iAeris

iAeris6 Indoor Air Quality Detector

* Please read this manual carefully before using this product.

USER MANUAL

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IAERIS6 USER MANUAL

Contents

- PACKAGE CONTENTS
- PRODUCT DESIGN/FEATURES
  - Front/Right side/Embedded Installation
  - Back site
- PRODUCT DIMENSIONS
- WALL MOUNT INSTALLATION
- APPLICABLE JUNCTION BOX TYPES
- STAND MOUNT INSTALLATION
- USER INTERFACE - HOME
  - Details page
  - Settings page
- CONNECT TO ETHERNET
- LOG IN TO THE SETTINGS WEBPAGE
  - WiFi Setup Process
- CLOUD PLATFORM INTERFACE (OPTIONAL)
  - Register Account
  - Cloud Platform Login Homepage
  - Historical Data Trend Curve
  - Customer Area Functionality
- INSTALLATION POSITION RECOMMENDATIONS
- PRECAUTIONS

Appendix

IAERIS6 UI FUNCTION DESCRIPTION

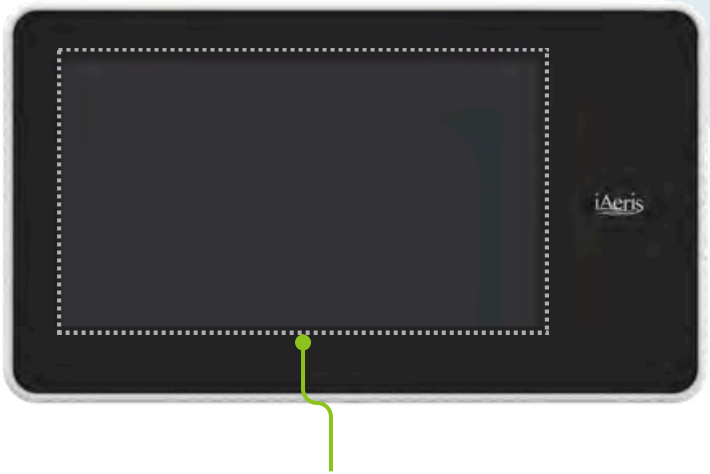
IAERIS6 LOGIN SETTINGS

PACKAGE CONTENTS

- iAeris main unit
- Adapter [1]
- Stand
- Product warranty card

PRODUCT DESIGN / FEATURES

Front



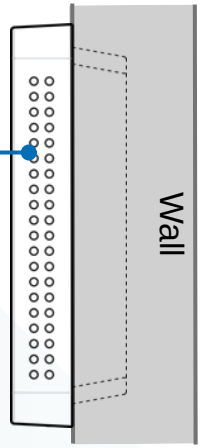
Touch screen

Left Side

Multi-function button [2]
Hold for 10 seconds to reset the network. Please read the notes under

Micro USB Power2[3]

Embedded Installation



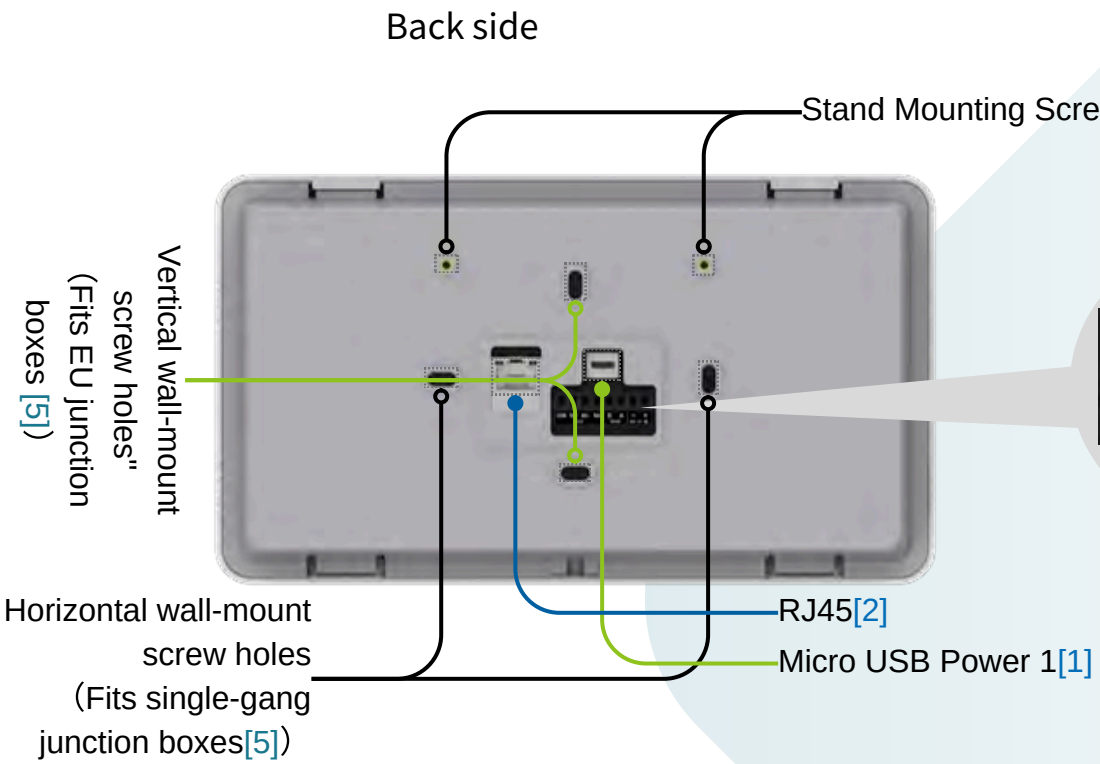
This product can be embedded into the wall, but do not block the vents.

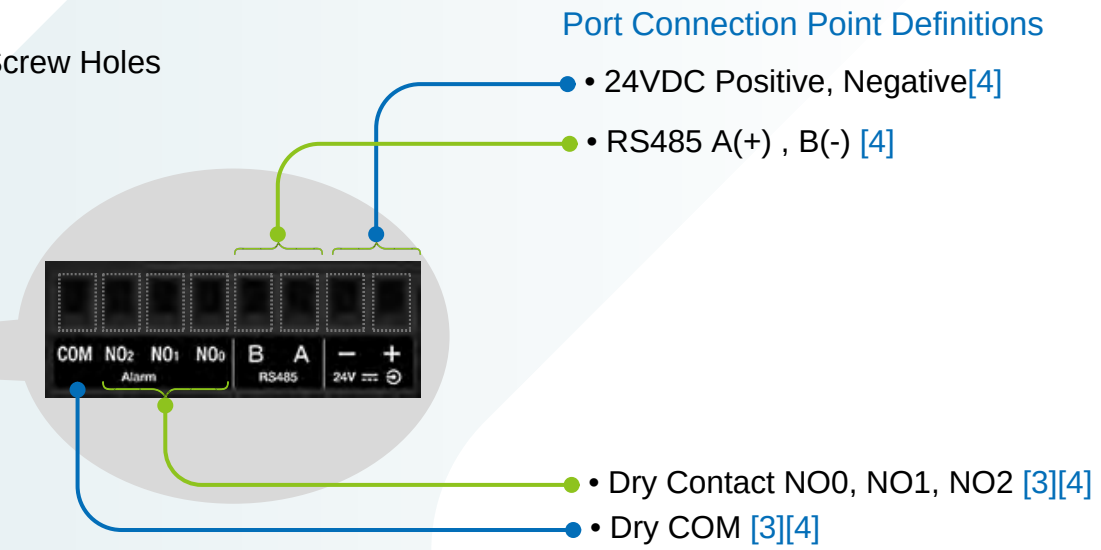
Please refer to [Product dimensions] page

NOTES:

[1] Transformer power cord length is 1.5m
[2] Hold the multifunction button for 10sec. to reset Wi-Fi
[3] There are 2 Micro USB Powers on right and back sites. Avoid using both Micro USB power1 & 2 ports simultaneously.

PRODUCT DESIGN / FEATURES





NOTES:

[1] Besides the back, the product's left side also has a Micro USB power port. Do not use Micro USB Power 1 and Power 2 simultaneously.
[2] This product supports IEEE 802.3af PoE power supply (optional).
[3] When contacts NO0, NO1, NO2 are closed, they connect to COM.
[4] Recommended communication cable for the port:
RS485: AWG22 dual isolated control cable
24VDC: AWG24AWG19 multi-core power cable
Dry contact: AWG24AWG19 multi-core power cable
[5] For junction boxes, see **'Applicable Types'** .

COMMUNICATION INTERFACE:

RS485 Communication Function

- RS-485 is directional, please pay attention to the A(+) and B(-) positions when wiring. Communication format adopts Modbus RTU format, please use devices and equipment with Modbus RTU Master function.

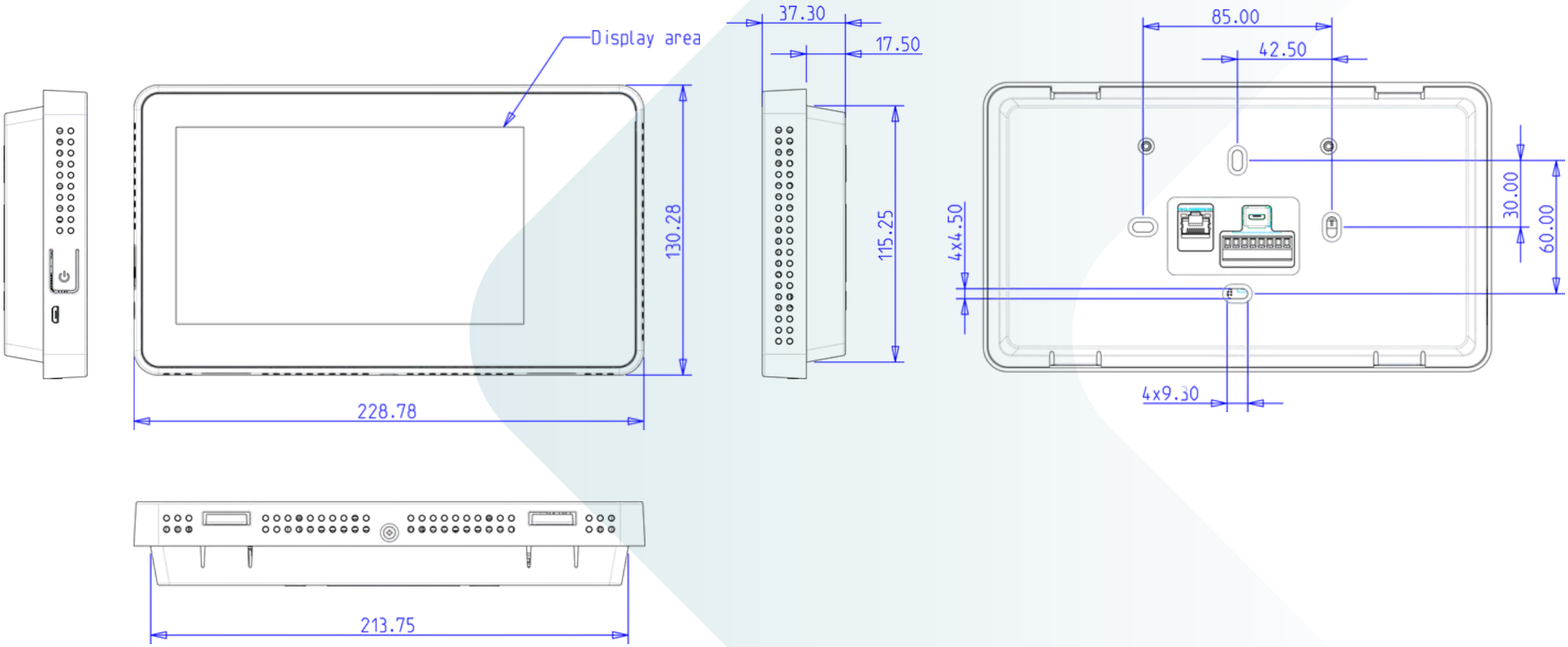
Wireless Network Function

- For Ethernet connection, plug the network cable into the RJ45 connector.
- For Wi-Fi connection, please refer to the Wi-Fi setup instructions.
- Supports HTTP, MQTT, and Modbus TCP network communication protocols.

Dry Contact Function

- This product has three dry contacts (NO0, NO1, NO2) to trigger external devices. Use proper wiring.[4]

PRODUCT DIMENSTIONS



Unit：mm

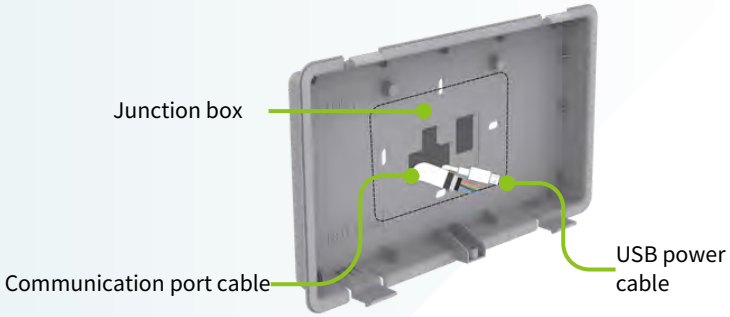
WALL MOUNT INSTALLATION

1

Loosen the bottom screws.

2

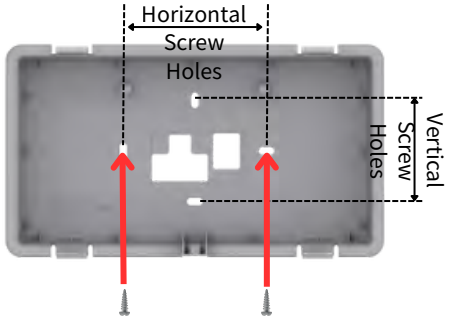
① Press the bottom latch.
② Lift the machine body to detach it from the back cover.



3

Position the back cover on the wall[1] or on the junction box[2], and route the Micro USB Power code and Communication port cable as needed.

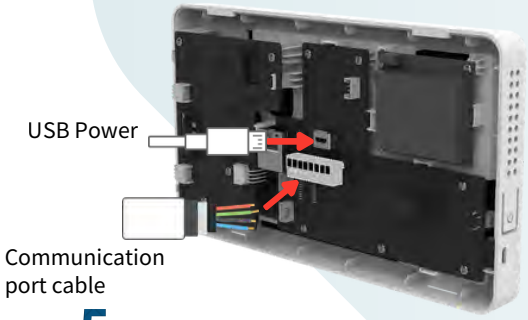
[1]Refer to page [installation position recommendations]



4

Secure the back cover to the wall using the provided screws[2]

[2]Use horizontal or vertical screw holes per junction box specs. See page [Applicable junction box types]



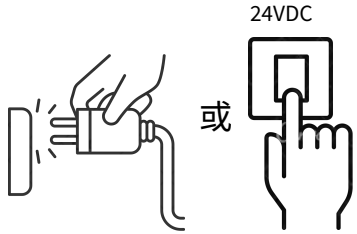
5

Install the power cord [3]and communication port cable as needed

[3]This product offers two power supply options. See page [Power Supply Specifications] for details

6

① Reattach the machine body and secure the bottom latch of the back cover.
② Lock the fixing screws.

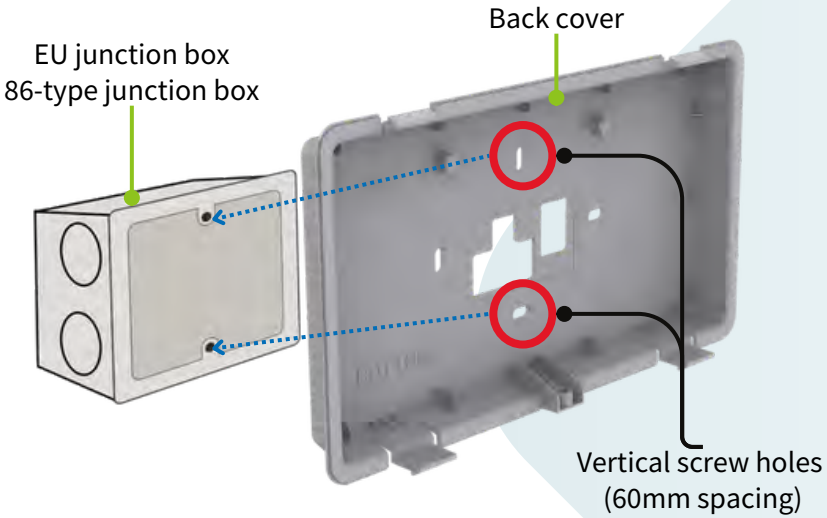


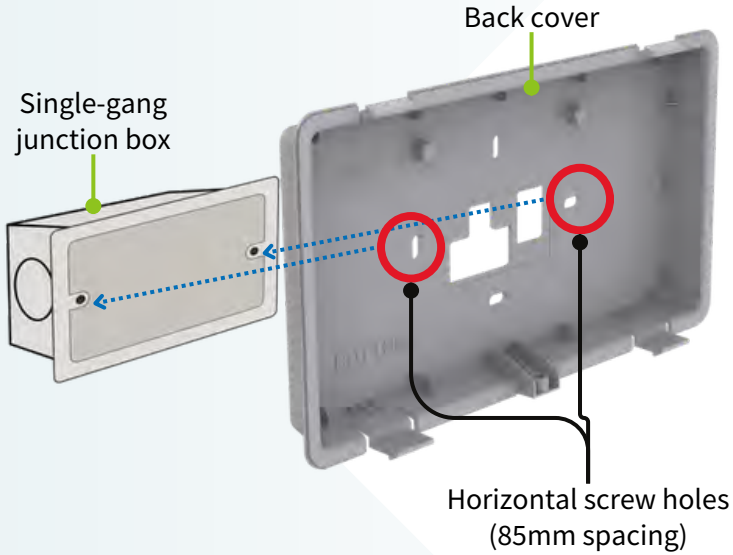
7

Plug in the adapter or power the device with 24VDC.

APPLICABLE JUNCTION BOX TYPES

iAeris6 back cover fits EU, 86, and single-gang boxes with 4 screw holes.





1

EU or 86-type junction box

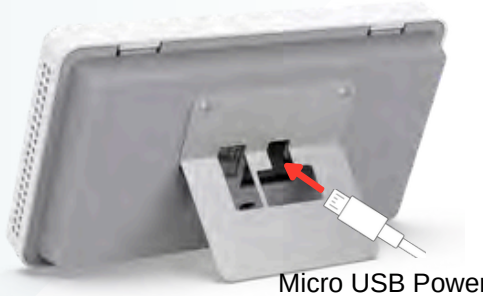
- For EU or 86-type junction boxes, use vertical screw holes
- 60mm spacing for mounting.

2

Single-gang junction box

- For single-gang junction boxes, use horizontal screw holes
- 85mm spacing for mounting.

STAND MOUNT INSTALLATION



1

Attach the stand to the detector back cover with the included screws.

2

Set the detector with stand on a flat surface.

- Ensure the detector is placed level. Place it away from the body and heat sources for accuracy.
- Ensure the vents are unobstructed for proper airflow.
- Refer to page 20 for installation position recommendation

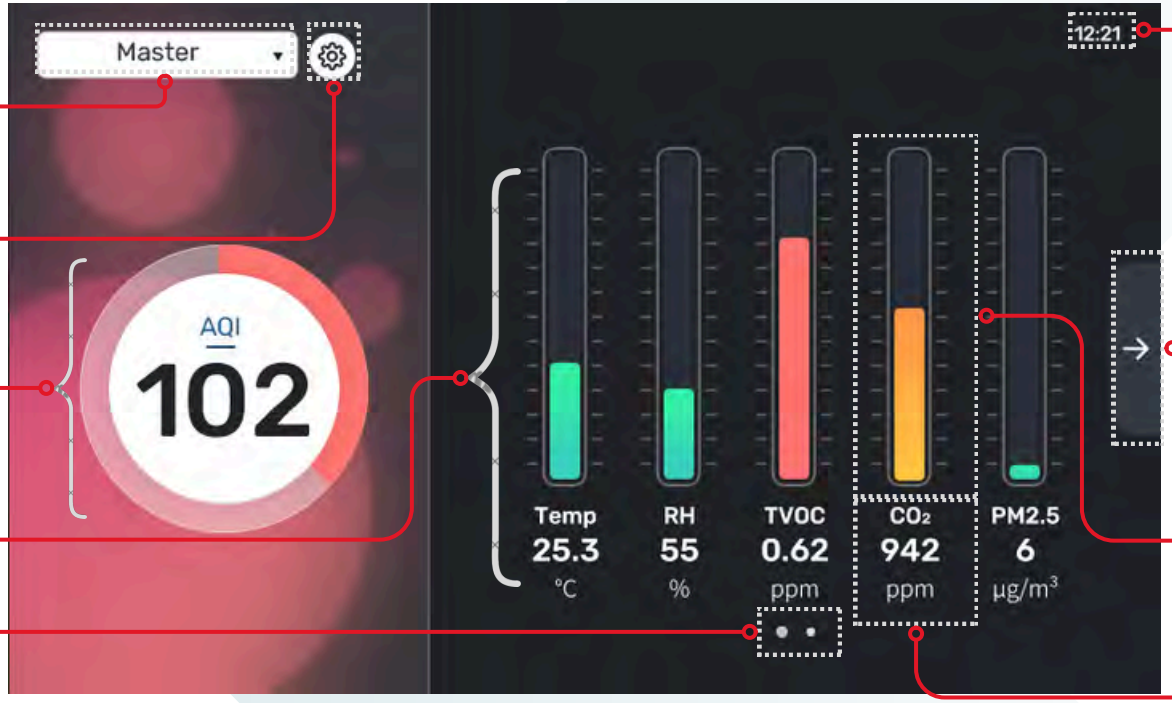
3

Plug in the transformer to power on the device.

- This product has one Micro USB power port on the back and one on the side. You can choose to use either as needed.
- Do not use Micro USB power 1 and 2 simultaneously.

USER INTERFACE - HOME

iAeris6 shows the home screen after boot, displaying air quality and device information



Device menu [1]
- Select device to view

Settings button
- switches screen to options and settings page

AQI status [2]
- Displays overall AQI value
- Changes color based on AQI status

Monitored factors [4]
- Each factor's value and status

Page indicator [4]

Device time
- Time is shown in 12-hour format.

Details button
- Switches to history page

Scale [3]
- Graphical concentration status. [3]

Real-time concentration
- Includes factor name, concentration, and unit

NOTES:

[1] This menu appears only in slave mode
[2] AQI (Air Quality Index) is a combined index from pollutant levels that helps users understand air quality and its health impact.
[3] Scale shows concentration level and uses colors for exceedance.
[4] Up to five factors per page; swipe left/right to switch pages. Page indicator shows current page.

Exceedance Status Explanation:

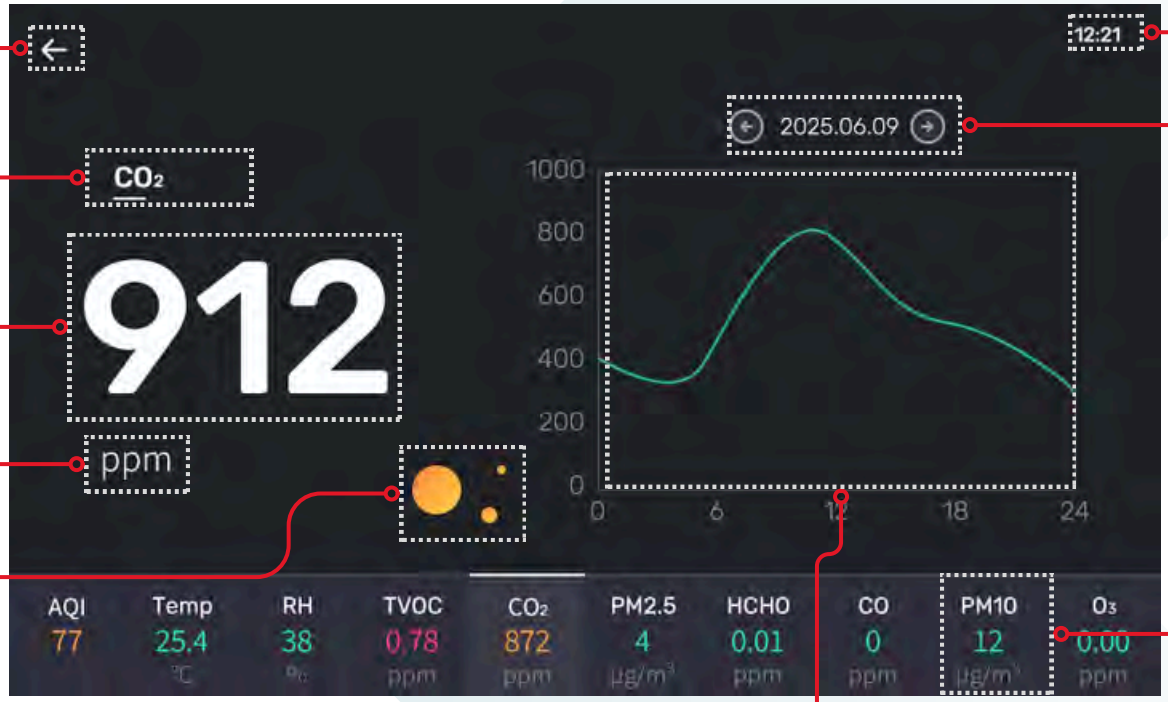
Green/Normal: Concentration is below 80% of the standard (AQI: 0-80).

Orange/Alert: 80% to 120% of standard (AQI 80-120)

Red/Exceed: Above 120% of standard (AQI 120-500)

DETAILS PAGE

From the home screen, tap [Details] to enter this page. Tap [Back] to return home, or [Switch Factor] to view other factors' history."



Back button
- Switch back to home

Factor name

Concentration value
- Display real-time concentration

Concentration unit

Status indicator light

Device time
- Time is displayed in 12-hour format.

Switch date
- Selectable dates include only those in the database
- up to 7 days ago

Switch factor button
- Only active factors shown
- Numbers show real-time values

[Status indicator light] explanation:

- Normal: Concentration below 80% of standard
- Alert: Concentration between 80% and 120% of standard
- Exceed: Concentration above 120% of standard

Historical curve
- Displays 24-hour concentration curve. X-axis: time (00:00–24:00), Y-axis: concentration
- Wait for database to load after boot before viewing or switching curves
- On first boot, wait for 1 hour of data before display starts
- Curve updates hourly and auto-switches to the latest date at midnight

SETTINGS PAGE

From the home screen, tap [Settings] to enter this page. Tap [Back] to return home or select settings to enter subpages.

Back button

- Switch back to home

Exceedance settings

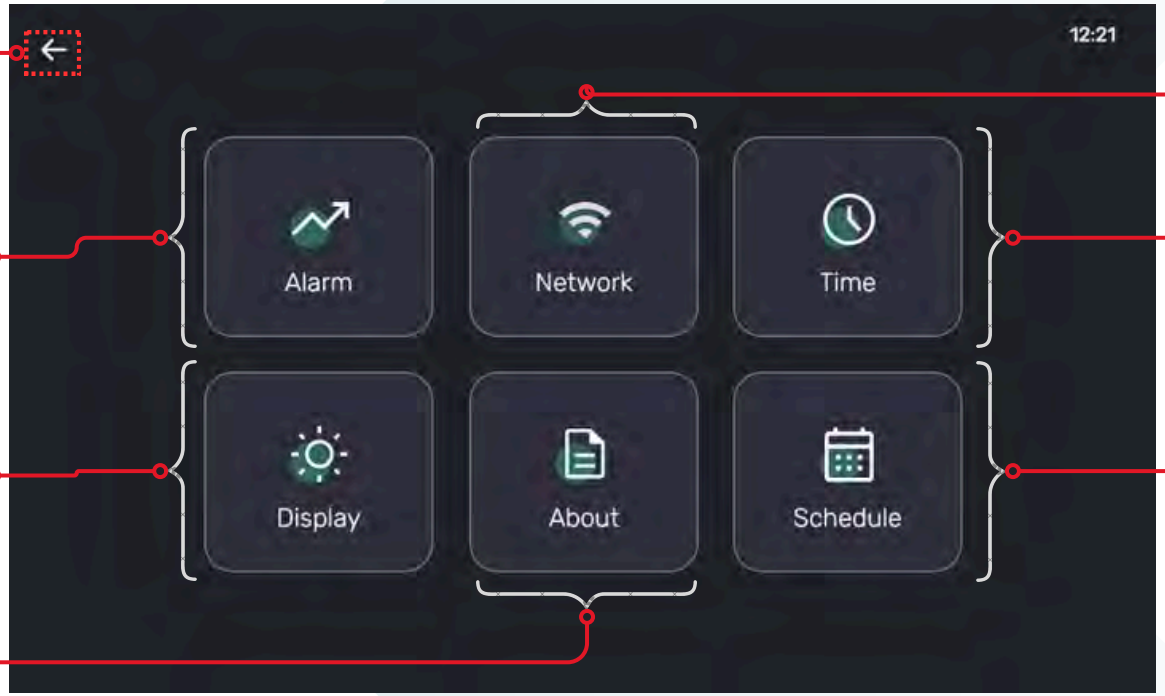
- Adjust exceedance thresholds for each factor.
- These affect only display status, not control functions.
- Defaults follow WHO or EPA standards.

Display settings

- Set screen brightness, language, standby time, and display style.

About page

- Displays software version and serial number



Network information

- Displays network connection status

Time settings

- Set time and time zone

Schedule settings

- Schedule control linkage
- Select a controller to view active schedules (green)
- adjust current status

NOTES:

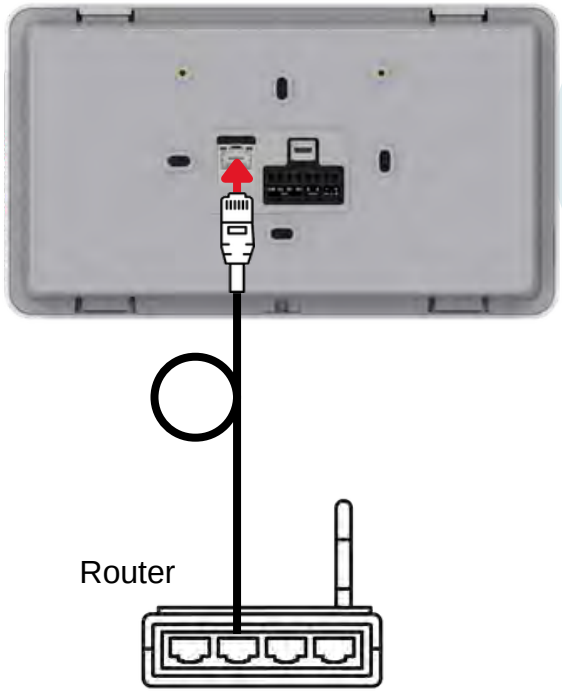
For details on each settings page, please refer to appendix [iAeris6 UI Function Description]

CONNECT TO ETHERNET

iAeris6 has an RJ45 Ethernet port; connect a cable to access the internet

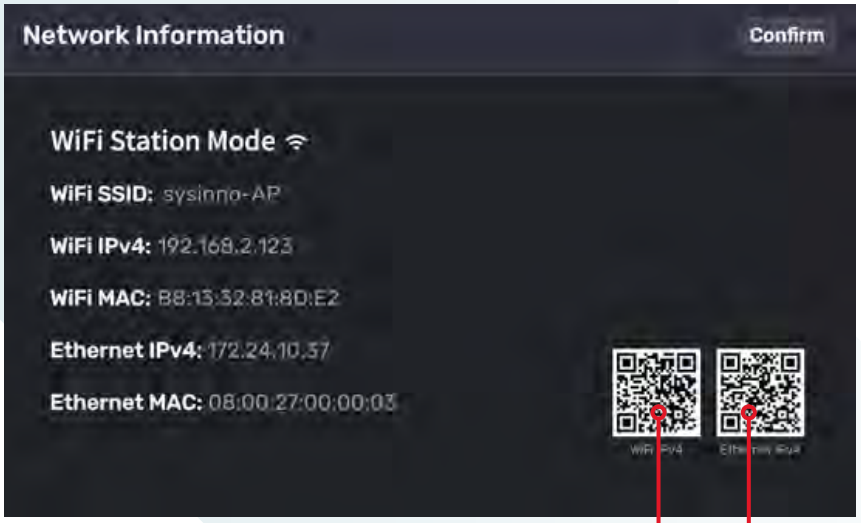
1

For Ethernet, power off iAeris6 and connect the cable to the rear RJ45 port



2

Power on iAeris6 and go to Network Info page.
Confirm the Ethernet IP address to ensure connection. Use this IP to access the settings page [1]



NOTES:

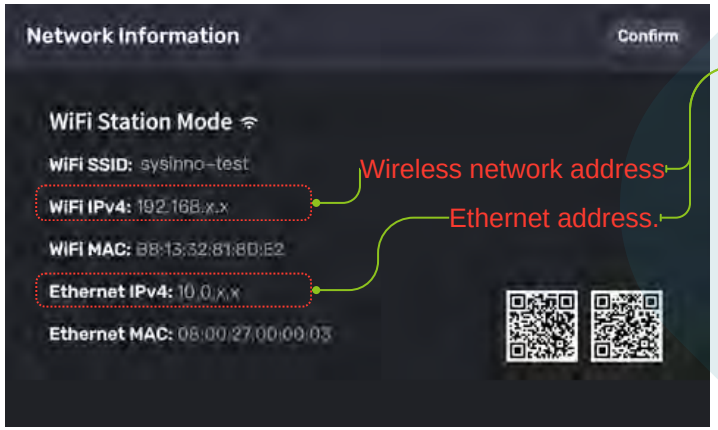
[1]iAeris6 uses DHCP by default. To set a static IP, use the settings webpage.

LOG IN TO THE SETTINGS WEBPAGE

iAeris6 allows remote login via computer or phone when online.

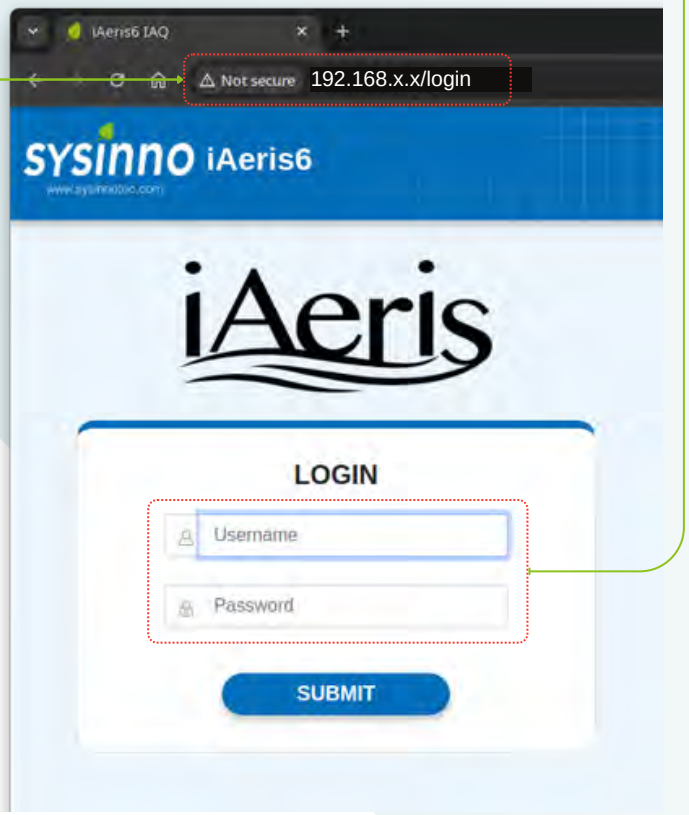
1

Power on iAeris6 and go to Network Info page [1].
Screen shows connection info and IP address [2].



2

Use a computer or phone browser to enter the address ‘http://xx.xx.xx.xx’ [3] to access the settings page.



3

Enter username and password to log in:
Factory default:
username: admin
password: admin

NOTES:

[1] On first use, device enters setup mode. Connect via iAeris6 WiFi or Ethernet.

[2] Connection info shows both WiFi and Ethernet IPs; use either based on your connection.

[3] “http://xx.xx.xx.xx” is an example; enter the actual IP address.

WIFI SETUP PROCESS

After login, go to Menu > Network > WiFi to access WiFi settings

1 Select the WiFi AP you want to connect to

- Note: The displayed AP is the user's WiFi AP. "sysinno-test" is just an example
- If iAeris6 can't find your WiFi AP, you can manually enter the "SSID."

2 Enter the password

- Note: Enter your WiFi AP password.

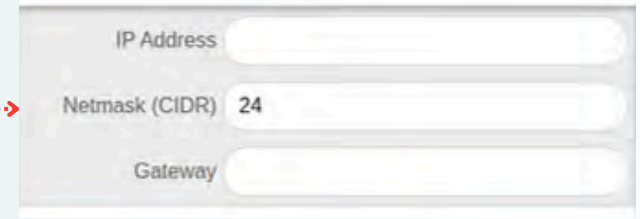
3 Check the settings option

- For 'Upload Cloud' and 'DHCP', refer to the descriptions on the right

4 Once settings are complete, click "Accept"

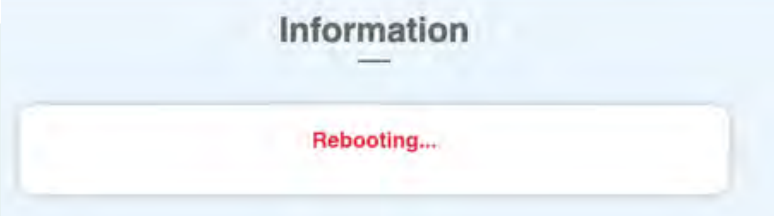
DHCP Enable — Check DHCP to let the AP/router assign an IP address

DHCP Enable — Uncheck DHCP to assign a static IP

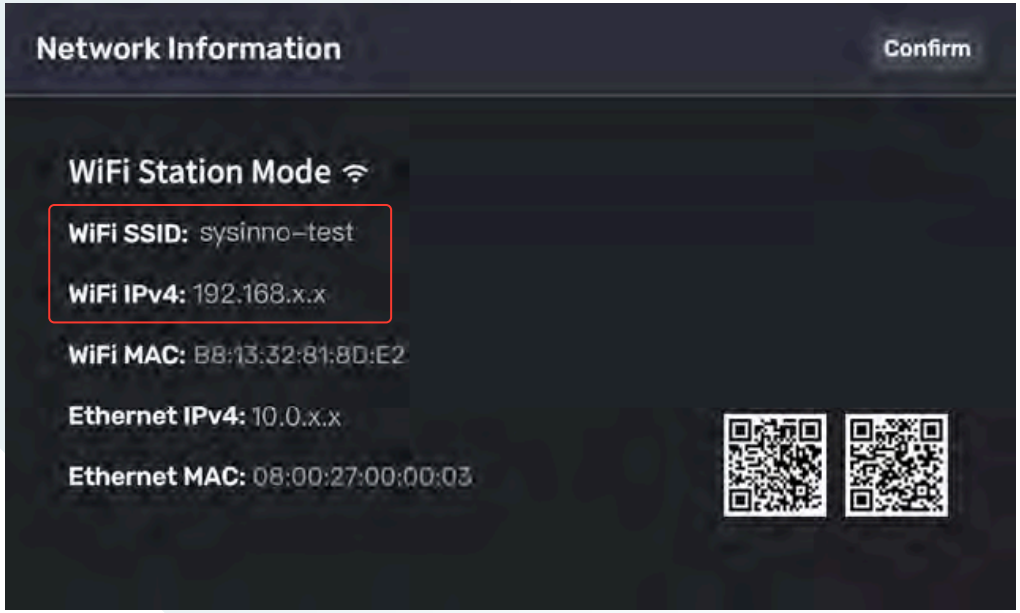


WIFI SETUP PROCESS

5 The system will reboot after completing the setup



6 iAfter Aeris6 restarts, press the multifunction button to check WiFi status on the device info screen [1]



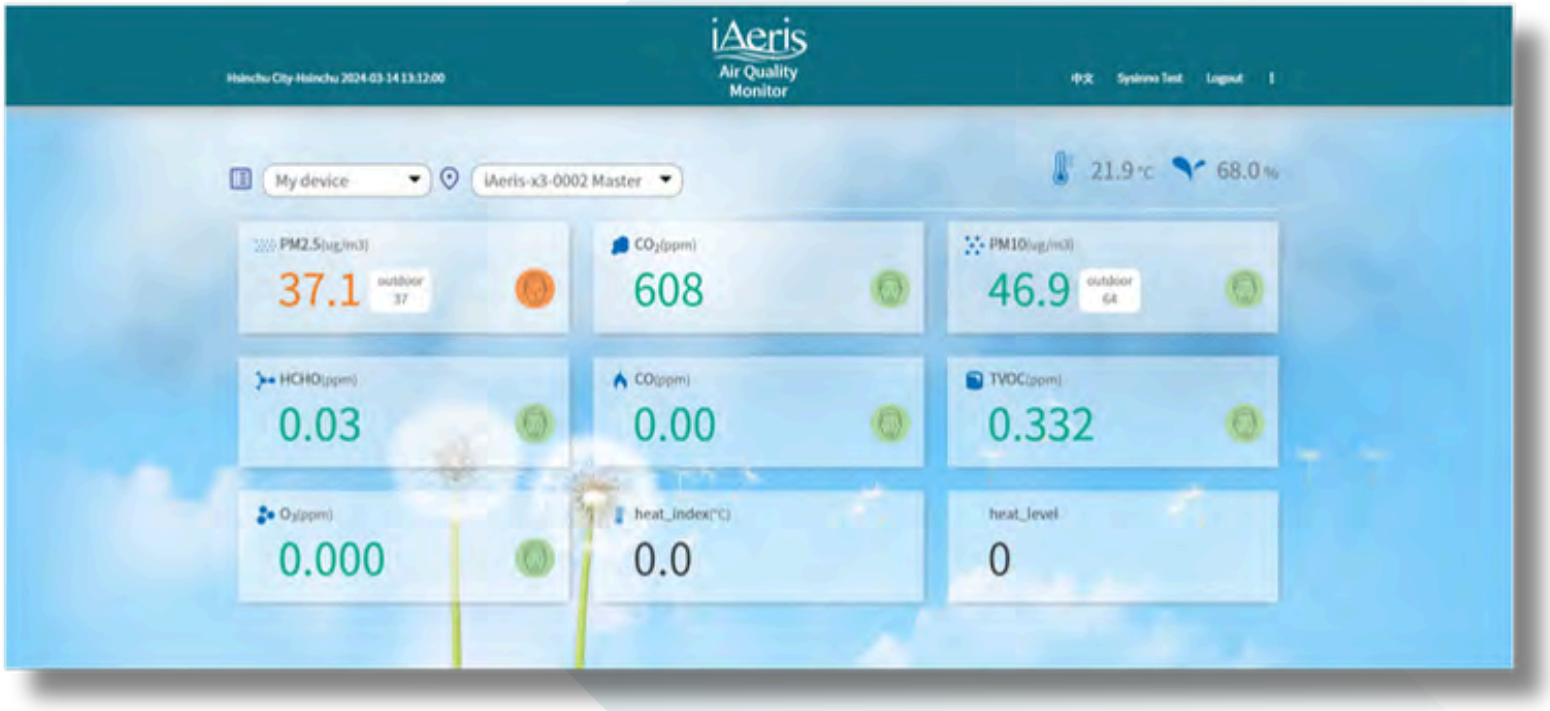
NOTES:

[[1] Successful connection shows an IP address in the wireless network IP field.

If setup fails, hold the multifunction button for 10 seconds to reset, then restart from step 1

CLOUD PLATFORM INTERFACE (OPTIONAL)

Go to https://xsize.net/iaeris/login.php in your browser.



CLOUD PLATFORM INTERFACE (OPTIONAL)

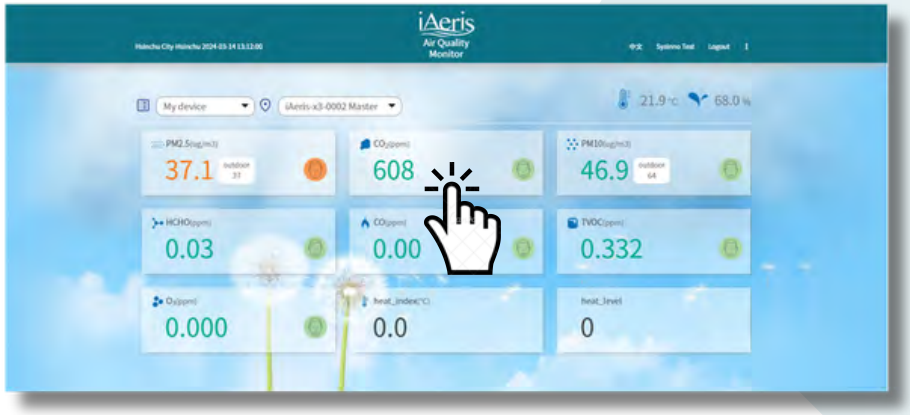
Register Account

CLOUD PLATFORM LOGIN HOMEPAGE

- After registration and login, view the environmental detection values of the selected device
- Data uploads to the cloud platform every six minutes

HISTORICAL DATA TREND CURVE

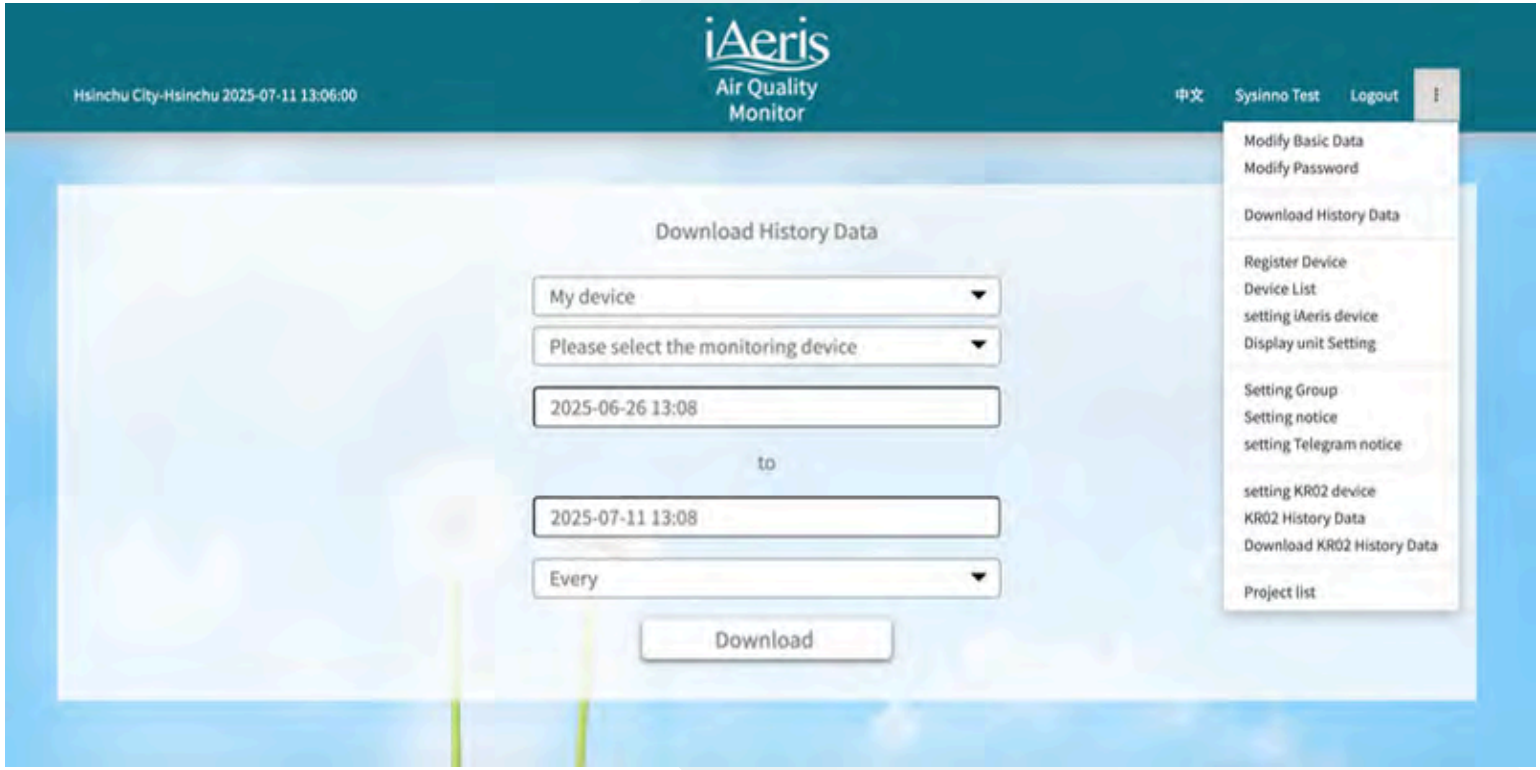
- Click "Environmental Factors" on the homepage to access the historical curve interface.



- This page shows hourly averages and up to seven days of data.

CUSTOMER AREA FUNCTIONALITY

- The cloud platform provides customer-oriented features for easy data recording and management.
- Before service expires, contact the device vendor to purchase additional usage years for continued data download functionality.



INSTALLATION POSITION RECOMMENDATIONS

For accuracy, we recommend installing one detector for every 200 square meters of enclosed space.
For example:

- Each open space of 200 square meters requires one detector.
- Each individual partitioned meeting room or space requires one detector.
- For spaces larger than 200 square meters, consider installing multiple detectors throughout the entire area to achieve optimal coverage.
- Detectors should be installed near indoor areas where people are active or near ventilation (air conditioning) equipment return air vents.

- We recommend installing the detector at a height of 1.5 meters to 2.5 meters.
- Position the detector at least 2 meters away from doors, windows, and air vents.
- Ensure that the device's ventilation holes are not obstructed, allowing for proper airflow.
- To ensure accuracy and longevity, ceiling-mounted installation on the ceiling is not recommended.

PRECAUTIONS

- This product provides general indoor air quality information only and is not intended to determine individual health impacts or serve as a fire alarm.
- Keep the product away from heat sources and areas prone to water splashes or dripping.
- Avoid using the product in environments with vibrations or direct sunlight.
- Ensure proper airflow by not blocking the ventilation holes around the device.
- Do not insert external objects into the ventilation holes to prevent sensor malfunction or electric shock.
- Non-technical personnel should not attempt to disassemble, modify, or repair the product.
- Use correct connectors and cables during installation and avoid forcing connectors into ports to prevent damage not covered by warranty.

【Attention】 Power Supply Notice:

- This product operates on a 12-24V DC power supply. You can either convert AC power to the required voltage or use the provided power adapter.

【Attention】

- This product supports energy recovery ventilation (ERV) and single-directional intake fans. Before purchasing, consult local distributors for compatibility and technical support.
- The control logic for RS485 or dry contact output is fixed and intended only for ventilation equipment control.

Use the correct connectors and ports

- Avoid forcing connections. Check for obstructions. Ensure proper alignment.
- Damage from mishandling, like inserting wrong pins, isn't covered by warranty.

Power Supply Specifications:

This product can be powered by the included an adapter or a 24VDC power source. The included transformer outputs 5V via a Micro USB connector. If using a 24VDC power source, convert mains power to 12-24V before wiring it to the rear port.

Dry Contact Specifications:

The dry contact is a passive NO switch. AC rated voltage withstands 125V at 0.3A, and DC withstands 30V at 1A.

Prohibition of Hot Wiring

When changing the power source or port terminals, be sure to cut off power before wiring adjustments, and reconnect power only after completing the setup.

FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT

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.

Class B Equipment Notice

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.

⚠ **FCC Caution**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RF Exposure Warning

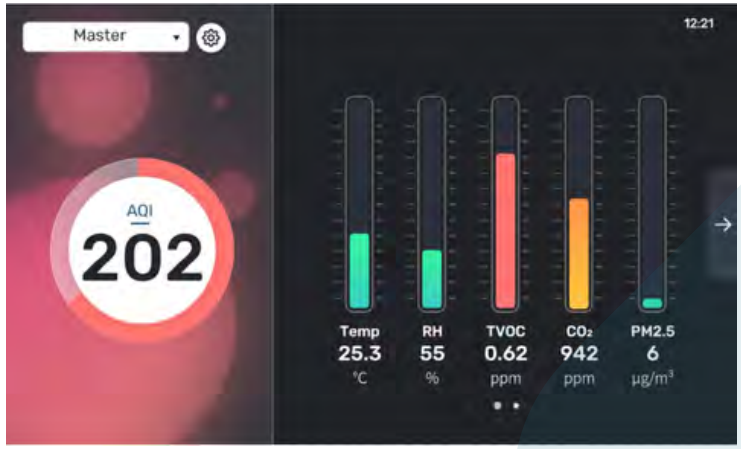
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

APPENDIX: IAERIS6 UI FUNCTION DESCRIPTION

Contents

1. **Home Page**
   - Function Description
   - Button Description
   - Other Details
2. **Sensor Factor Details**
   - Function Description
   - Button Description
   - Other Details
3. **Options Page**
   - Exceedance Setting
   - Network Information
   - Time Setting
   - Display Setting
   - About Page
   - Schedule Setting
     - Control Page
     - Schedule List
     - Schedule Detail Setting
4. **Advanced Settings**
   - Function Description
   - Button Description
   - Sub Unit Settings
     - Sub Unit Functions and Modes
     - Sub Unit Sensors
     - Sub Unit Controllers
     - Sub Unit Controller - Advanced Linking Settings
     - Sub Unit Controller - Linked Devices
     - Sub Unit Controller - Linked Sensor Factor List
     - Sub Unit Controller - Linked Sensor Factor Parameters

1. HOME PAGE



AQI and Sensor Factor Status Color Description

Green / Normal: Less than 80% of the set threshold value (AQI: 0 ~ 100)

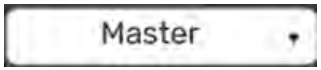
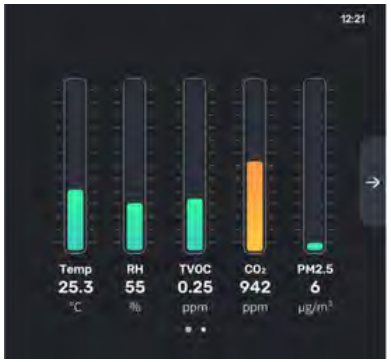
Orange / Warning: Between 80% and 120% of the set threshold value (AQI: 101 ~ 200)

Red / Exceeded: Greater than 120% of the set threshold value (AQI: 201 ~ 500)

Function Description

Function Item	Description
Sensor Value Display	Displays the values of each sensing factor according to the number of sensors set on the current device.
AQI Status Display	The color of the fan-shaped gauge changes based on the set AQI threshold values.
Factor Display Arrangement	The number of sensing factors shown on the right side changes according to the settings. Each page can display up to five factors, arranged sequentially.

Button Description

Button	Name	Function Description
	Dropdown Menu – Display Device	Select which device's sensor data will be shown on the "Home" and "Sensor Factor Details" pages. • The options include only currently connected devices. • If no sub-devices are connected, this button will automatically disappear.
	Menu	Switches the page to the "Options" page.
	Sensor Factor Details Button	Switches the page to the "Sensor Factor History Data" page.
	Factor Swipe	Switches the sensor factors displayed on the Home page. When there are more than five sensor factors, you can swipe left or right in the factor area to view other sensor factors.

Other Details

<table>
<tr><td>Time Display</td><td>• Time is shown in the 12-hour format.</td></tr>
<tr><td>AQI Display</td><td>• Due to layout constraints, the AQI value will still be displayed and calculated even if it is set to “Off.”</td></tr>
<tr><td>Sensor Factor Bar Indicator Rule</td><td>Calculation Method:
• The exceedance value is divided into three ranges, using 80% and 120% of the threshold as boundary points.
• Values within each range are evenly distributed proportionally.

For example, with a temperature sensor (upper limit: 100°C, lower limit: 0°C, threshold: 40°C):
<table>
<tr><th>Color</th><th>Status</th><th>Calculation Formula</th><th>Actual Range</th></tr>
<tr><td>Green</td><td>Normal</td><td>0 ~ (40 x 0.8)</td><td>0 ~ 32°C</td></tr>
<tr><td>Orange</td><td>Warning</td><td>(40 x 0.8) ~ (40 x 1.2)</td><td>32 ~ 48°C</td></tr>
<tr><td>Red</td><td>Exceeded</td><td>(40 x 1.2) ~ 100</td><td>48 ~ 100°C</td></tr>
</table></td></tr>
</table>

[Return to Menu]

2. SENSOR FACTOR DETAILS

Function Description

- Shows the selected sensor value and its history. Other sensors appear below and can be tapped to view.

Exceedance Status Indicator

Icon	Status	Description
	Normal	Less than 80% of the set threshold
	Warning	Between 80% and 120% of the set threshold
	Alarm	Greater than 120% of the set threshold

Button Description

Button	Name	Function Description
	Back to Home	Swith the Home page.
2025.06.09	History Date	Switch the history curve date. Only dates with stored history data are selectable.
AQI Temp RH TVOC CO₂ PM2.5 HCHO CO PM10 O₃ 77 25.4 38 0.78 872 4 0.01 0 12 0.00	Sensor Factor Switch	Switch the main displayed sensor factor. Only enabled sensor factors can be selected.

Other Details

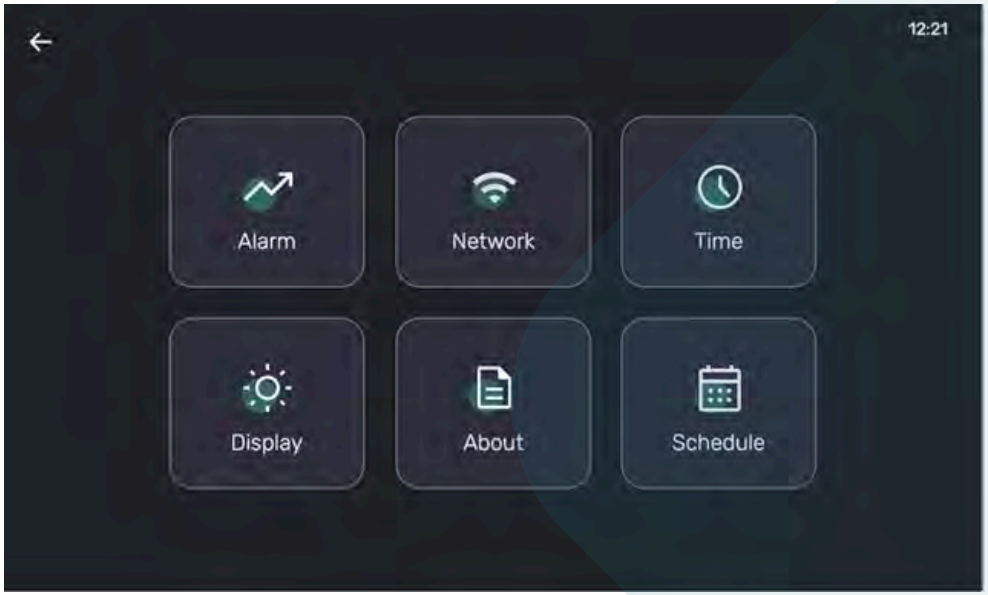
Time Display	• Time is shown in the 12-hour format.
History Curve	• The database must finish loading before history curves can be displayed or switched. • On first device startup, history curves appear only after one hour of data is available. • Once history curves are displayed, manually refreshing the last data point (current hour) will animate based on existing data. • Curves automatically refresh every hour. When the date changes at midnight, the display automatically switches to the latest date.

[Return to Menu]

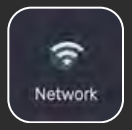
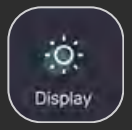
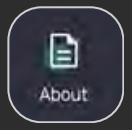
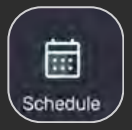
3. OPTIONS PAGE

Function Description

- Access specific functions of the selected device



Button Description

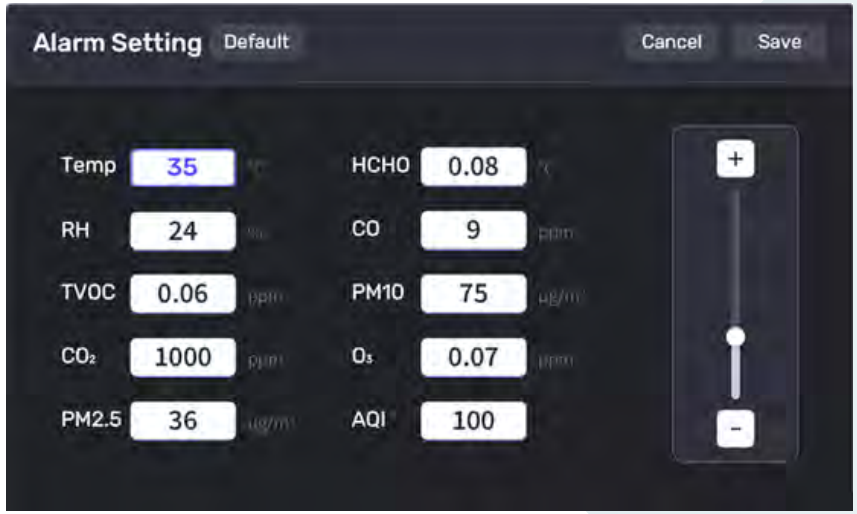
Button	Name	Function Description
	Alarm Setting	Go to "Alarm Setting" page
	Network Information	Go to "Network Information" page
	Time Setting	Go to "Time Setting" page
	Display Setting	Go to "Display Setting" page
	About Page	Go to "About" page
	Schedule Setting	Go to "Schedule Setting" page
	Back Button	Return to the "Home" page

[Return to Menu]

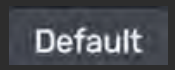
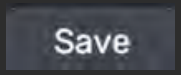
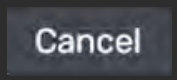
3. OPTIONS PAGE – ALARM SETTING

Function Description

- Set the sensor factor alarm value. Note: This value is for display only and does not affect control.



Button Description

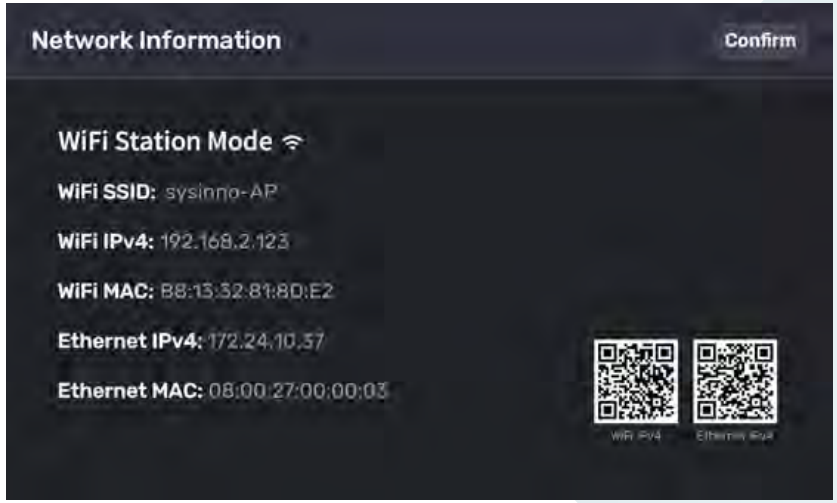
Button	Name	Function Description
	Alarm Value	After selecting this item. Use the "Value Adjustment" buttons to modify the alarm value
	Adjust Value	Modify the currently selected item
	Factory Reset	Reset all settings on this page to their default values
	Save	save and go back to Options page
	Cancel	discard and go back to Options page

[Return to Menu]

3. OPTIONS PAGE – NETWORK INFORMATION

Function Description

- Displays the current device's network connection status



Button Description

Button	Name	Function Description
Confirm	Confirm	Back to Options page

Other Details

- Connected WiFi/Ethernet IPs are shown at the bottom-right on QR Core.
- If both are disconnected, the page is unavailable from Function Page.

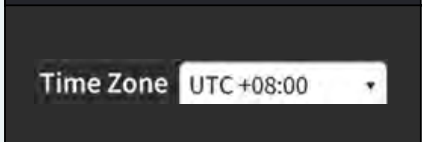
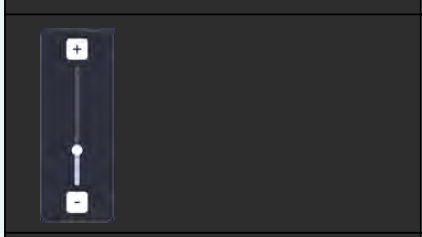
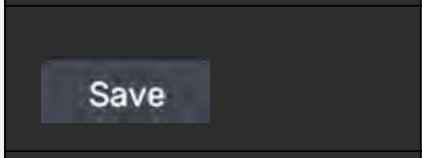
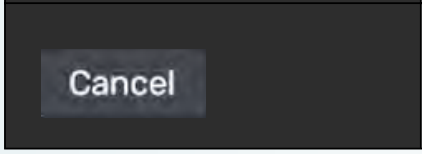
[Return to Menu]

3. OPTIONS PAGE - TIME SETTING

Function Description

- Set Device Time and Time Zone

Button Description

Button	Name	Function Description
	Time Option	Tap to select and modify the time
	Time Zone Menu	Select the time zone
	Adjust Value	Adjust the currently selected time item
	Save	save and go back to Options page
	Cancel	discard and go back to Options page

Other Details

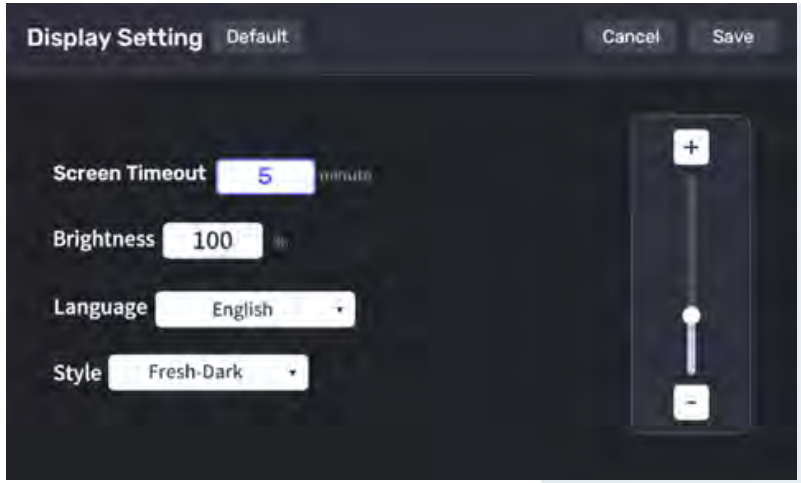
- Device time affects data storage and upload

[Return to Menu]

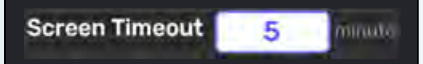
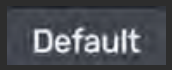
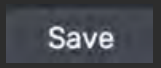
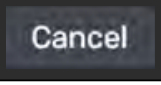
3. OPTIONS PAGE - DISPLAY SETTING

Function Description

- Set display brightness, language, standby time, and style



Button Description

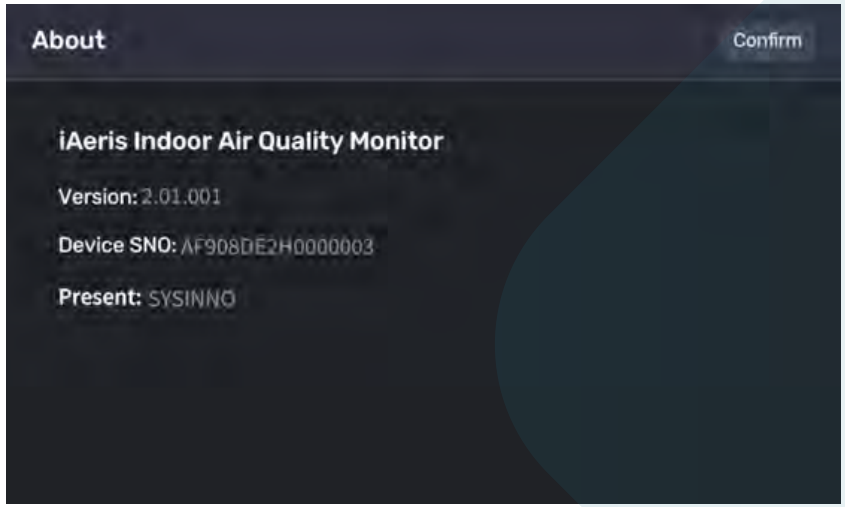
Button	Name	Function Description
	Standby Time	After selecting this item, use the “Adjust Value” button to modify the standby time. • Setting it to the maximum value will disable the screen standby function.
	Screen Brightness	After selecting this item, use the “Adjust Value” button to change the screen brightness. • The minimum brightness is 10% to prevent operational issues.
	Language Selection	Select the iAeris6 UI display language. Currently, only Traditional Chinese and English are supported.
	Display Style	Select the iAeris6 UI display style and color.
	Adjust Value	Adjust the currently selected time item.
	Factory Reset	reset current page to defaults
	Save	save and go back to Options page
	Cancel	discard and go back to Options page

[Return to Menu]

3. OPTIONS PAGE - ABOUT PAGE

Function Description

- Show device version, main device serial number, and company name.



Button Description

Button	Name	Function Description
Confirm	Confirm	Back to Options Page

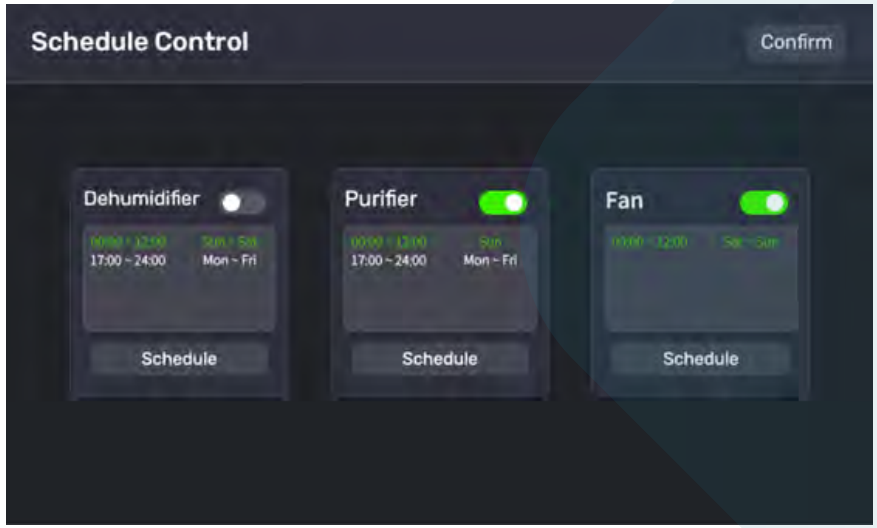
[Return to Menu]

3. OPTIONS PAGE - SCHEDULE SETTING

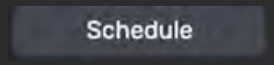
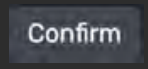
Control Page

Function Description

- Select a control device to view active schedules (green) and adjust controller on/off status.



Button Description

Button	Name	Function Description
	Controller Switch	Turn the selected controller on or off
	Controller Schedule	Go to the confirmation page, then return to the "Schedule List"
	Confirm	Return to the "Options Page"

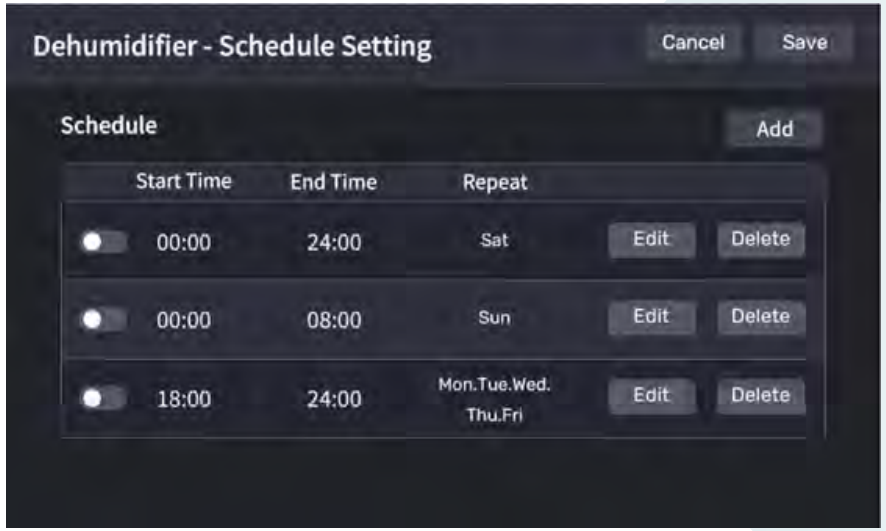
[Return to Menu]

3. OPTIONS PAGE - SCHEDULE SETTING

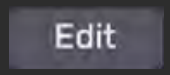
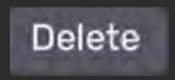
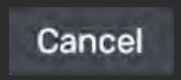
Schedule List

Function Description

- Lists all schedules for the selected controller; use buttons to Add, Edit, or Delete.



Button Description

Button	Name	Function Description
	Controller Switch	Turn the selected controller on or off.
	Edit	Go to "Schedule Detail Setting" to edit an existing schedule
	Delete	Delete the selected schedule (changes apply after saving)
	Add	Go to "Schedule Detail Setting" to create a new schedule
	Cancel	Discard current settings and return to the Control Page.
	Save	Save current settings and return to the Control Page.

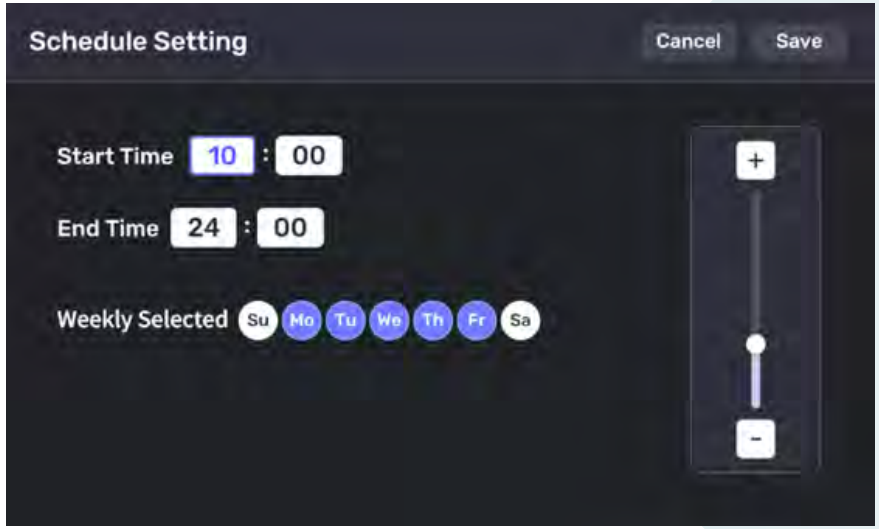
[Return to Menu]

3. OPTIONS PAGE - SCHEDULE SETTING

Schedule Detail Setting

Function Description

- Set Start Time, End Time, and Repeat Days for the selected schedule



Button Description

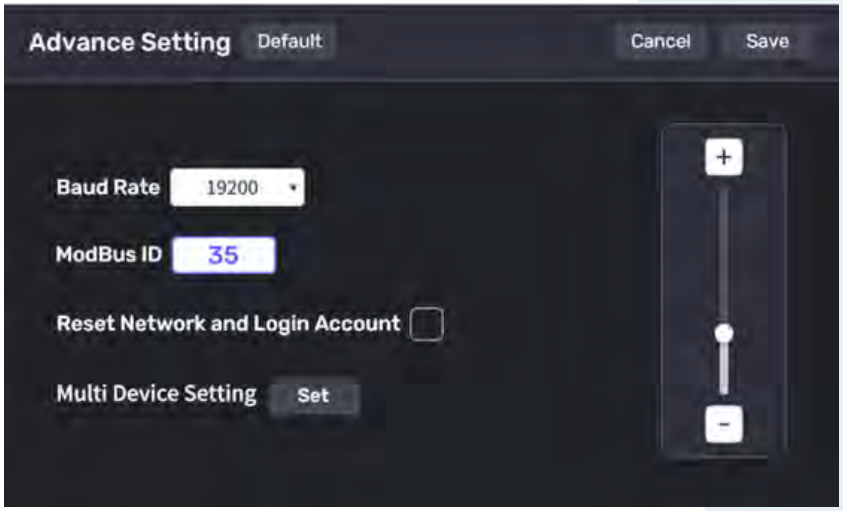
Button	Name	Function Description
Start Time 10 : 00	Start Time	Set the start time for the selected schedule using the “Adjust Value” button.
End Time 24 : 00	End Time	Set the end time for the selected schedule using the “Adjust Value” button.
Weekly Selected Su Mo Tu We Th Fr Sa	Select Days	Tap the days of the week on which the current schedule should repeat.
+ -	Adjust Value	Adjust the value of the currently selected item.
Cancel	Cancel	Discard current settings and return to the Control Page.
Save	Save	Save current settings and return to the Control Page

[Return to Menu]

4. ADVANCED SETTINGS

Function Description

- Press and hold the multifunction button on the left side of the iAeris6 casing for 10 seconds to enter the Advanced Settings page.
- From here, you can set the device's RS485 Baud Rate and Modbus ID, reset the network connection, and access the Main/Sub-device Settings page.



Button Description

Button	Name	Function Description
Baud Rate 19200	BaudRate	Press the dropdown menu and select a supported device Baud Rate.
ModBus ID 35	ModbusID	After selecting this item, use the "Adjust Value" button to modify the Modbus ID.
Reset Network and Login Account	Reset Network	Check to reset network settings
Multi Device Setting Set	Multi Device Setting	Navigate to the "Multi Device Settings" page.
+ -	Adjust Value	Adjust the currently selected item.
Default	Factory Reset	Reset all configurable items on the current page to their default values.
Save	Save	Save the current page settings and return to the Options Page
Cancel	Cancel	Discard changes and return to the Options Page

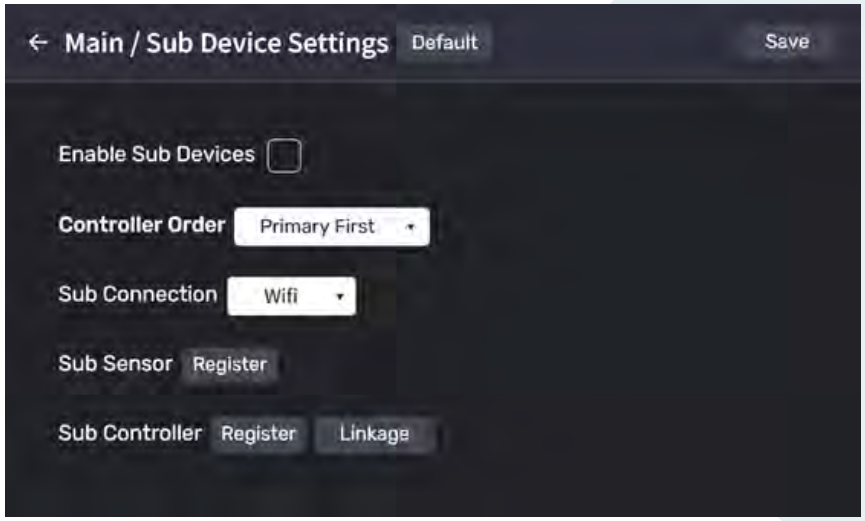
[Return to Menu]

4. ADVANCED SETTINGS – SLAVE SETTINGS

Slave-device Functions and Modes

Function Description

- On this Main/Sub-device Page, you can enable or disable Main/Sub-device functionality (switching this device to Main mode) and select the connection method after switching. From here, you can also access settings for Sub-device sensors and Sub-device controllers, including various detailed configurations.



Button Description

Button	Name	Function Description
←	Back	Discard current page settings and return to the Advanced Settings Page
Default	Factory Reset	Reset the current page's configurable items to default values.
Save	Save	Save the current page settings and return to the Advanced Settings Page
Master Mode	Master Mode Switch	Set whether to switch the device to Master mode, which links with slave sensors and controllers (*see other details).
Link Mode Wifi	Connection Mode	Set the connection method to use with Slave devices when in Master mode.
Sub Sensor Register	Set Sub Sensor	Discard current page settings and go to the Sub Sensors page
Sub Controller Register Linkage	Set Sub-device Controllers	Discard current page settings and go to the Sub Controllers or Controller Detial Settings page

[Return to Menu]

4. ADVANCED SETTINGS – SUB-DEVICE SETTINGS

Sub-device Functions and Modes

Other Details

Main/Sub-device Function Settings : When Main/Sub-device functionality is enabled, the iAeris6 switches to Master mode according to the selected connection mode, and connects to Sub-devices (sensors/controllers) as configured.

- RS485 Mode
- WiFi Mode

Mode	RS485	WiFi
Connection Settings	On the current page, check the **"Master Mode"** button, set the **connection mode to RS485**, and press Save. If the device was originally in Slave -device mode, it will **restart**, and the following settings can be applied after the device reboots.	On the current page, check the **"Master Mode"** button, **set the connection mode to WiFi,** and press save. If the device was originally in Slave-device mode, it will **restart,** and the following settings can be applied after the device reboots.
Sub-device Related Parameters	1. Use the "Set Sub-device Sensors" button to enter the Sub-device Sensors page 2. Enable the device 3. Set the device ModbusID (first verify and configure the physical Sub-device's Modbus ID, then set it here to match)	1. Use the "Set Sub-device Sensors" button to enter the Sub-device Sensors page 2. Enable the device. 3. Set the device ModbusID (first verify and configure the physical Sub-device's Modbus ID, then set it here to match) 4. Set the device's IP address in the network domain.
Notes	• The device must connect via the rear RS485 wiring to communicate with the iAeris device. • In this mode, RS485-related functions are disabled (cannot connect to the "iAerisSW" software or communicate via Modbus). This restriction is temporarily lifted only when entering the Advanced Settings page by long-pressing the button on the left side of the device.	• Ensure the iAeris6 Main device and the pre-connected devices are on WiFi and within the same network domain.

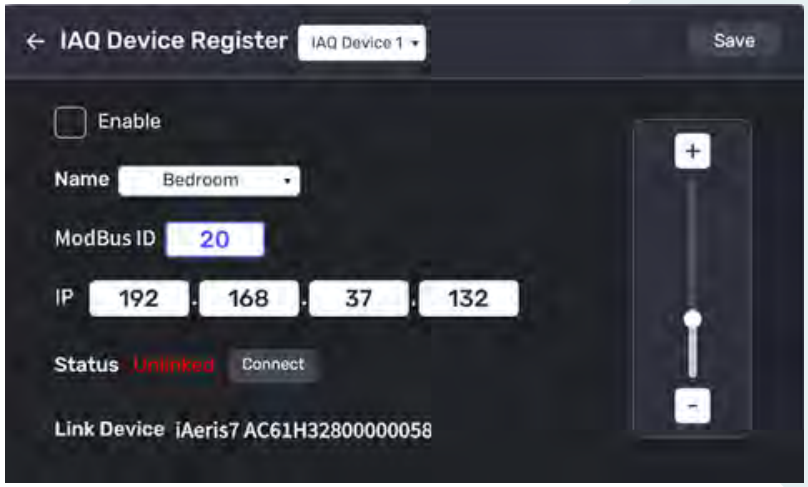
[Return to Menu]

4. ADVANCED SETTINGS – SUB DEVICE SETTINGS

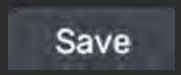
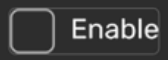
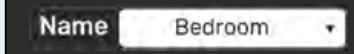
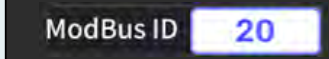
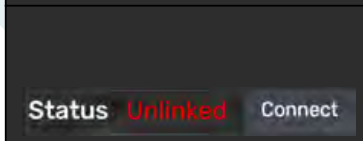
Sub-device Sensors

Function Description

- Use the dropdown menu at the top of the page to select the Slave-device sensor to configure. Detailed settings include Enable, Sensor Name, Modbus ID, and Network IP. You can use the Connect button to check if the device is currently reachable. If connected successfully, the status field below will display the device model and serial number.



Button Description

Button	Name	Function Description
	Back	Discard current page settings and return to Sub-device Functions and Modes
	Set Slave-device Sensor	Select the current Slave-device controller order to configure.
	Save	Save the current page settings and return to Sub-device Functions and Modes
	Enable	Check to enable the currently selected sensor.
	Sensor Alias	Set the alias for the currently selected sensor.
	ModbusID	Configure the Modbus ID for the currently selected sensor.
	Network IP	Configure the network IP for the currently selected sensor.
	Test Connection	Attempt to connect to the Sub-device using the configured Modbus ID and Network IP. If successful, the device type and serial number will be displayed below.
	Adjust Value	Set the currently selected item and adjust its value using the Adjust Value button.

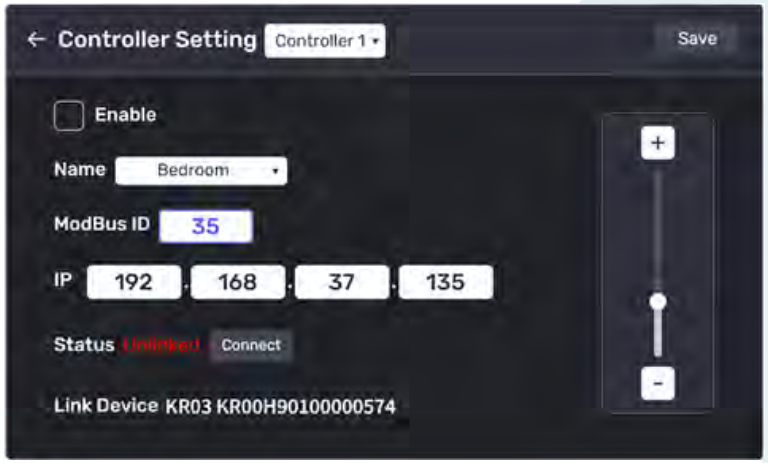
[Return to Menu]

4. ADVANCED SETTINGS – SUB DEVICE SETTINGS

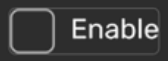
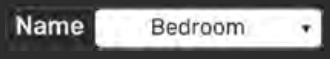
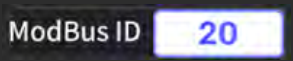
Sub-device Controllers

Function Description

- Use the dropdown menu at the top of the page to select the Sub-device controller to configure. Detailed settings include Enable, Controller Name, Modbus ID, and Network IP. You can use the Connect button to check if the device is currently reachable. If connected successfully, the status field below will display the device model and serial number.



Button Description

Button	Name	Function Description
	Back	Discard current page settings and return to Sub-device Functions and Modes
	Set Slave-device Controller	Select the current Slave-device controller order to configure.
	Save	Save the current page settings and return to Sub-device Functions and Modes
	Enable	Check to enable the currently selected controller.
	Controller Alias	Set the alias for the currently selected controller.
	ModbusID	Configure the Modbus ID for the currently selected controller.
	Network IP	Set the network IP for the currently selected controller.
	Test Connection	Attempt to connect to the Slave-device using the configured Modbus ID and Network IP. If successful, the device type and serial number will be displayed below.
	Adjust Value	Set the currently selected item and adjust its value using the Adjust Value button.

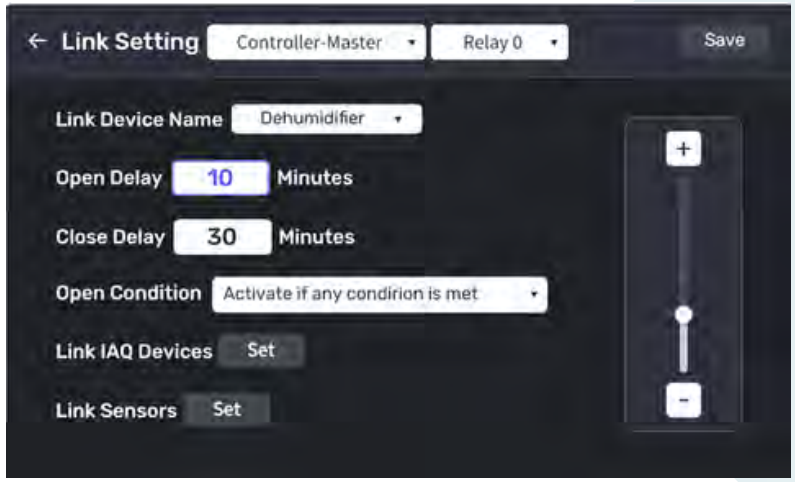
[Return to Menu]

4. ADVANCED SETTINGS – SUB DEVICE SETTINGS

Sub-device Controller – Advanced Linking Settings

Function Description

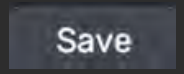
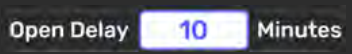
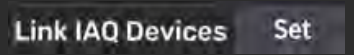
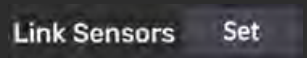
- Use the dropdown menu at the top of the page to select the Sub-device controller and its switch (dry contact). Detailed settings include Linked Device Name (Switch Name), On/Off Delay Time, and Activation Conditions. At the bottom of the page, you can access settings for the controller's linked sensors and sensor factors.



	Adjust Value	Set the currently selected item and adjust its value using the Adjust Value button.

[Return to Menu]

Button Description

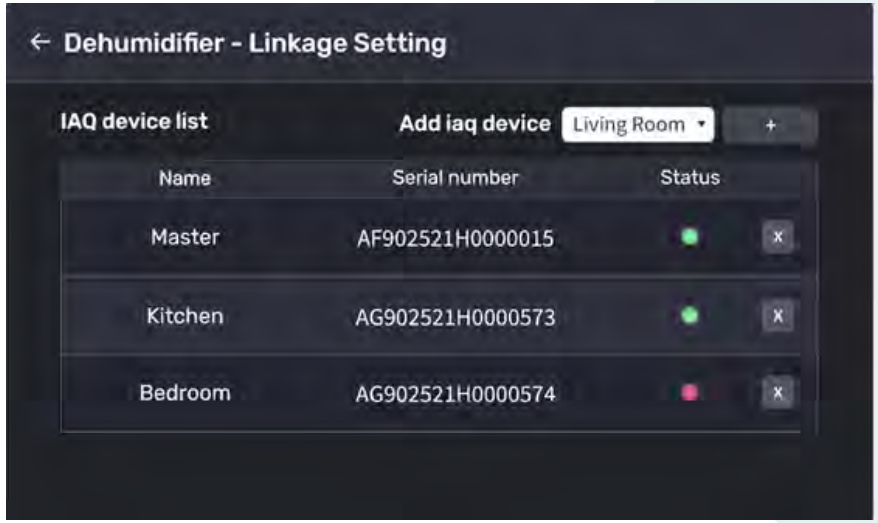
Button	Name	Function Description
	Back	Discard current page settings and return to Sub-device Functions and Modes
	Set Linked Controller Switch	Select the current Slave-device controller switch (dry contact) to configure.
	Save	Save the current page settings and return to Sub-device Functions and Modes.
	Switch Alias	Set the alias for the currently selected controller switch.
	On Delay	Set the on-delay time for the currently selected controller switch.
	Off Delay	Set the off-delay time for the currently selected controller switch.
	Activation Condition	Set the activation logic for the currently selected controller switch.
	Linked Sensors	Set the sensors associated with the currently selected controller.
	Linked Sensor Factors	Set the sensor factors associated with the currently selected controller switch.

4. ADVANCED SETTINGS – SUB DEVICE SETTINGS

Sub-device Controller – Linked Devices

Function Description

- Set the linked sensor devices for the selected Sub-device controller switch (dry contact). This page lists all currently linked devices. You can use the "+" button to add new links and the "–" button to remove existing links between the controller switch and devices.



Button Description

Button	Name	Function Description
←	Back	Save the current page settings and return to Sub-device Controller – Advanced Linking Settings.
Add iaq device Living Room +	Add Linked Sensor	Add the Sub-device sensor selected from the dropdown menu to the linking list.
x	Remove Linked Sensor	Delete the selected sensor from the linking list.

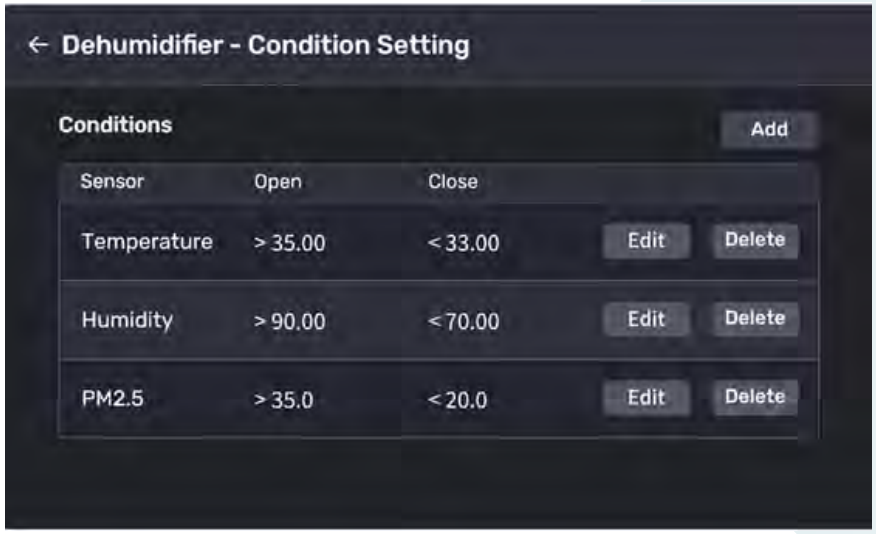
[Return to Menu]

4. ADVANCED SETTINGS – SUB DEVICE SETTINGS

Sub-device Controller – Associated Sensor Factor List

Function Description

- Set the linked sensor factors for the selected Slave-device controller switch (dry contact). This page lists all currently linked factors. Use the “Add” button to go to the Linked Condition Details page for configuration, or use the “Delete” button to remove a factor’s link with the current controller switch.



Button Description

Button	Name	Function Description
←	Back	Save the current page settings and return to Sub-device Controller – Advanced Linking Settings
Add	Add	Switch to the [Sub-device Controller – Linked devices] page. After completing and saving the settings, the newly configured factor will be added to the current linked controller switch list.
Edit	Edit	Switch to the [Sub-device Controller – Linked devices] page. After completing and saving the settings, the modified factor will update in the current linked controller switch list.
Delete	Delete	Remove the selected sensor factor link from the current controller switch’s linked factors list.

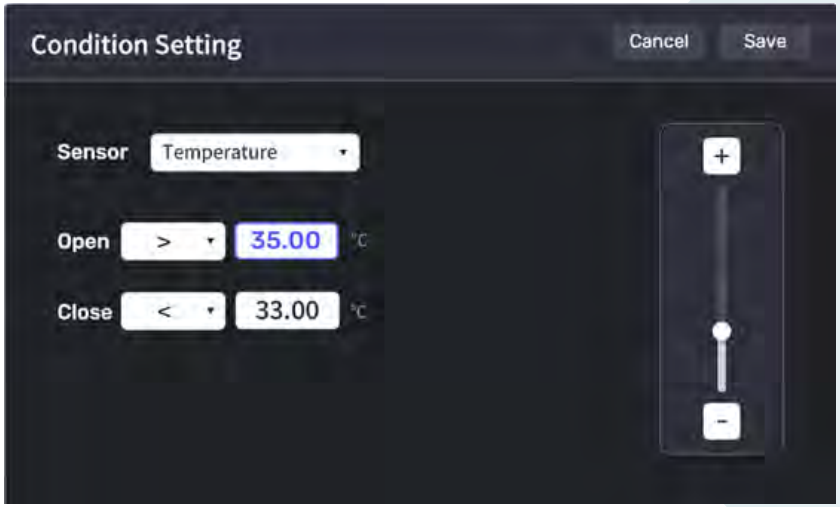
[Return to Menu]

4. ADVANCED SETTINGS – SUB DEVICE SETTINGS

Sub-device Controller – Associated Sensor Factor List

Function Description

- Configure the parameters for the factors associated with the selected sub controller's switch (dry contact), including "Sensor Factor Item," "On Condition," and "Off Condition.



Button Description

Button	Name	Function Description
Cancel	Cancel	Discard current page settings and return to Associated Sensor Factor List
Save	Save	Save the current page settings and return to Associated Sensor Factor List
Sensor Temperature	Sensor Factor	Configure the sensor factor for the selected linked item.
Open > 35.00 ℃	On Condition	Set the condition to determine whether the sensor factor should activate (Off has priority over On).
Close < 33.00 ℃	Off Condition	Set the condition to determine whether the sensor factor should deactivate (Off has priority over On).
+ -	Adjust Value	Set the currently selected item and adjust its value using the Adjust Value button.

[Return to Menu]

APPENDIX: IAERIS6 LOGIN SETTINGS

Contents

- Login Settings Page
  - Different modes require different Username and Password.
- Message Page
  - Explanation of terms in the diagram.
- Display Settings Interface
  - Explanation of terms in the diagram.
- Network – Wireless
  - Explanation of terms in the diagram.
- Network – Ethernet
  - Explanation of terms in the diagram.
- Network Upload
  - SYSINNO cloud (HTTP)
  - SYSINNO cloud (MQTT)
  - Custom cloud (HTTP)
  - Custom cloud (MQTT)
- Change Password
  - Explanation of terms in the diagram.
- Data Download
  - Explanation of terms in the diagram.
- Time Settings
  - Explanation of terms in the diagram.
- Advanced Settings
  - Explanation of terms in the diagram.
  - Modbus RTU (RS-485)
  - Cloud Data Upload Settings (Engineer Mode)
  - Master Mode
- Schedule Settings
  - Explanation of terms in the diagram.
- Adjust Settings
- Alarm Settings
- Update Settings
  - Explanation of terms in the diagram.
- Other Options Introduction

LOGIN SETTINGS PAGE

Use a computer or mobile device web browser. In the address bar, enter the web address [http://xx.xx.xx.xx」,
[1] to access the iAeris6 login page, as shown below.

[1] : 「http://xx.xx.xx.xx」 is for illustration only; the user should enter the actual IP address.

Enter different Username and Password for different modes

- Normal Mode – factory defaults as follows.

```
Username:admin
Password:admin
```

- Engineer Mode – Username is fixed; Password is based on the device model and the last four digits of the machine's Ethernet MAC address.

```
Username:sysinnoOS
Password:iAeris6A1B2 [2]
```

[2] : The password is "iAeris6" plus the last four digits of the device's Ethernet MAC address.
For example, if the last four digits of the MAC address are "A1B2", the password should be entered as "iAeris6A1B2".

[Return to Menu]

MESSAGE PAGE

The Message Page provides information about the iAeris6 device, as shown below.

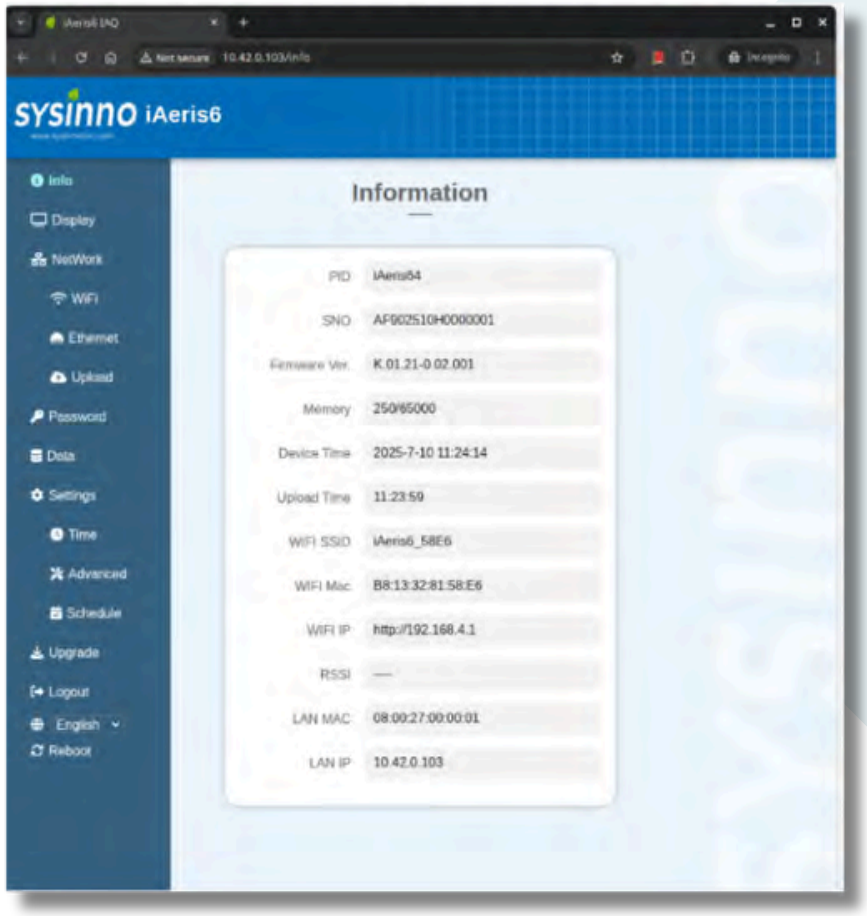


Diagram Term Explanations

- Product Name: Model of this device (iAeris6) and the number of built-in air sensors.
- Product Serial Number: Each device has a unique 15-character serial number.
- Firmware Version: The version of the installed program on the device.
- Memory: Left value = number of air sensor data entries stored; Right value = maximum storage capacity. When data exceeds the limit, older entries are overwritten in a circular manner.
- Device Time: The RTC (real-time clock) time of the device.
- Upload Time: Time of the last data successfully uploaded to the cloud server.
- Wi-Fi Network Name: SSID of the currently connected wireless network.
- Wi-Fi MAC Address: MAC address of the built-in Wi-Fi module.
- Wi-Fi IP Address: IP address obtained by the Wi-Fi module.
- Ethernet MAC Address: MAC address of the built-in Ethernet port.
- Ethernet IP Address: IP address obtained by the Ethernet port.

[Return to Menu]

DISPLAY SETTINGS INTERFACE

This page provides options for configuring the device display interface.

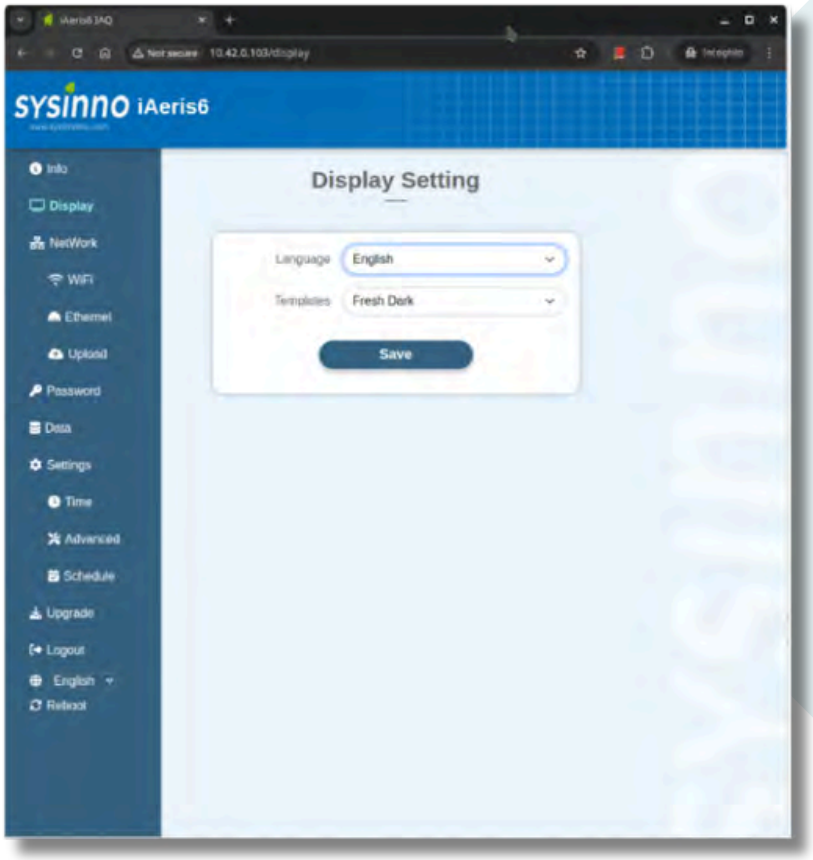


Diagram Term Explanations

- Language: Select the device display language.
- Theme: Select the device display theme:
  - Classic
  - Fresh - Light
  - Fresh - Dark

[Return to Menu]

NETWORK – WIRELESS

This page allows the device's Wi-Fi module to connect to an external router. Fill in the required fields and press Agree to complete the setup.

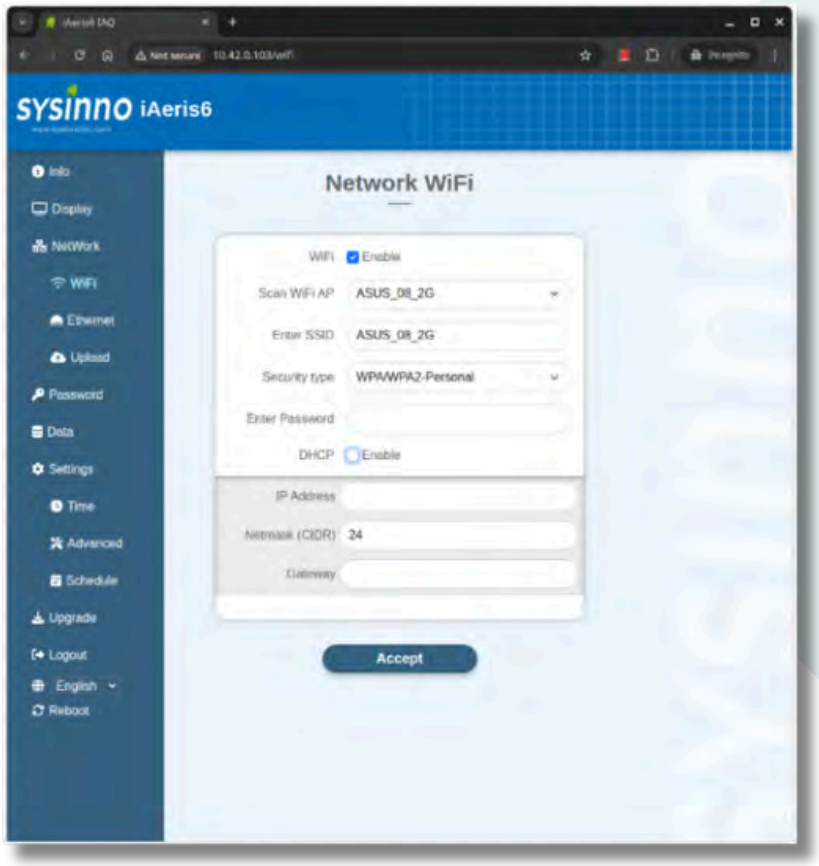


Diagram Term Explanations

- Wi-Fi Enable: Enable or disable the device's Wi-Fi module.
- Scan Wi-Fi Networks: Lists SSIDs of detectable wireless access points.
- Security Type: Wireless security mode for connecting to the access point:
  - WPA/WPA2 Personal: Uses a personal password for encryption.
  - WPA/WPA2 Enterprise (PEAP): Typically used in enterprise environments; requires username and password for authentication.
  - Open (No Authentication): No encryption or authentication; anyone can connect.
- DHCP Enable: Enable for automatic IP and network settings from the access point; disable to manually set a static IP address.

[Return to Menu]

NETWORK – ETHERNET

This page provides settings for the device's Ethernet port, as shown below.

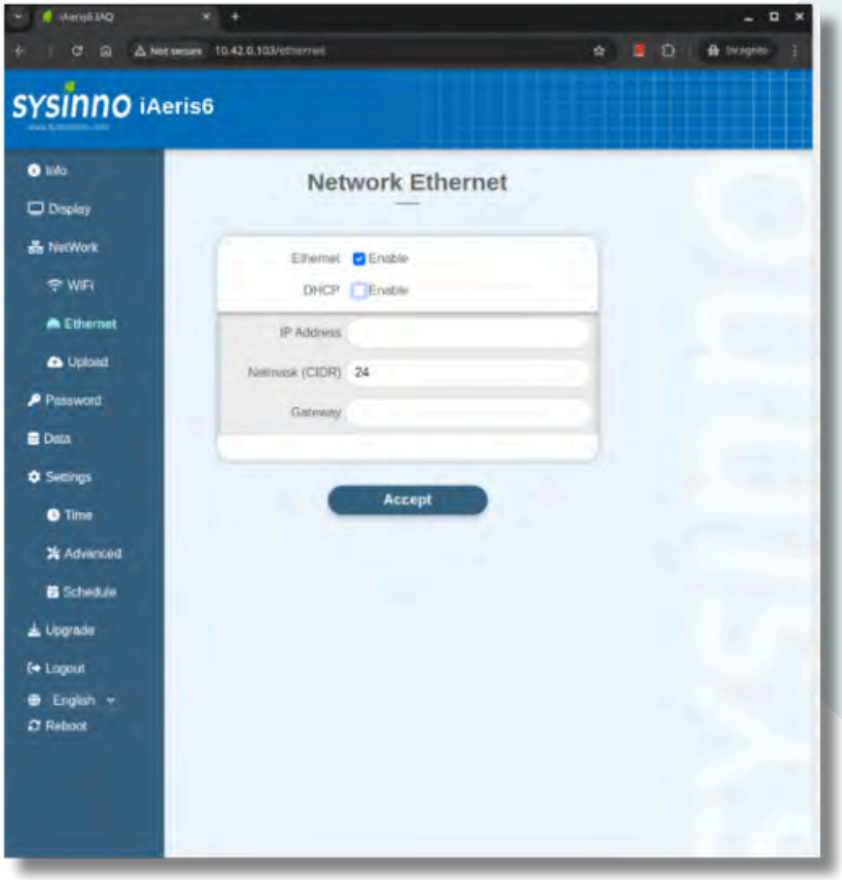


Diagram Term Explanations

- Ethernet Enable: Enable or disable the device's Ethernet port.
- DHCP Enable: When enabled, the router automatically assigns IP and network settings. When disabled, a static IP must be manually configured.

[Return to Menu]

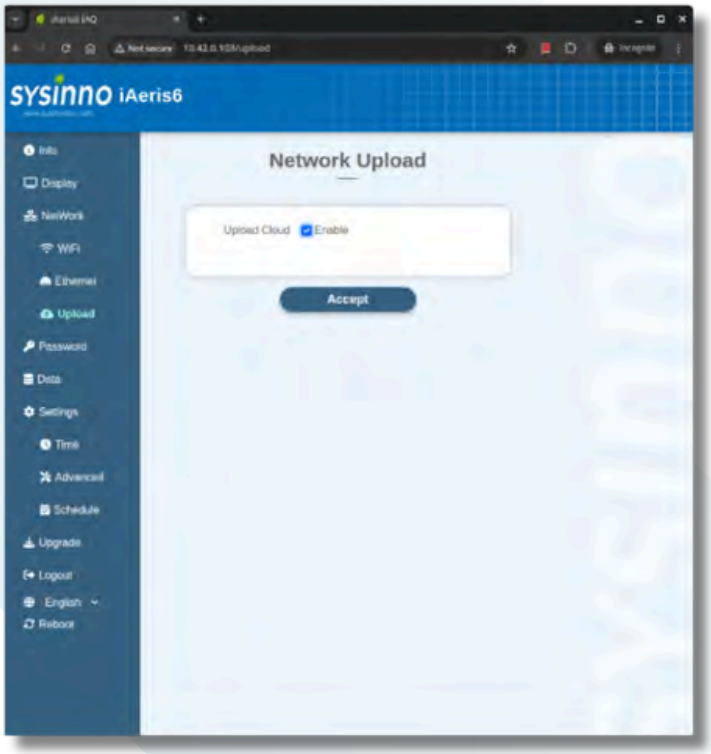
NETWORK UPLOAD

This page provides settings for uploading device data to a cloud server. You can choose different server modes and communication formats. The settings are divided into four pages. This function must be configured in Engineer Mode.

- SYSINNO cloud (HTTP)
- SYSINNO cloud (MQTT)
- Custom cloud (HTTP)
- Custom cloud (MQTT)

SYSINNO cloud (HTTP)

Using the HTTP protocol, simply enable the setting to upload data to the cloud server provided by Sysinno, as shown below.

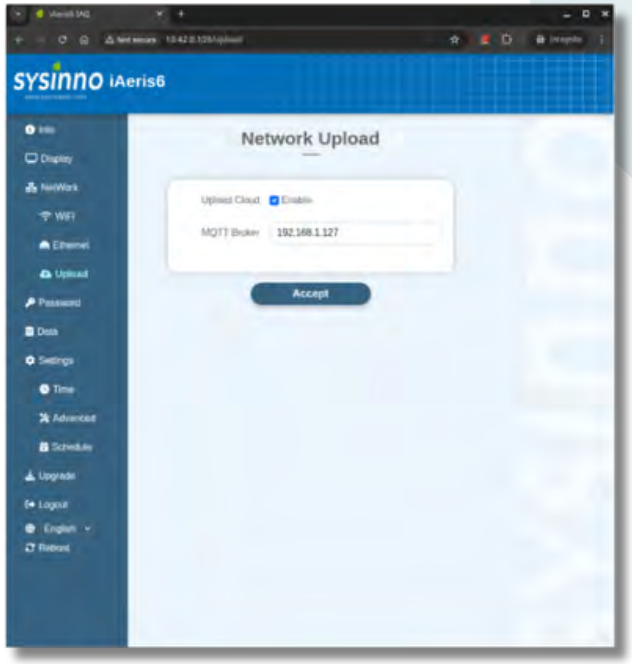


[Return to Menu]

NETWORK UPLOAD

SYSINNO cloud (MQTT)

When using Sysinno On-Premise Server (i-Cap), simply enable it and set its IP address. Data can then be easily uploaded using the MQTT protocol, as shown below.



Custom cloud (HTTP)

Supports HTTP protocol to push data to a customer-specified server IP address and path, as shown below.

Custom cloud (MQTT)

Using MQTT v3 protocol, the device can send data to a specified MQTT Broker IP address, Topic, and port. All related settings are shown in the diagram below.

[Return to Menu]

CHANGE PASSWORD

The system allows users to change their account information, including **Username, New Password,** and **Confirm Password**. The interface is shown below.

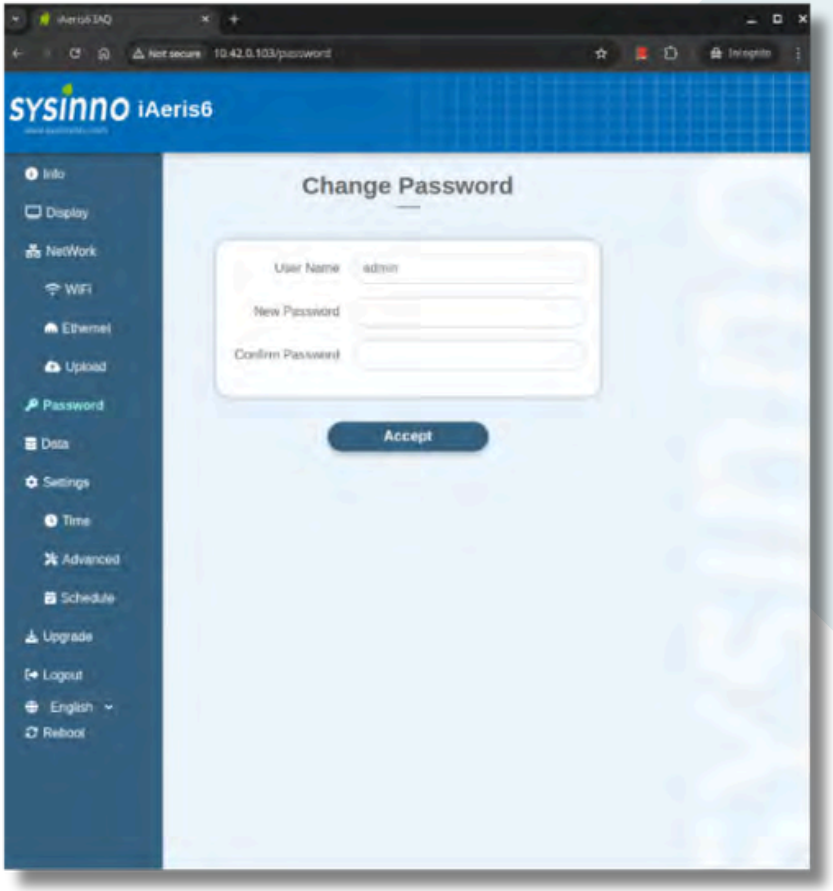


Diagram Term Explanations

- Username: Enter your new login account name.
- New Password: Set your new password.
- Confirm Password: Re-enter the new password to ensure it matches the previous field. If the two entries do not match, the password change cannot be completed.

[Return to Menu]

DATA DOWNLOAD

The system supports downloading stored data via the web interface, as shown below.

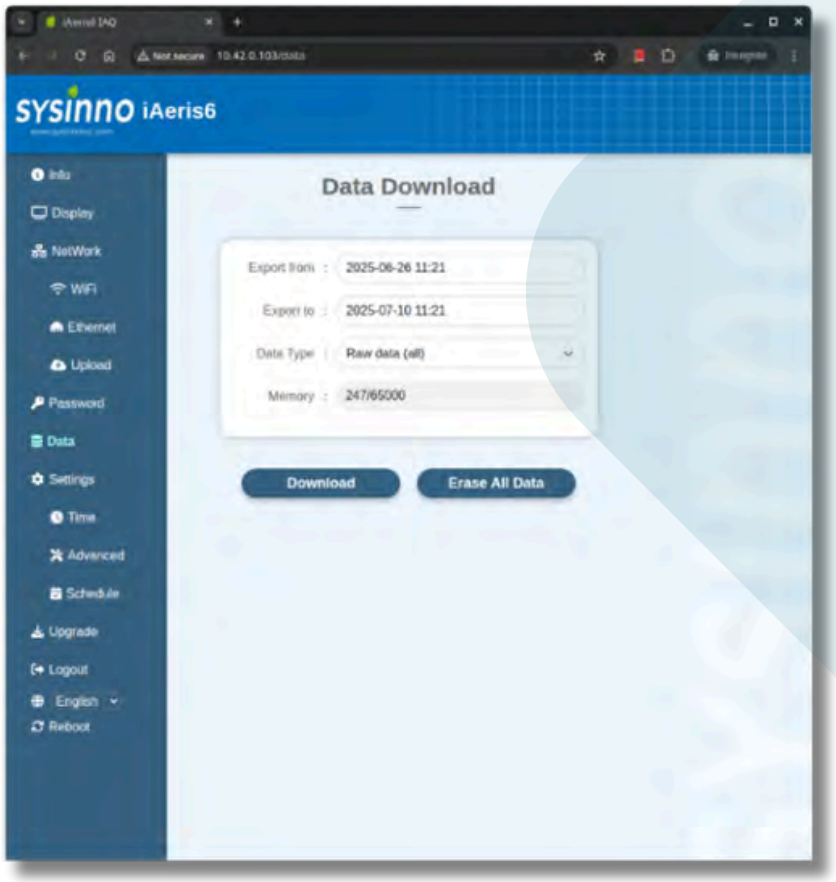


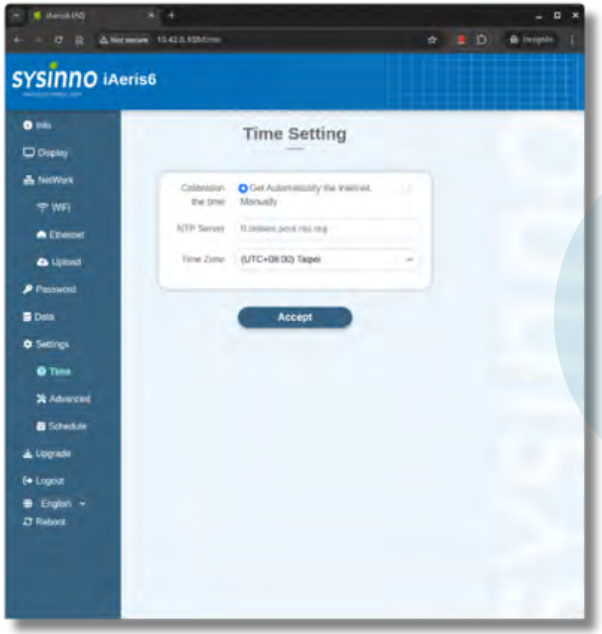
Diagram Term Explanations

- Export Start Time: Select the start date and time for the data export.
- Export End Time: Select the end date and time for the data export.
- Data Type:
  - Raw: Export all original data records.
  - Per Minute (Average): Export average data per minute.
  - Per Hour (Average): Export average data per hour.
  - Per Day (Average): Export average data per day.
- Memory: Displays two values: left = current stored entries, right = maximum storage capacity. When the storage reaches its limit, older data is overwritten in a circular manner.

[Return to Menu]

TIME SETTINGS

The device system time can be set in two ways:
Network Time or Manual, as shown below.



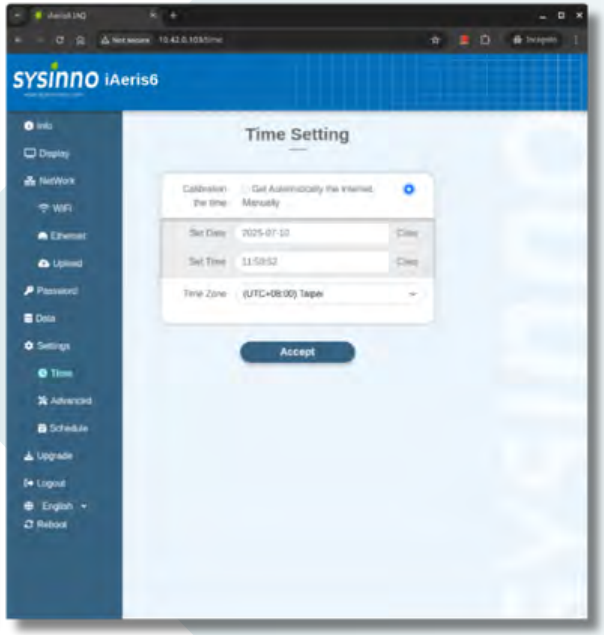


Diagram Term Explanations

- Time Sync: Choose Automatic (Network) or Manual.
- Time Server: Specify the NTP server address for automatic time synchronization.
- Time Zone: Select your local time zone to ensure correct display (e.g., UTC+08:00 Taipei).
- Set Date: If network time sync is disabled, manually set the current date here.
- Set Time: If network time sync is disabled, manually set the current time here.

[Return to Menu]

ADVANCED SETTINGS

The Advanced Settings page provides several key configurations, covering the following main sections:：

1. **Modbus RTU (RS-485) Communication Settings:**
   - Configure communication parameters between this device and Modbus RTU (RS-485) devices.
2. **Cloud Data Upload Settings:**
   - Set parameters for uploading the device's detected data to a cloud server.
3. **Device Mode (Main/Sub-device):**
   - In Main Mode, the system can actively receive detection data from other iAeris series devices and present the integrated data uniformly.
   - In Main Mode, it can also connect to other KR series devices to trigger the configured low-voltage switches.

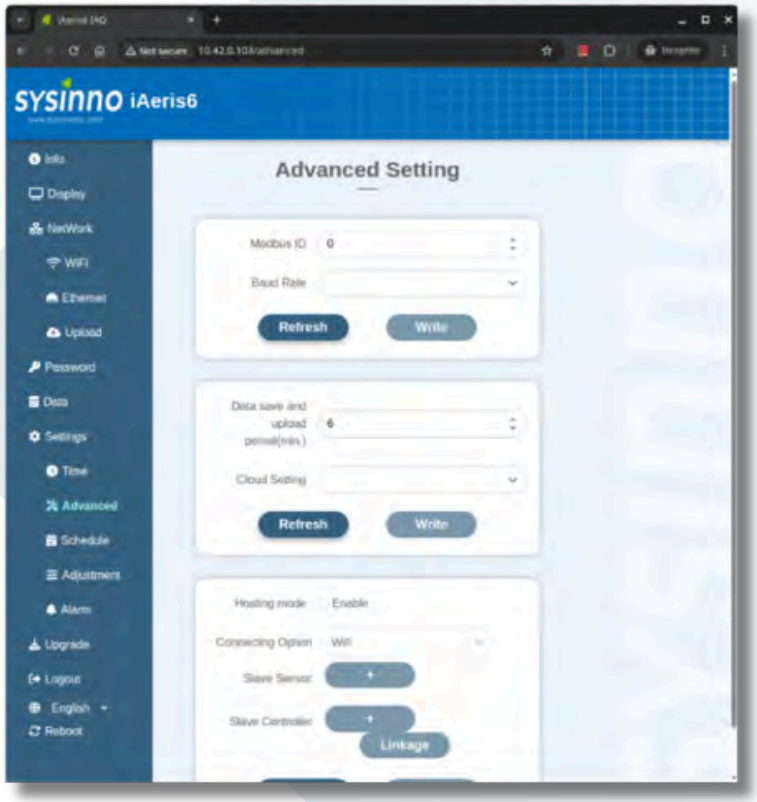


Diagram Term Explanations

- **Modbus RTU (RS-485)**
  - Modbus ID: Set the device's unique identifier on the RS-485 network (1–247).
  - Baud Rate: Set the transmission speed for Modbus RTU (RS-485) communication in bps (bits per second). Available options: 600, 1200, 2400, 4800, 9600, 19200, 115200, 230400.

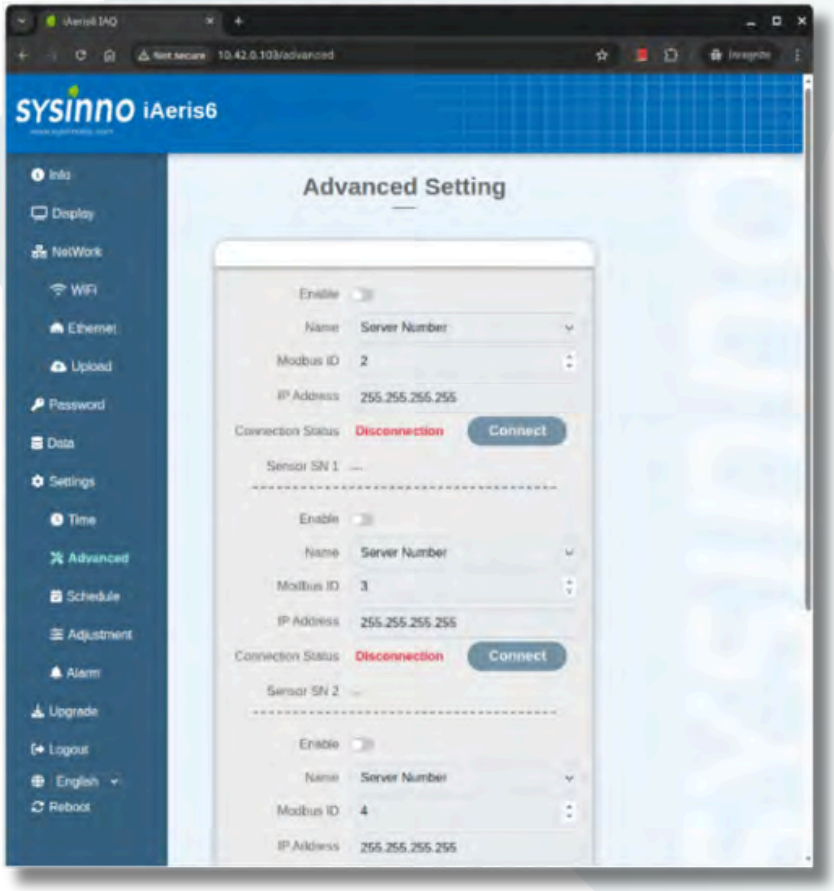
- **Cloud Data Upload Settings (Engineer Mode)**
  - Data Storage & Upload Interval (minutes):
  - Cloud Server Selection:
    - SYSINNO cloud (HTTP)
    - SYSINNO cloud (MQTT)
    - Custom cloud (HTTP)
    - Custom cloud (MQTT)

[Return to Menu]

ADVANCED SETTINGS

- **Master Mode**
  - Connection Mode: Sysinno products support both Wi-Fi and Modbus (RS-485) communication. You must choose one as the primary communication protocol between this device (Master) and other Main/Sub devices:
    - Wifi
    - RS485

- **Sub Sensors:** In this section, you can add other iAeris series devices to send their detected data to this unit for integration. This unit can connect to up to 4 sub sensors, as shown in the figure below.



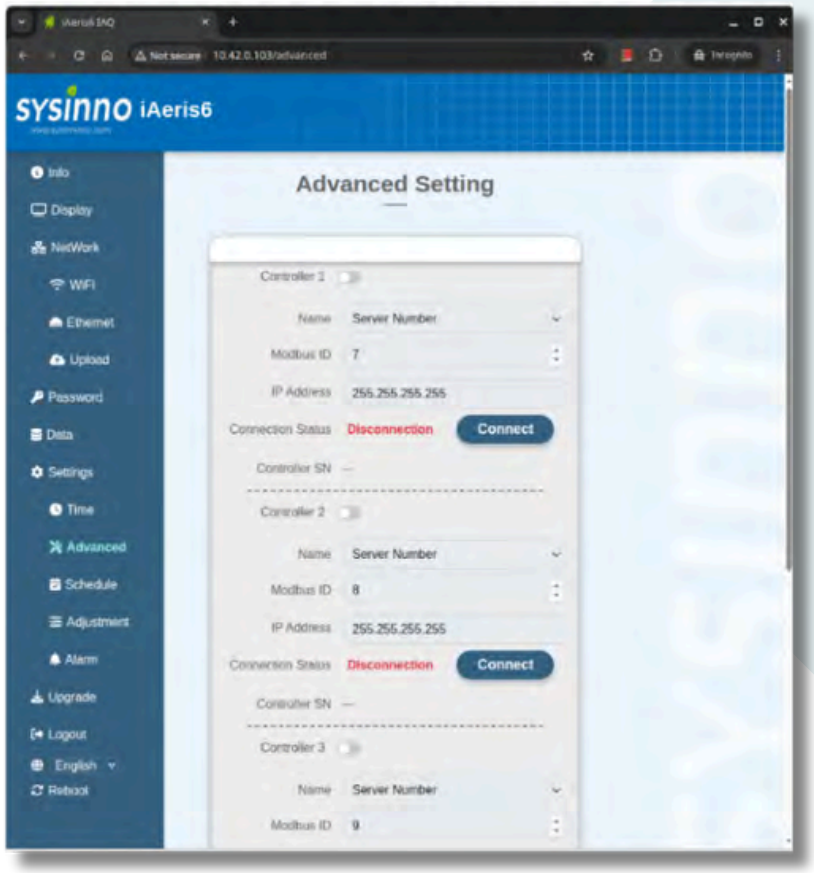
  - Enable: Check this option to enable or disable the connection with the selected iAeris series device.
  - Name: Assign an easily recognizable alias to this connected iAeris device.
  - Modbus ID: Set the Modbus ID used for communication with the iAeris device.
  - IP Address: Enter the IP address of the iAeris device to establish a network connection.
  - Connect: Click this button to test whether the connection to the iAeris device can be successfully established.
  - Sensor Serial Number 1: When the connection is successful, this field will display the unique serial number provided by the connected iAeris sensor.

[Return to Menu]

ADVANCED SETTINGS

- **Sub Controllers**

  Add additional KR series devices and connect them to this host. Up to four slave controllers can be connected.



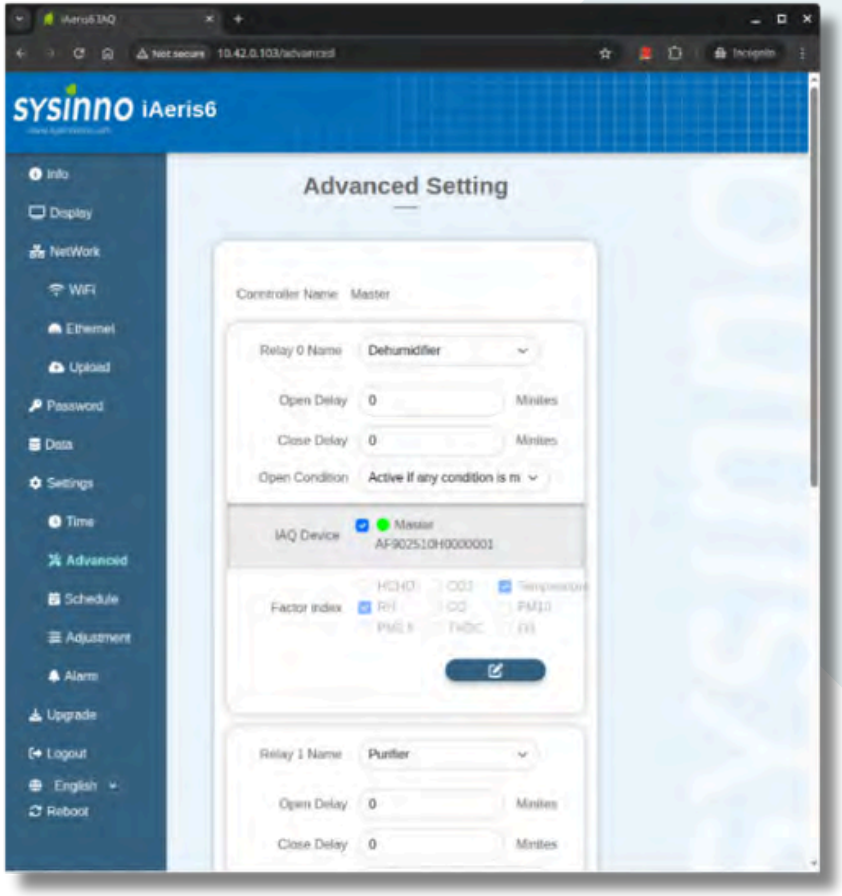
- Enable: Check this option to enable or disable the connection with the KR series device.
- Name: Assign an easily recognizable alias for the connected KR device.
- Modbus ID: Set the Modbus ID used for communication with the KR device.
- IP Address: Enter the IP address of the KR device to establish a network connection.
- Connect: Click this button to test whether a successful connection to the KR device can be established.
- When the connection is successful, this field will display the unique serial number provided by the KR controller.

[Return to Menu]

ADVANCED SETTINGS

- **Relay Linking Settings**

  You can pair **Sub-device sensors** and **Sub-device controllers** to link their actions. The Main device has three built-in relays.

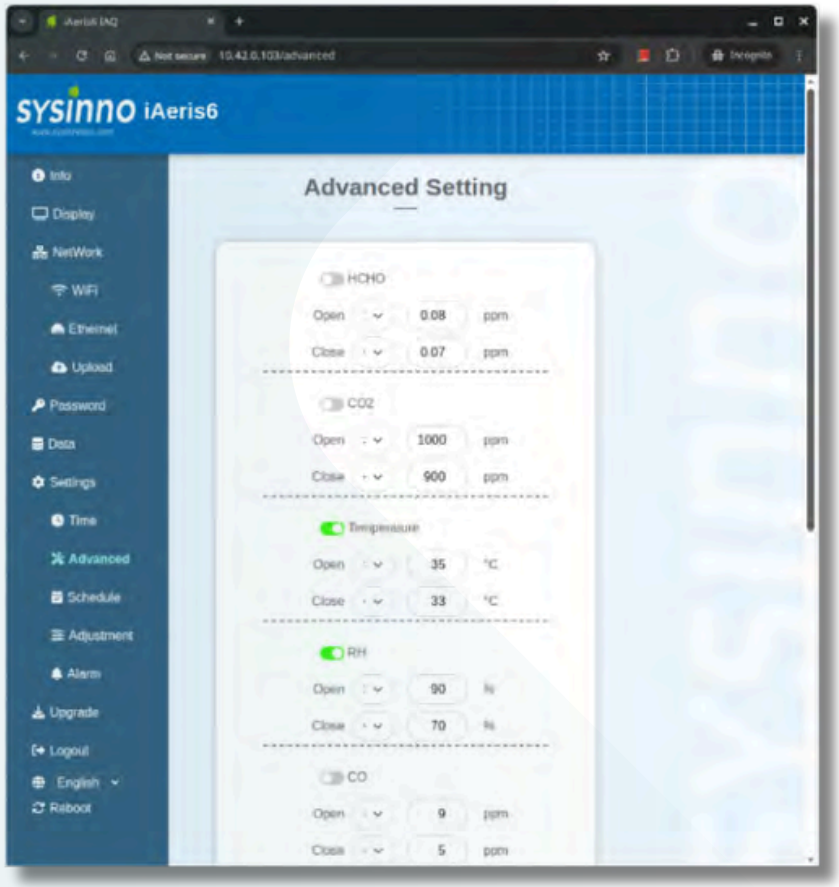


- Relay Name: Besides controlling external KR system devices, the Main device has three built-in relays. You can rename each relay.
- Turn-On Delay: When a sensor factor changes from **“Not Triggered”** to **“Triggered,”** the system waits for the set number of minutes. The relay only turns on if the sensor factor remains triggered during this delay.
- Turn-Off Delay: When a sensor factor changes from **“Triggered”** to **“Not Triggered,”** the system waits for the set number of minutes. The relay only turns off if the sensor factor remains not triggered during this delay.
- Activation Condition: Choose between “Any condition met” or “All conditions met.”
  - Any condition met: The relay turns on if any selected iAQ component has any sensor factor reaching its trigger value.
  - All conditions met: The relay only turns on if all selected iAQ components have all their sensor factors reaching trigger values.

[Return to Menu]

ADVANCED SETTINGS

- iAQ Component: Refers to all sensor devices connected to this device (Main), including the Main device itself and all Sub-devices. You can select from these as reference devices for relay activation conditions.
- Sensor Factor: The specific sensor parameter within the selected iAQ component, used as a reference for triggering values.



[Return to Menu]

SCHEDULE SETTINGS

This page allows you to configure time schedules for both the **main** and **sub** controllers, as shown below.

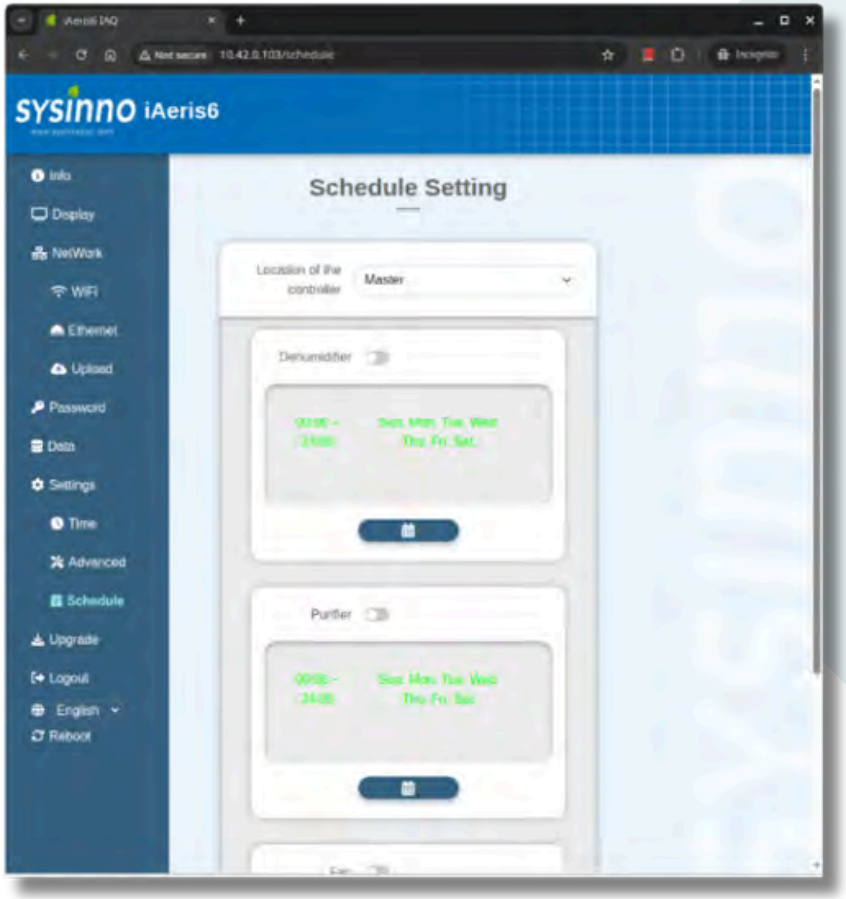


Diagram Term Explanations

- **Controller Selection:**Use the dropdown menu to select the host or slave controller that has been enabled in [06-02 Setting – Advanced]. The system will display the corresponding relay schedule based on the selected controller.
- 

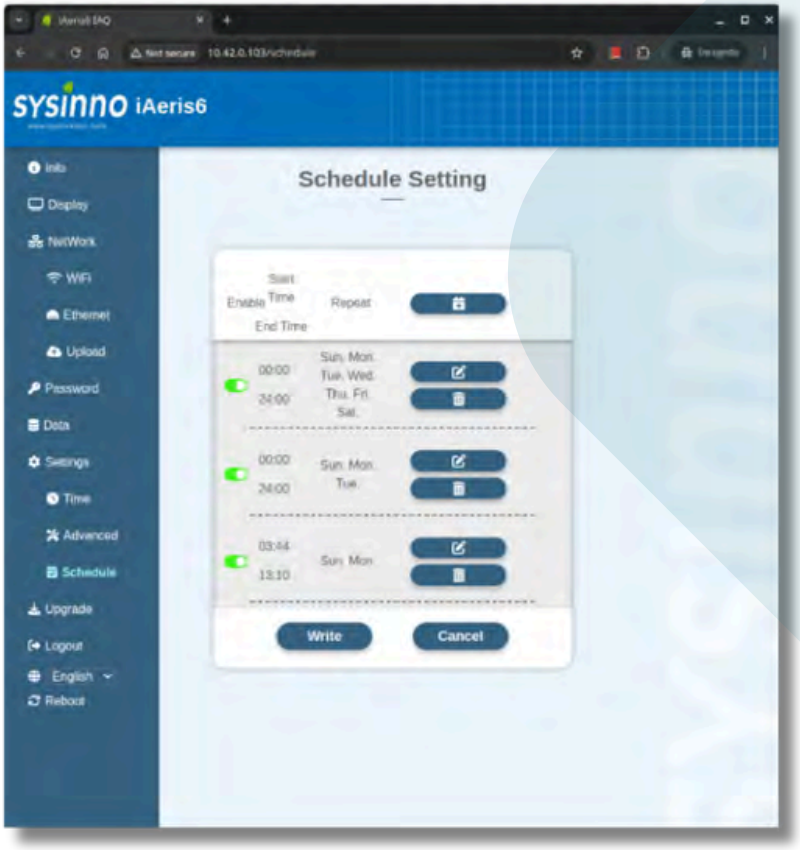
Relay Manual Switch: Used to manually turn the relay ON or OFF.
- Schedule Display: The table lists all configured schedule periods. Each schedule item is displayed in one of three colors:
  - Green: Indicates the schedule is currently active and executing.
  - Gray: Indicates the schedule is inactive.
  - Yellow: Indicates the schedule has been manually turned off.

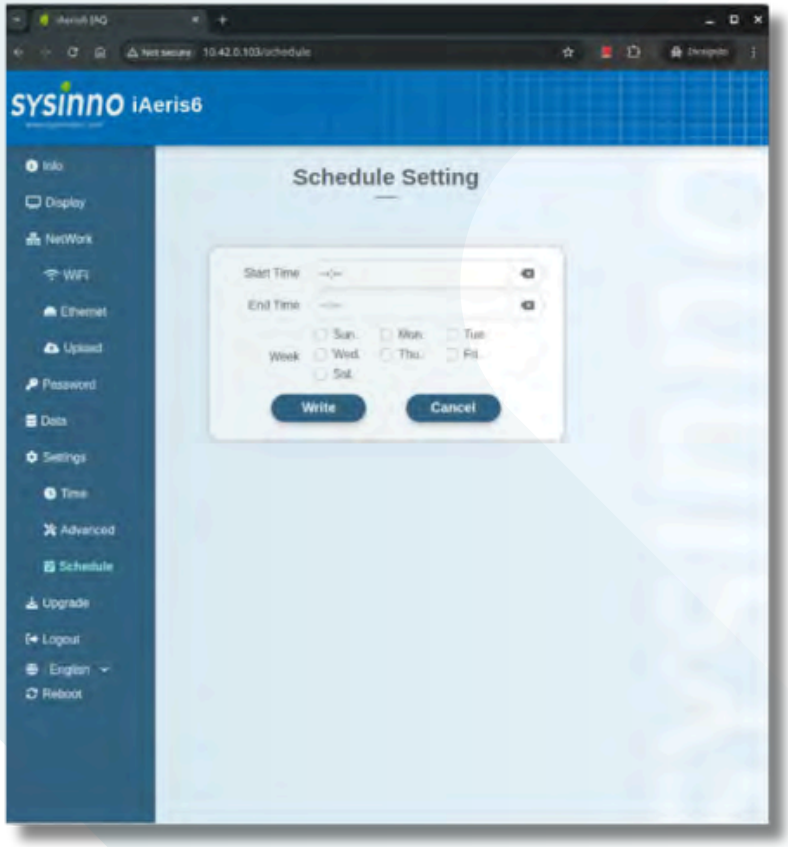
[Return to Menu]

SCHEDULE SETTINGS

Relay Schedule Setting
This section allows you to configure the time schedule for a specific relay, as shown below :

After clicking the relay item, the system will open a new page for adding a new schedule, as illustrated below:





 : Used to modify the selected schedule setting

 : Used to remove the selected schedule setting.

[Return to Menu]

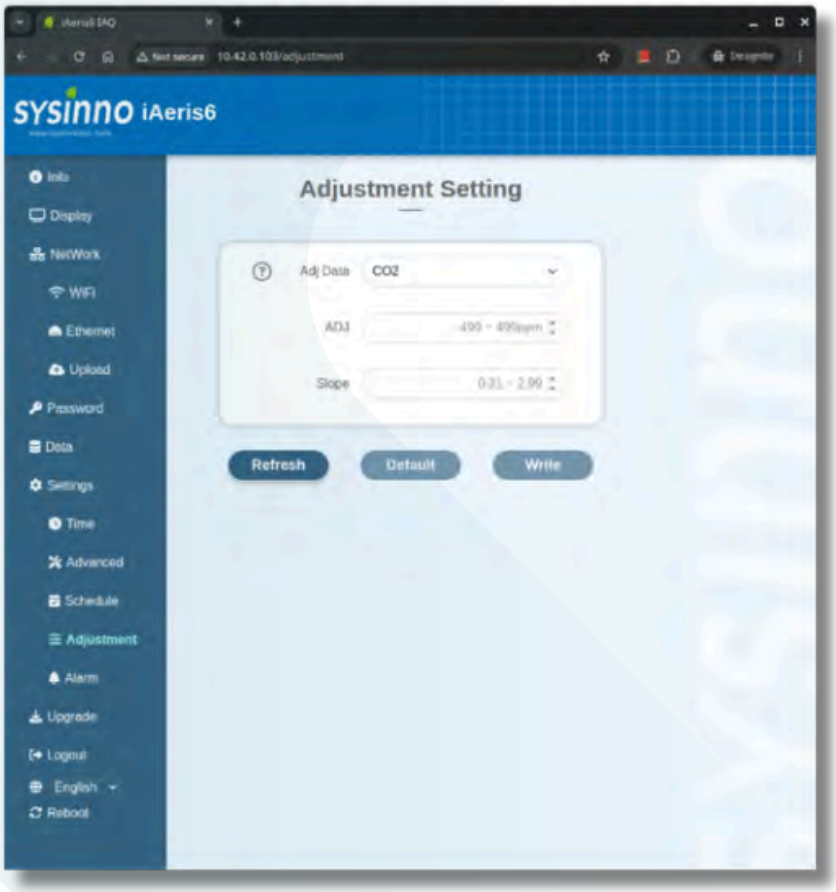
ADJUST SETTINGS

Used to adjust the parameters of each sensing factor. The calculation formula is as follows:

$$Data = (Raw + ADJ) \times Slope$$

- Data: The displayed value of each factor, calculated using the above formula.
- Raw: The original measured data of each factor.
- ADJ (Adjustment Value): The correction value used to offset systematic errors, allowing the data to be closer to the reference point.
- Slope: The scaling coefficient. If no additional conversion is applied, the slope is typically set to 1.

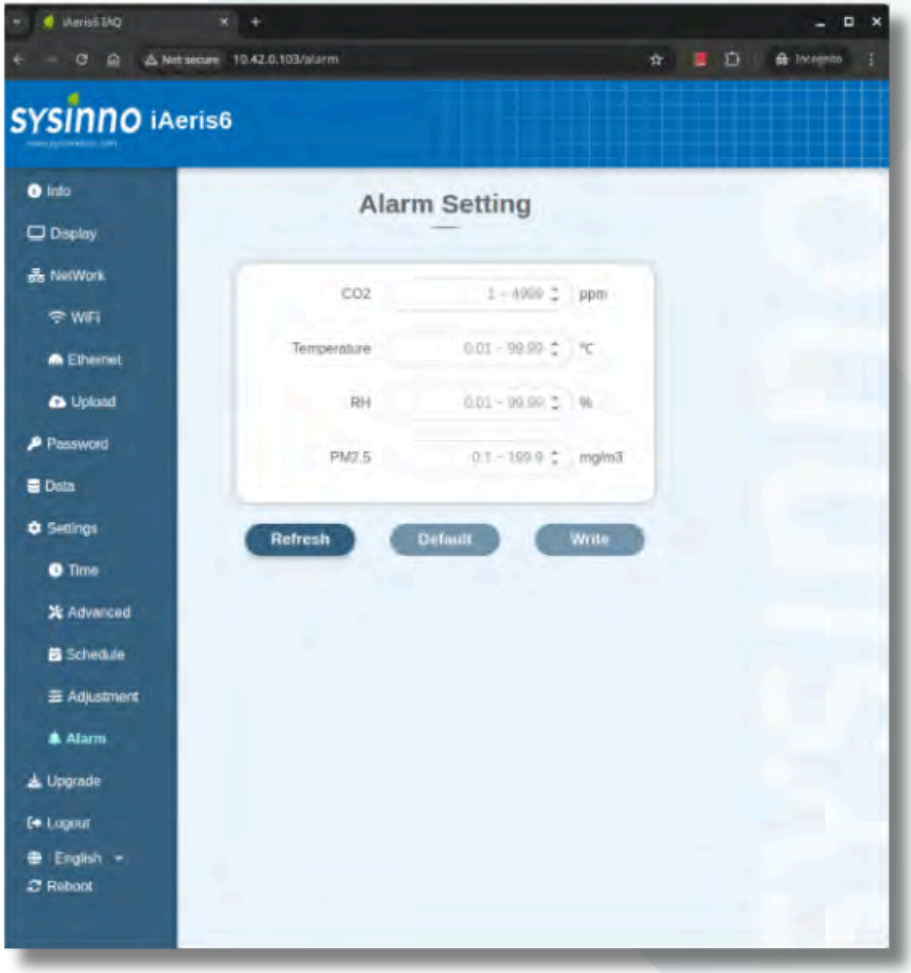
The interface of this page is shown below:



[Return to Menu]

ALARM SETTINGS

- This page allows you to set alarm thresholds for each sensing factor. When any sensor reading exceeds the defined threshold, the text color of that factor on the device interface will change, providing an immediate visual alert to indicate that it has entered an alarm state.The interface is shown below:



[Return to Menu]

UPDATED SETTINGS

This page is used for performing remote firmware updates on the device, as shown below:

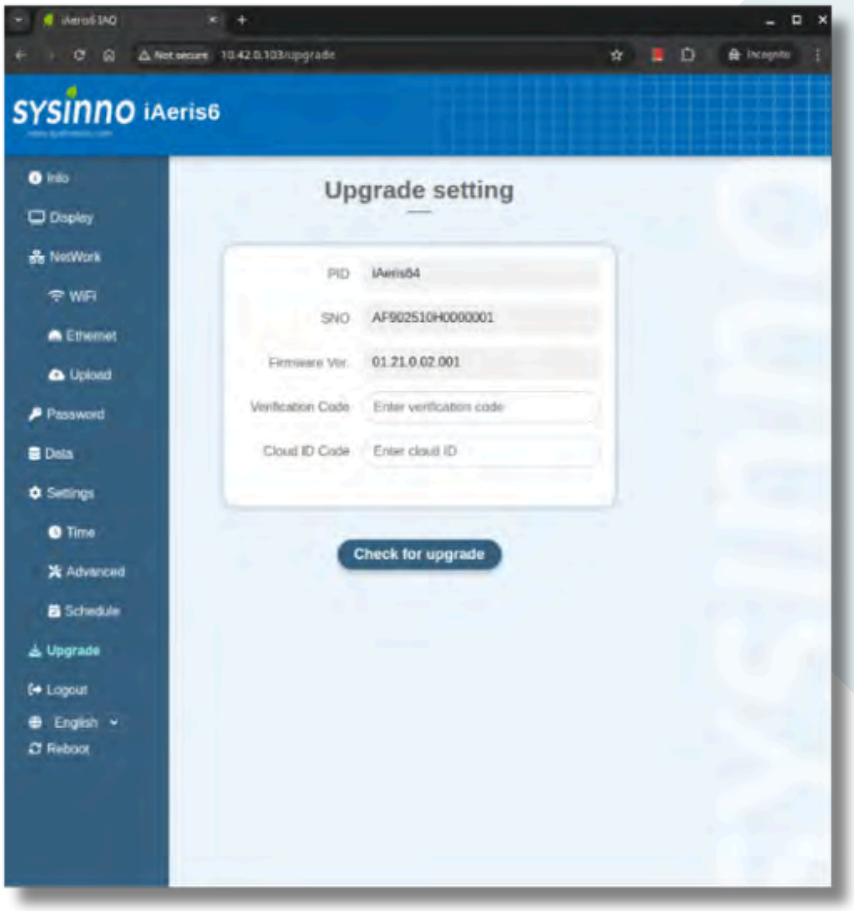


Diagram Term Explanations

The following two values are provided by Sysinno:

- Verification Code: Used for sha256sum verification to ensure the update file was downloaded without errors.
- Cloud ID Code: A unique identifier provided by Sysinno, required to access the cloud update server.

[Return to Menu]

OTHER OPTIONS INTRODUCTION

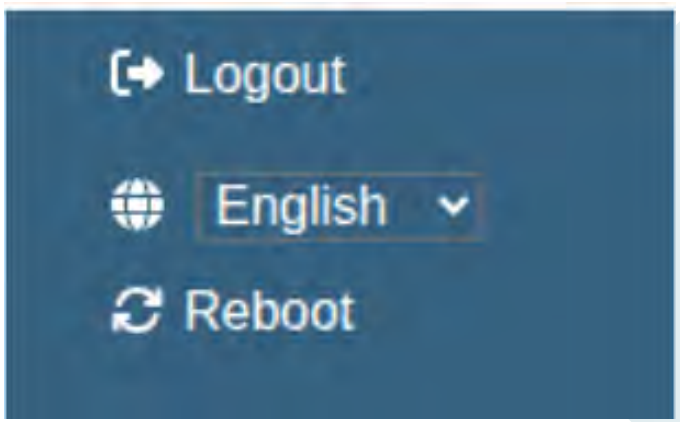


Diagram Term Explanations

：Logout Settings: Used to configure options related to system logout.

Language Settings: Allows selection of the device display language. Currently supported languages:

- Traditional Chinese
- English

: Restart: Used to reboot the device.

[Return to Menu]