Overview



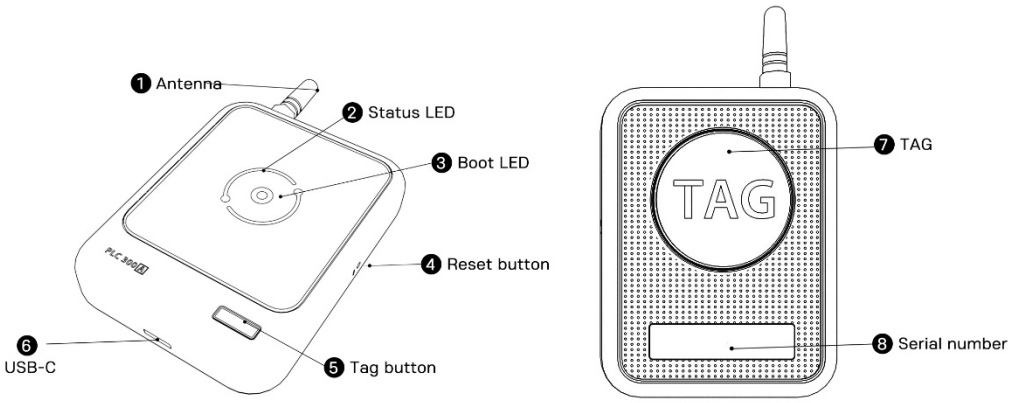
RCPORT-PLC300 is a device that wirelessly connects PLC USB devices located far from your PC. It operates reliably as if connected directly with a USB cable, overcoming the 5-meter limitation of standard wired USB connections to enable communication up to 150 meters (or up to 1.5 km with extension). It is automatically connected by simply tag the device without complicated settings, making it easy for anyone to use.

-Key features-

- Wireless USB communication
- Compatible with most PLCs
- Communication range up to 150m
- Easy to connect (Tag & Connect)
- 1:N multi-communication
- Built-in magnets (Mountable)

3. Names of Each Part

RCPORT-PLC300A



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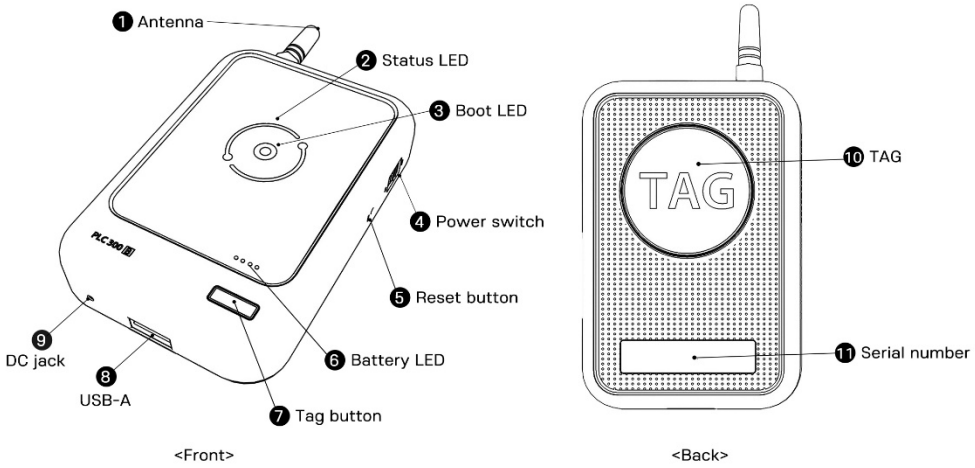
Number / Name	Description
① **Antenna**	2.4 GHz wireless communication antenna
② **Status LED**	LED indicating the current operating status
③ **Boot LED**	LED indicating the system boot status
④ **Reset Button**	Button to restore factory settings and reboot the device
⑤ **Tag Button**	Button to activate or cancel Tag mode for wireless connection
⑥ **USB-C**	- USB port for connecting to a PC - Also used for power input
⑦ **TAG**	Contact area for Tag mode
⑧ **Serial Number**	Displays the product's serial number

RCPORT-PLC300B



Number / Name	Description
① **Antenna**	Wireless communication antenna
② **Status LED**	LED indicating the current operating status
③ **Boot LED**	LED indicating the system boot status
④ **Power Switch**	Turns the device on or off
⑤ **Reset Button**	Button to restore factory settings and reboot the device
⑥ **Battery LED**	Displays the remaining battery charge
⑦ **Tag Button**	- Button to activate or cancel Tag mode for wireless connection - Button to display or cancel the battery level indication
⑧ **USB-A**	Contact area required when using Tag mode
⑨ **DC JACK**	DC Power Jack for charging the device
⑩ **TAG**	Contact area for Tag mode
⑪ **Serial Number**	Displays the product's serial number

4. LED Indicators & Status

4.1. Status LED

LED Status	Description
Red LED blinking slowly	Wireless not connected
Green LED blinking slowly	Wireless connected
Blue LED steady on	PLC300A : Before a tag is made in Tag mode
Blue LED blinking	PLC300A : After a tag is made in Tag mode PLC300B : Tag mode

4.2. Boot LED

LED Status	Description
LED blinking very rapidly	System is booting (blinks at 50ms intervals)
LED blinking rapidly	System is upgrading (blinks at 100ms intervals)
LED blinks 3 times, turns off	Battery is too low to operate

4.3. Battery LED

LED Status	Description
1 ~ 4 LEDs lit	Indicates remaining battery level
1 ~ 4 LEDs blinking	Indicates battery is charging

5. Buttons & Switches

5.1. Tag Button

- **PLC300A**
  - Press and hold the tag button for approximately **2 sec**. The buzzer will sound once, and the device will enter **Tag mode**.
  - While in tag mode, **press the tag button once** to cancel Tag mode.

- **PLC300B**
  - Press and hold the tag button for approximately **2 sec** to enter **Tag mode**.
  - While in tag mode, **press the tag button once** to cancel Tag mode.
  - **Press the tag button once** to display the **current battery level**.
  - **Press the tag button twice** to turn off the battery level display.

5.2. Reset Button

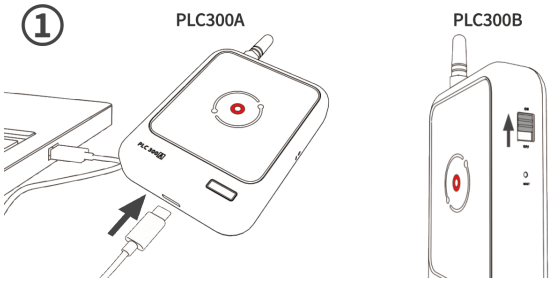
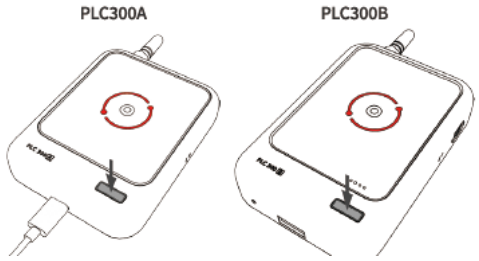
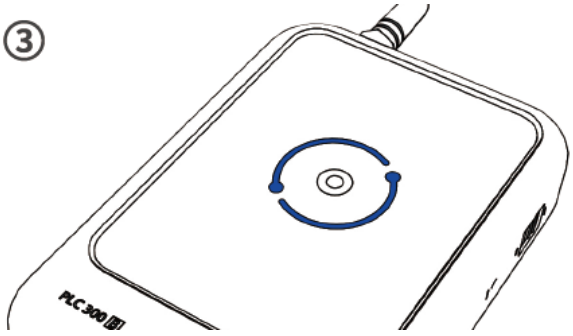
- For **both PLC300A and PLC300B**, pressing and holding the reset button for more than **2 sec** will **restore factory settings** and restart the system..

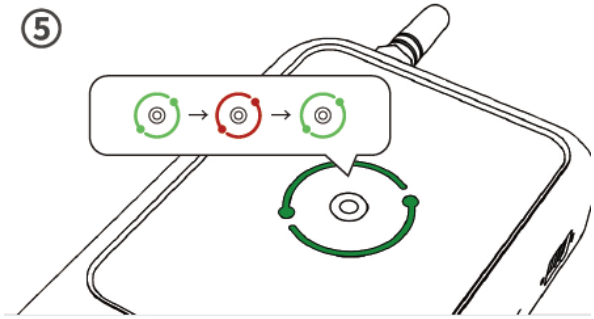
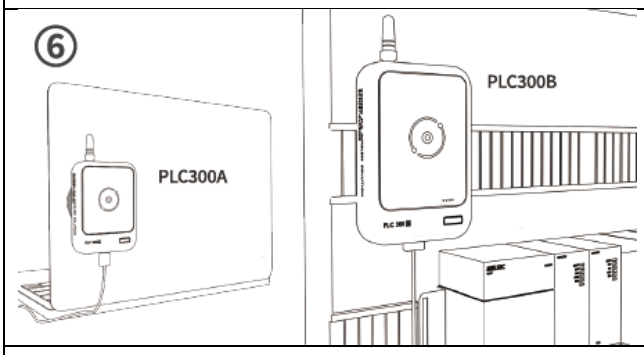
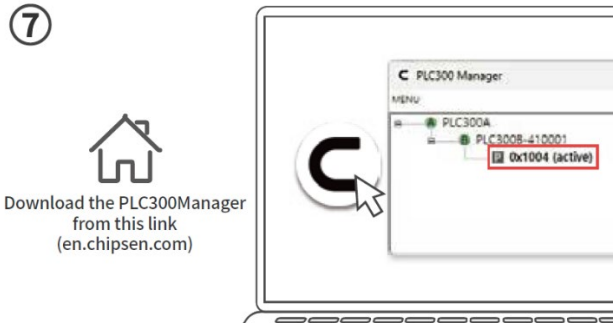
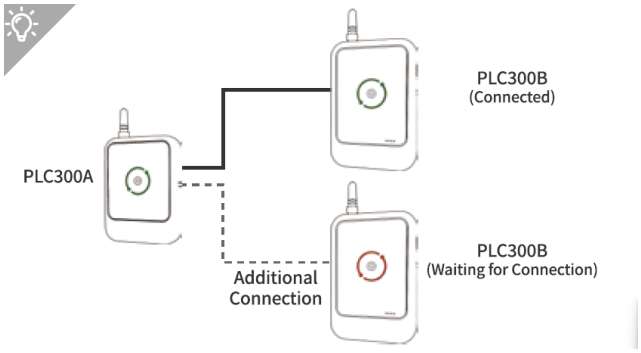
5.3. Power Switch

- PLC300A
  - There is **no power switch**.

- PLC300B
  - A power switch is located on the side, allowing you to **turn the device on or off**.
  - Move the power switch to **ON** to power on, and to **OFF** to power off the device.

6. How to configure Connections

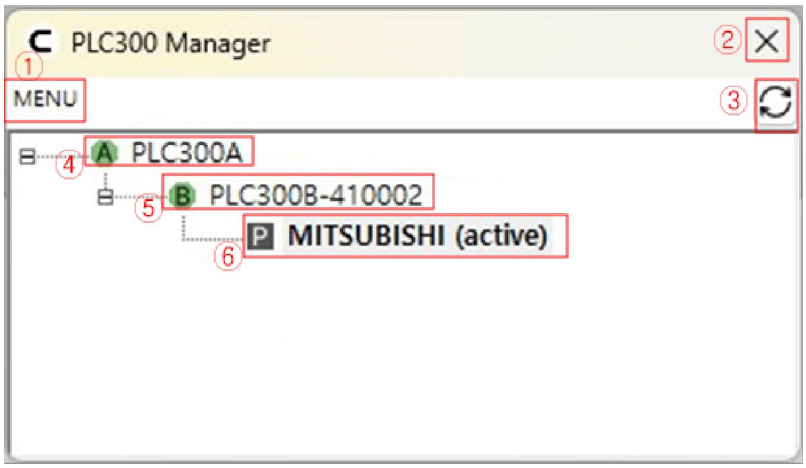
① 	Turn on the power. The Boot LED will blink to indicate vooting. Device configuration takes approximately 1 min. Please wait a moment.
② 	After the boot process is complete, the Status LED will blink red. press the tag buttons on both PLC300A and PLC300B for approximately 2sec to enter Tag mode.
③ 	At this time, the Status LED on PLC300A will light up blue, and the buzzer will beep twice. On PLC300B, the LED will blink blue. Both devices have now entered Tag mode.
④ 	Touch the 'TAG' areas on the back of both devices together. If tag is successful, PLC300A will beep once, and the Status LED will blink blue. At this point, detach the two devices.

⑤ 	Once the wireless is connected, the Status LEDs will display green blinking → red blinking → green blinking, indicating that the connection is complete.
⑥ 	Connect PLC300A to the PC and PLC300B to the PLC. Ensure that the wireless connection is complete by checking that both devices' status LEDs continue to blink green.
⑦ 	Download and launch PLC300 Manager from the Chipsen official website (en.chipsen.com), then verify that the connected PLC shows as active before starting operation.
	**For mulit-communication,** turn on the additional PLC300B and repeat the connection procedure. (The existing connection between the PLC300A and PLC300B will remain active during additional connections.)

7. PLC300 Manager (program for plc300)

Download 'PLC300 Manager' from the Chipsen official website.*Link: https://en.chipsen

7.1. Description



Number / Name	Description
① **MENU** Always on Top Language License Exit	Always on Top: Keeps the program window always on top. Language : You can set the language to Korean, English, or Japanese. License... : Displays program information and copyright details. Exit : Close the program
② **Close**	The program will continue to run in the background and can be reopened from the system tray at the bottom right.
③ **Refresh**	Click to refresh the list of connected devices. If connected devices do not appear quickly, click this to display them.
④ **PLC300A**	Displays the PLC300A device connected to the PC.
⑤ **PLC300B**	Displays the PLC300B devices communicating wirelessly with PLC300A.
⑥ **PLC**	Displays the PLCs connected to PLC300B via a wired connection. Ensure that the PLC is in the **active** state before communication. Double-click to change the **active** state. The displayed name depends on the PLC manufacturer and model.

8. Web Interface

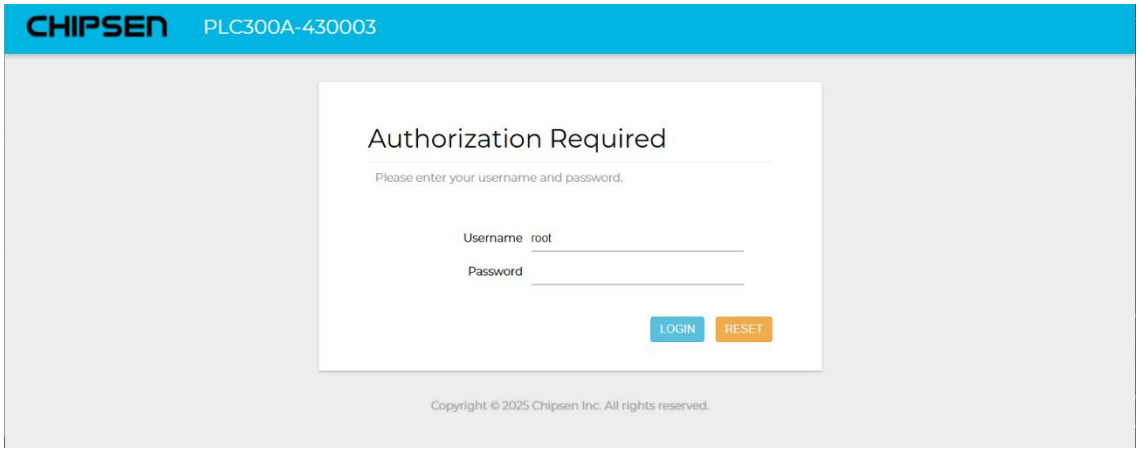
The **RCPORT-PLC300 product** allows you to check connection status and change settings via a web interface. The web page access address consists of the product name and the last six digits of the serial number.

For example, if the last six digits of the PLC300A serial number are **45B45E**,the web page address will be: **http://plc300a-45b45e.lan**

Enter this address in the browser address bar on the computer connected to PLC300A to access the product's web page. For **PLC300B**, the web page can only be accessed when it is wirelessly connected to PLC300A. All settings will be restored to default when the Reset Button is pressed.

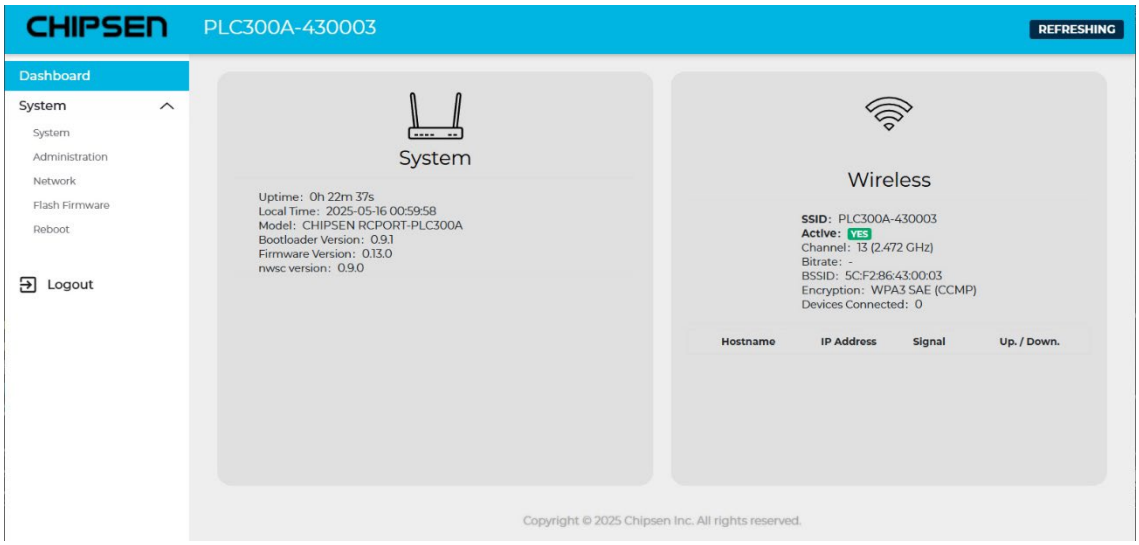
8.1. Login

After accessing the **web page of the RCPORT-PLC300 product**, you must log in to proceed to the settings screen. The **username is fixed as "root"**, and the default password is **"password"**. Enter the username and password, then click the **"Login"** button.



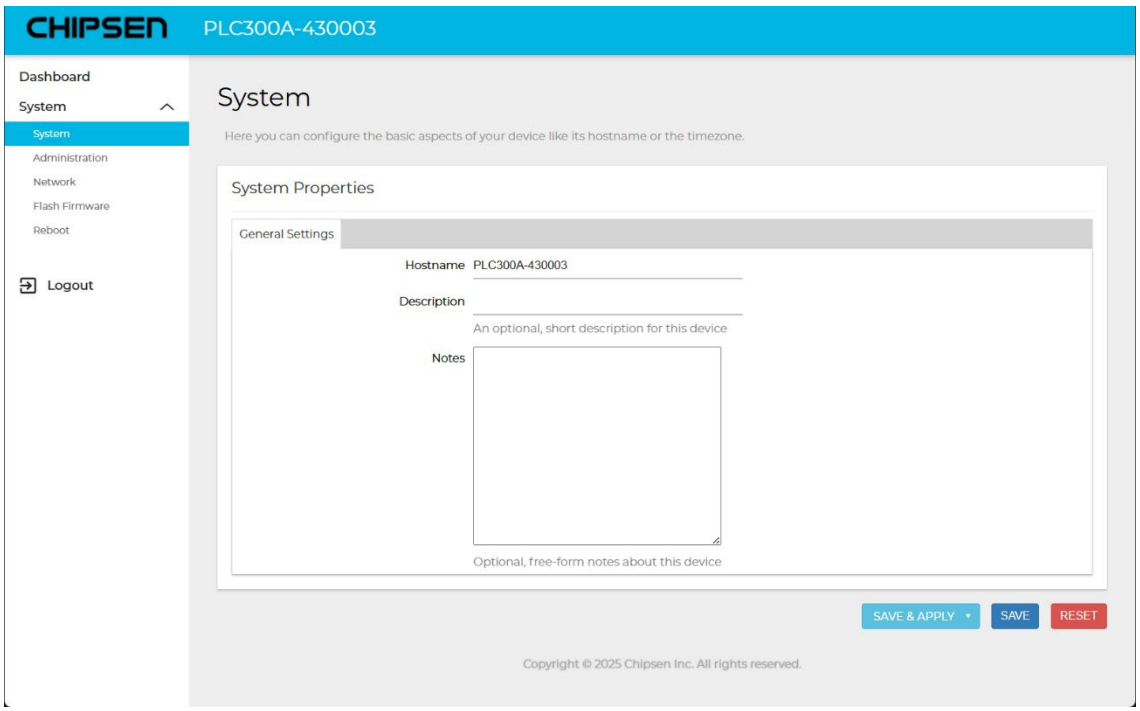
8.2. Dashboard

Dashboard provides an overview of the current system information.



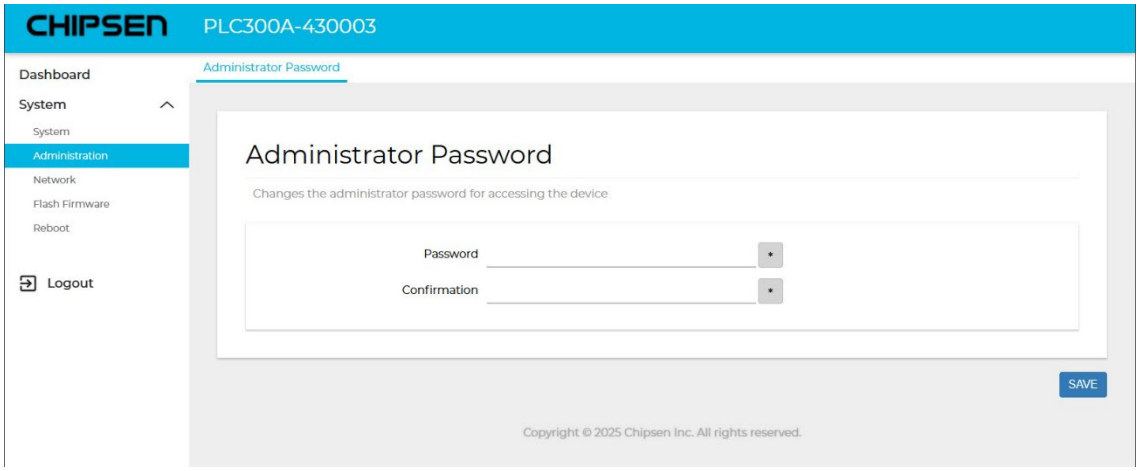
8.3. System

Displays the **system name** and allows you to enter a **device description**.



8.4. Management

You can change the **password used for login** on the management page.

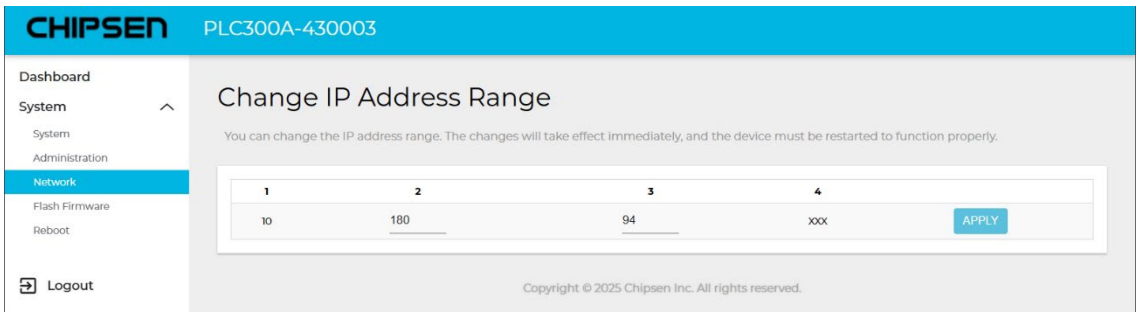


8.5. Network (Only for PLC300A)

You can change the **IP address range** used by the RCPORT-PLC300 system.

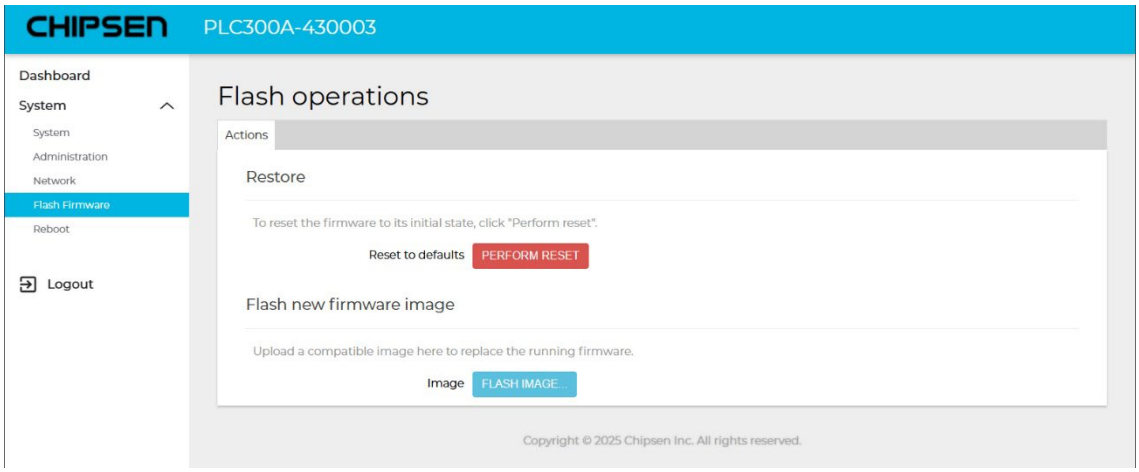
If there is a conflict between the IP address range used by the computer connected to PLC300A via USB and the network used by RCPORT-PLC300, you can change the IP address range here.

If you **reset the PLC300A settings**, the changed IP address range will be cleared and restored to the system default.



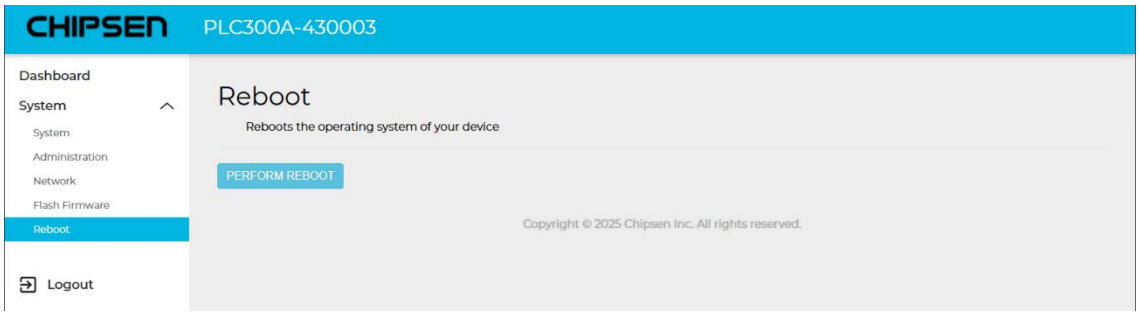
8.6. Firmware

You can **initialize the settings** or **update the firmware** of the RCPORT-PLC300.



8.7. Restart

You can also **restart the system**.



9. FCC COMPLIANCE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE DECLARATION OF CONFORMITY
This product is CE marked according to the provisions of the Radio Equipment Directive 2014/53/EU. Hereby, CHIPSEN INC. declares that the radio equipment type MW07 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

10. Limitations of Liability and Legal Notice

This product may cause radio confusion during use and may receive harmful interference from other devices. Therefore, there may be data transfer delays or losses, and users are advised to take this into consideration and use it after sufficient testing. Due to the nature of the radio, there is no guarantee of accuracy, reliability or completeness, nor is there any responsibility. In no event shall Chipsen Co.,Ltd. or Seller's liability limit exceed the paid selling price of the product

This product is not a "customized" product, but operates on the form, behavior, and software specified by Chipsen Co., Ltd. In other words, be aware that the product is not designed for your specific environment and use it. We recommend that you refer to the functions and commands provided in the manual. It is recommended that you use it after sufficient testing if you use it in a specific environment, and the use and application of this product is entirely with the user (customer) and Chipsen Co., Ltd. has no warranty and no liability.

The technical information provided in this document describes the representative characteristics of the product and examples of the application circuit. This does not mean allowing industrial property rights, intellectual property rights, or other rights.

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