iAeris

iAeris2 IAQ Detector

* Please read this manual carefully before using this product.

USER MANUAL

www.sysinnotec.com

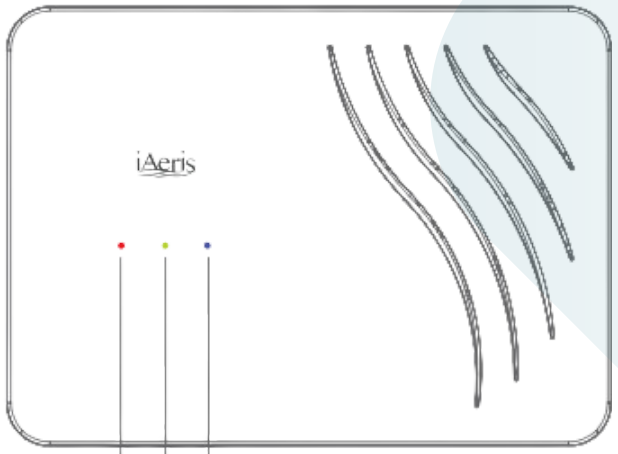
sysinno

PACKAGE CONTENTS

- iAeris main unit
- Wall mount
- Adapter

PRODUCT DESIGN / FEATURES

Front View



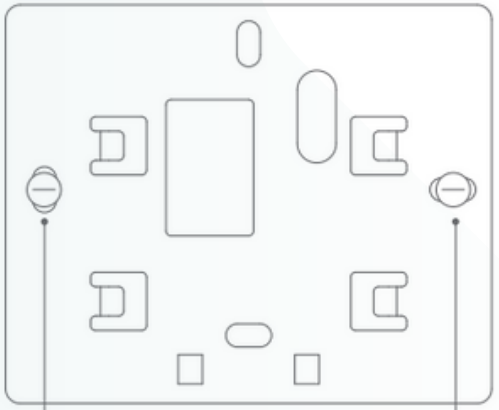
Red Light - Alert

Blue Light - Communication Transmission

Green Light - Power

Adapter

Wall Mount



PRODUCT DESIGN / FEATURES

Recommended installation height within human breathing range (suggested height 1.5~2.5m)

COMMUNICATION INTERFACE:

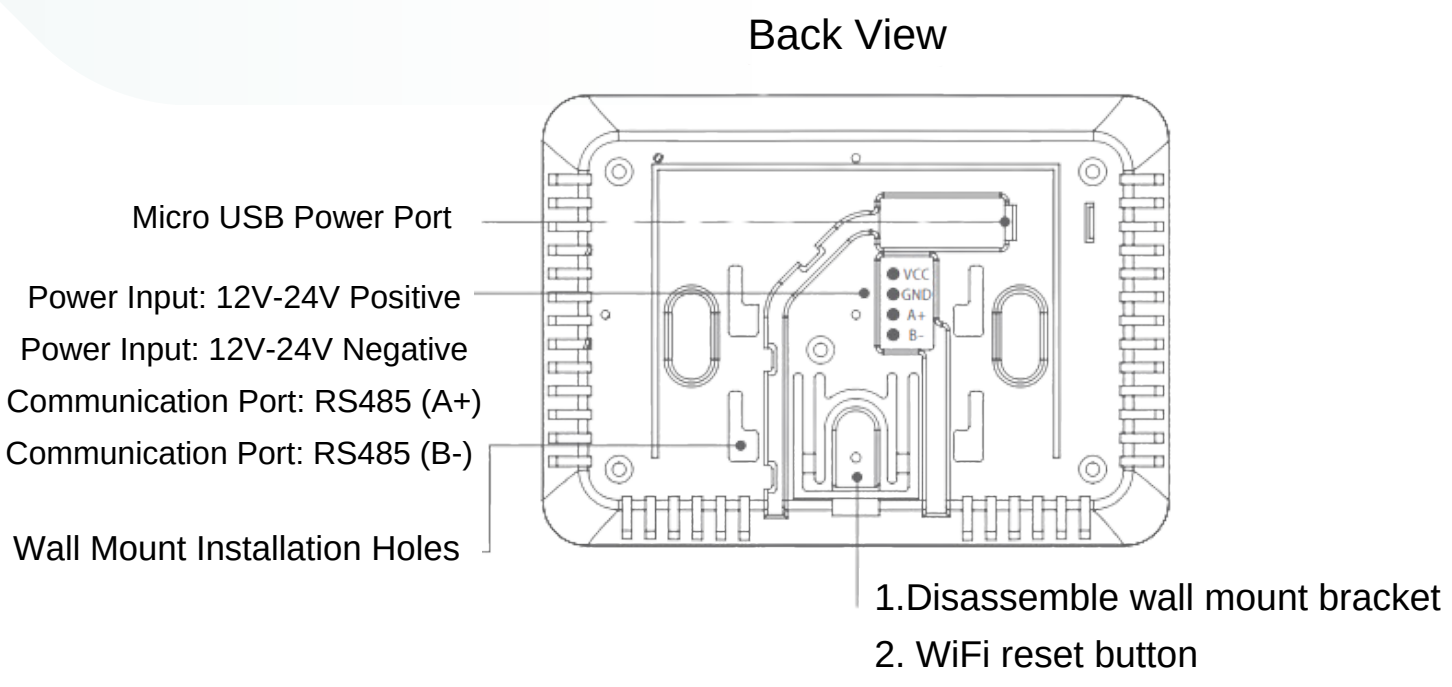
RS485 communication function

- RS485 with Modbus-RTU format. Mind A(+) and B(-) when connecting
- Communication format follows Modbus-RTU. Use devices and equipment with Modbus-RTU Master functionality.

Wireless network function:

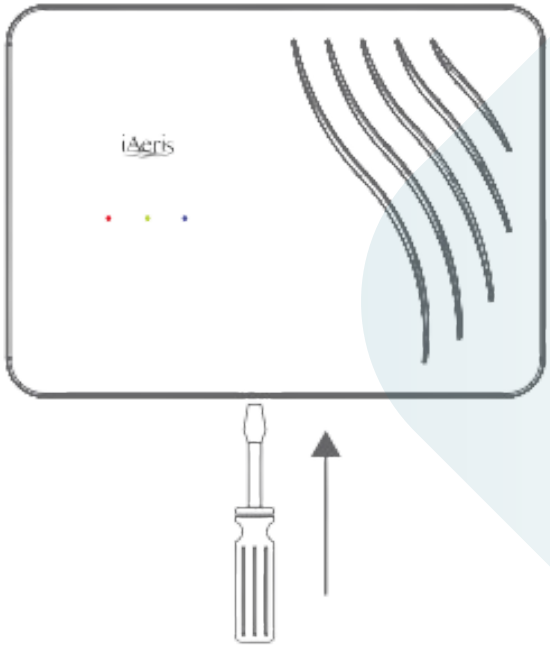
- When using wireless network, refer to WiFi setup instructions.
- Supports HTTP, MQTT, and Modbus TCP network communication formats.

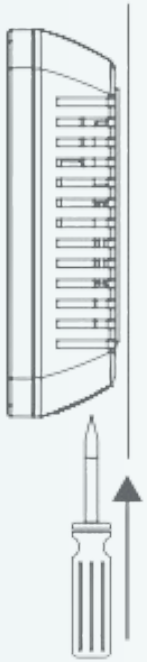
Back View



WALL MOUNT INSTALLATION

Recommended installation height within human breathing range (suggested height 1.5~2.5m)





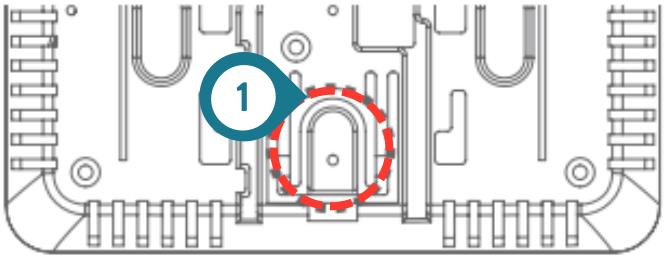
Use a small flat-head screwdriver to insert into the gap between the body and the wall mount bracket at the center. Insert upward to loosen the latches.

WiFi Setup Process (For WiFi Model)

1. Connect your iAeris device

1

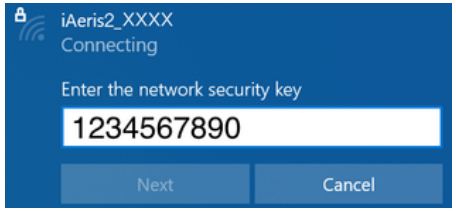
Press and hold the reset button on the back of the main unit for 10 seconds. The system will reboot and enter AP-Mode setup.

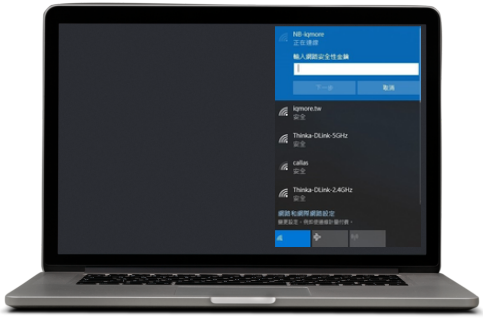


2

Open the WiFi search function on your computer or mobile device for the iAeris2 device. The device name is listed on the product's back sticker (SSID: iAeris2 xxx)

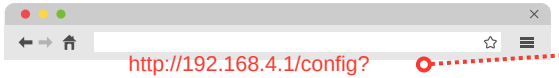
Enter password 1234567890





WiFi Setup Process (For WiFi Model)

2. Use computer or phone browser.



http://192.168.4.1/config?

1. Enter http://192.168.4.1/config? in address bar for settings.

2. Choose the WiFi AP you want to connect to.

   Note: The displayed AP is the user's WiFi AP. "sysinno-test" is just an example

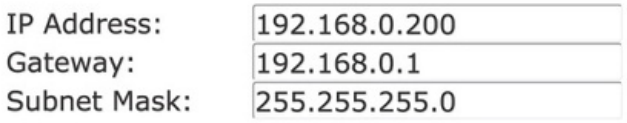
3. Enter the password.

   Note: Enter your WiFi AP password, not the iAeris1 hotspot password “1234567890”.

4. Check options: Upload Cloud / ModBust-TCP / DHCP. See right for details.

5. Once settings are complete, click "Accept."

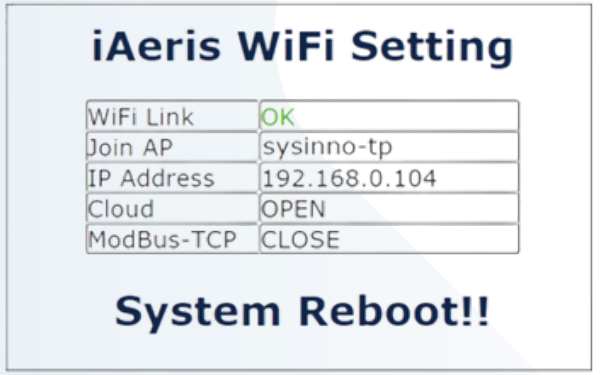
Upload Cloud	Check the box to allow external network connection and data upload to the cloud platform
ModBus-TCP	Check the box to enable Modbus-TCP communication (Port 520).
DHCP	Check DHCP to receive IP from AP/Route
DHCP	Uncheck DHCP, assign fix IP settings screen



WiFi Setup Process (For WiFi Model)

6. Countdown, waiting for setup completion.

7. When setup is complete, 'OK' will be displayed. If 'NG' appears, please return to step 1 and enter http://192.168.4.1/config? to retry configuration.

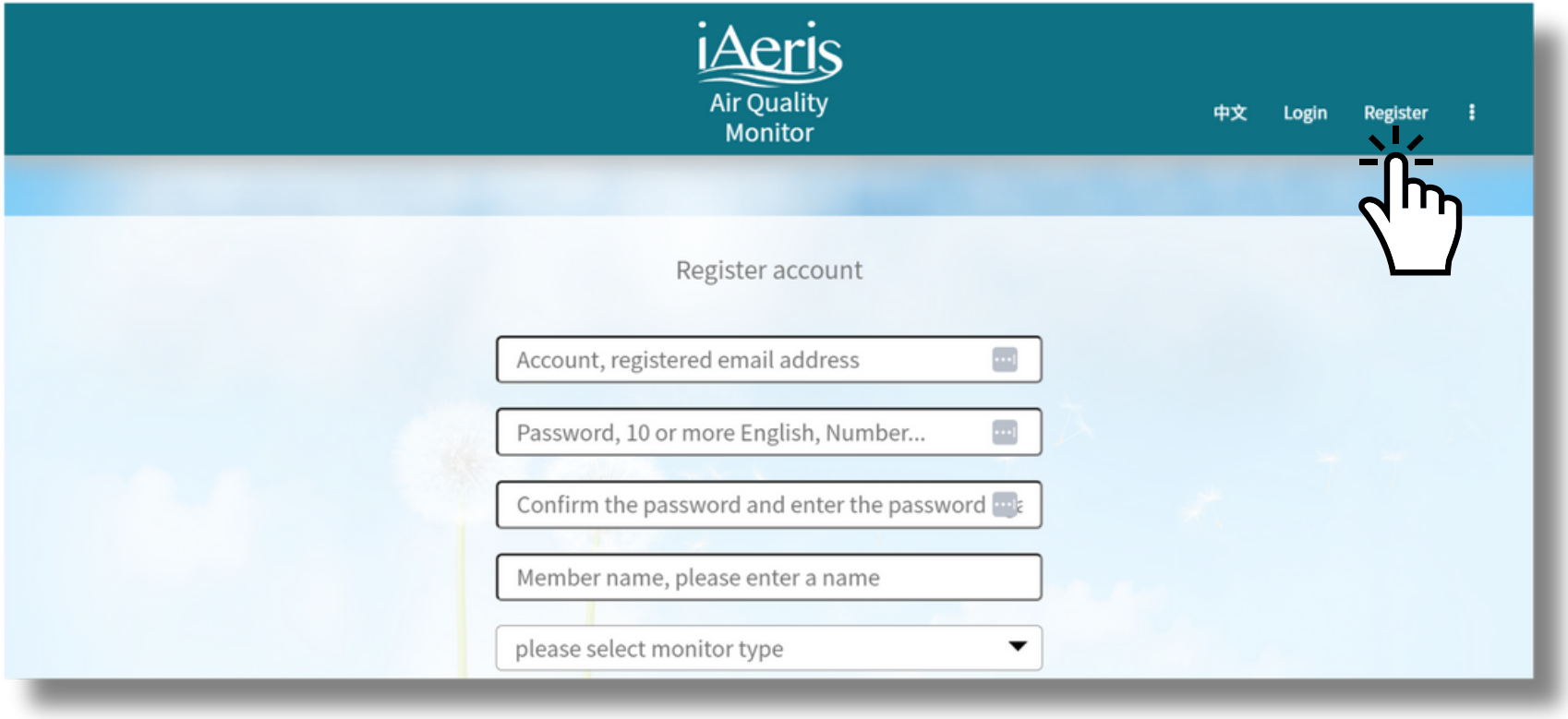


Cloud Platform Interface (Optional)

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

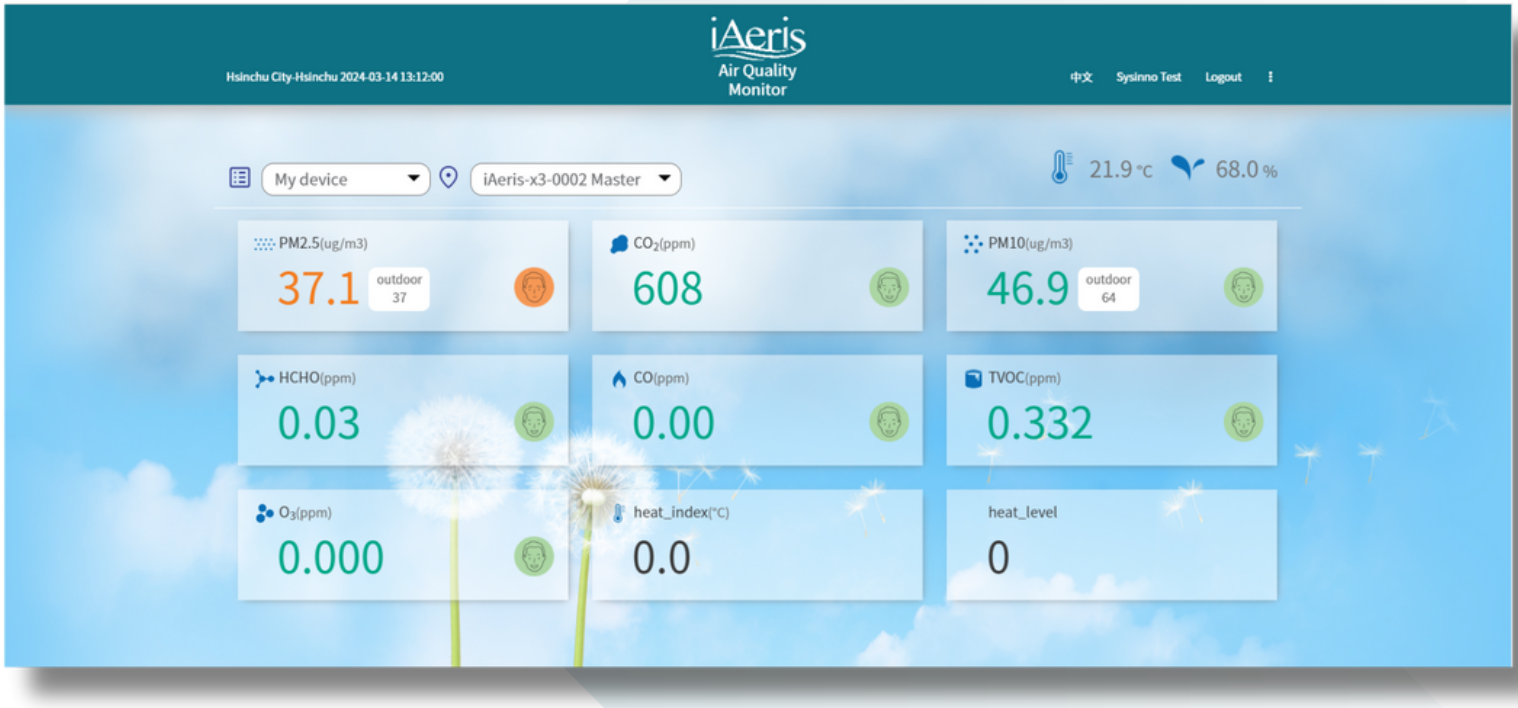
Cloud Platform Interface (Optional)

Register Account



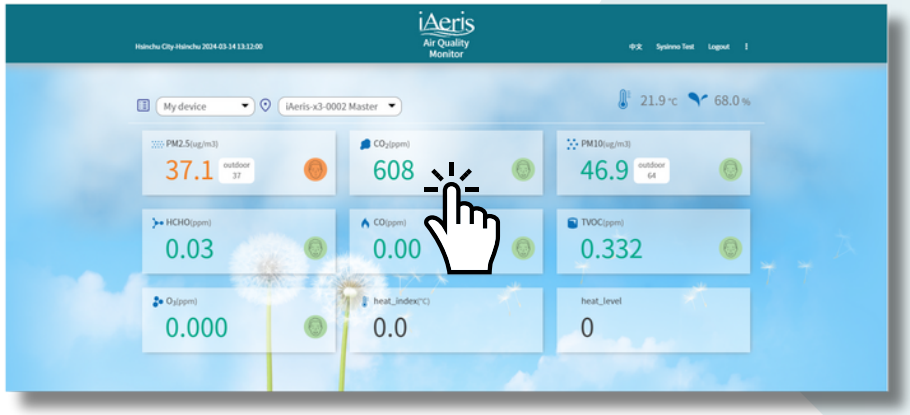
Cloud Platform Login Homepage

- 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

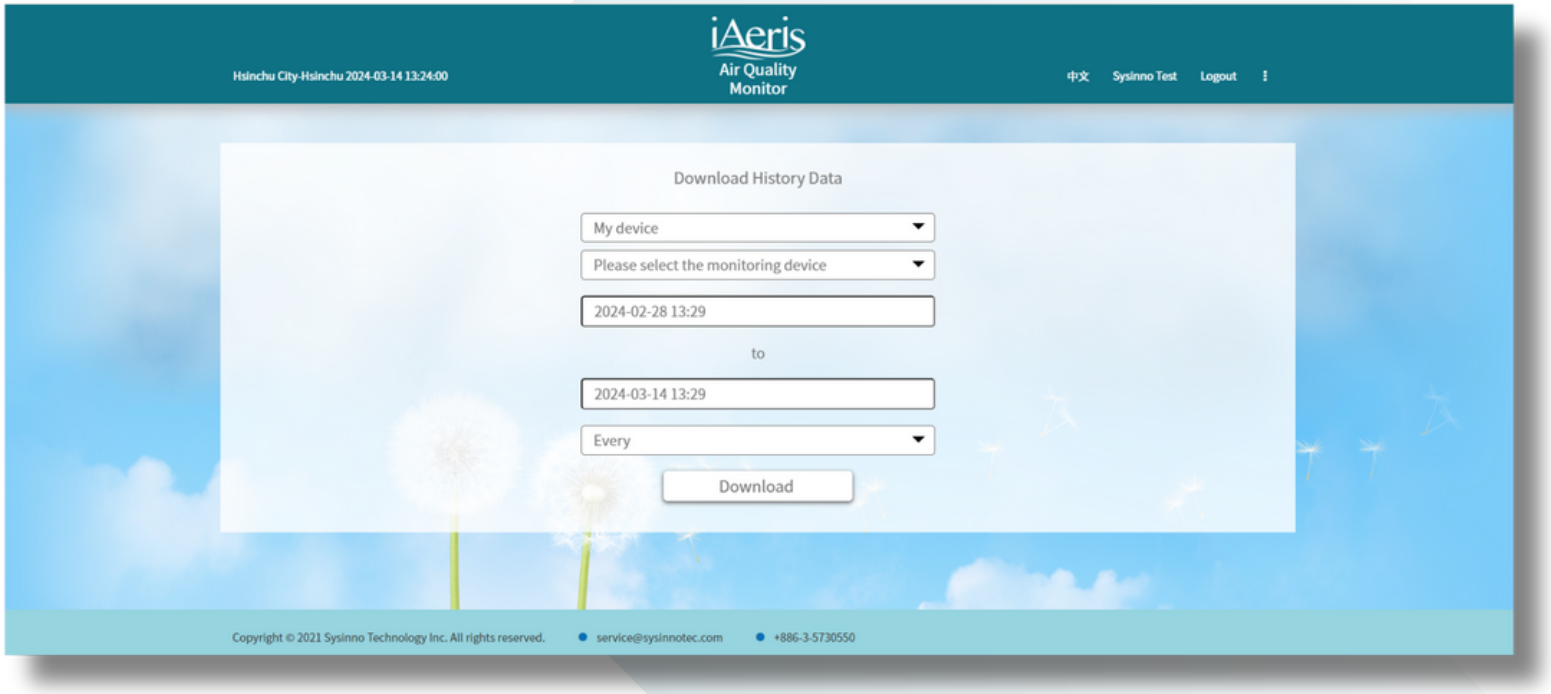
- Click "Environmental Factors" on the homepage to access the historical curve interface.



- 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.
- Detector placement should be away from operable doors, windows, and air conditioning vents, at least 2 meters away.

- 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 can be powered by a 12-24V DC power source. AC power must be converted to the required voltage for device operation via the input port. Alternatively, use the included power adapter to supply power through the Micro USB power port.

Power Supply Specifications:
This product can be powered by the included adapter or a 24V DC/AC power source. The included adapter outputs 5V for the Micro USB connector. If using a 24V DC/AC power source, you need to convert mains electricity to the required power (voltage 12~24V) and then wire it to the rear port of the device.

Prohibition of Hot Wiring:
When changing power and port terminals, ensure power is disconnected before wiring. Reconnect after setup.

【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.