



Air Box

User Manual



Powered by



(NO.: V.1.11.05)

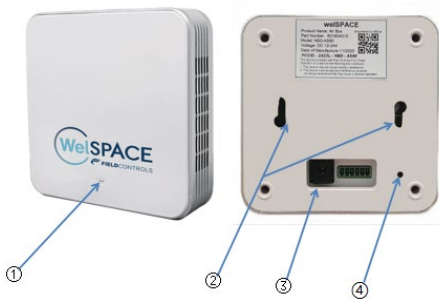
Safety

- This appliance includes a Class III Device and 100-240 Vac, 50/60Hz Power supply.
- The Class III Device is only to be used with the power supply unit provided with the appliance.
- The Class III Device must only be powered with short-circuit proof, safety extra low voltage (SELV) corresponding to the marking on the device.
- Appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the device by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the device.
- This Class III installation manual is intended to provide all required instructions on how to install the Air Box indoors.
- Verify that the installation is performed in accordance with the installation diagrams.
- Please follow the installation procedure stated below.

Product Introduction

The Field Controls weSpace indoor air quality sensor is an ingenious smart indoor air quality system designed to revolutionize the way you experience your environment.

This cutting-edge solution empowers you to save electricity costs and effortlessly monitor, operate, and manage crucial indoor air quality (IAQ) conditions, including carbon dioxide (CO₂) levels, temperature, relative humidity (RH), VOCs, formaldehyde (HCHO), and particle (PM_{2.5}) count.



NOTE:

- ① Status indicator
- ② Mounting slots
- ③ Power socket
- ④ Reset button

Equipment Parameters

Power supply: DC 12V - 24V, 1A

Electric current: 150mA / Average, 300mA / Peak

Signal output: RS485, Wi-Fi

Air inlet mode: Natural ventilation

Shell material: ABS

Degree of protection: IP30

Installation options: Desk or surface, wall-mounted, or ceiling-mounted

Size: 130mm×130mm×35mm

Operating environment: -14 to 122°F; 0-90%RH (No condensation)

Storage environment: -4 to 140°F; 0-90%RH (No condensation)

Air Box Parameter Specification

| Parameter | Operating Principle | Range | Resolution | Accuracy |
|-------------|---------------------|---------------------------|-----------------------|------------------|
| Temperature | Thermal sensitivity | -40 ~ 176 °F | 0.2°F | ±0.9°F |
| humidity | Capacitive | 0 ~ 100%RH | 0.1%RH | ±5%RH |
| PM2.5 | Laser optics | 0 ~ 1000ug/m ³ | 1ug/m ³ | ±5% |
| CO2 | NDIR | 0 ~ 5000ppm | 1ppm | ±40ppm±3%reading |
| TVOC | Semiconductor | 0 ~ 5.00mg/m ³ | 0.01mg/m ³ | < ±15%F.S |
| HCHO | Electrochemistry | 0 ~ 2.00ppm | 0.01ppm | < ±0.05ppm |

Air Box SET-UP

1. Power On Device

For **Plug-and-Play** operation, use the wall socket power cord.

Insert the round plug of the power adapter into the circular power cord socket of the Air Box.



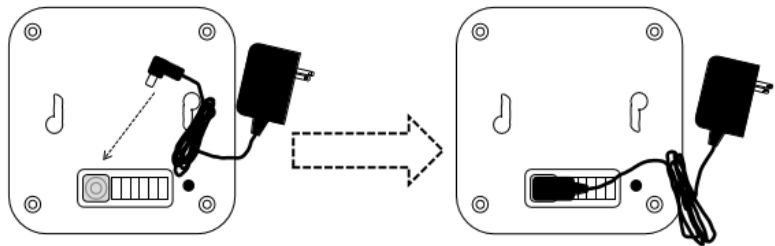
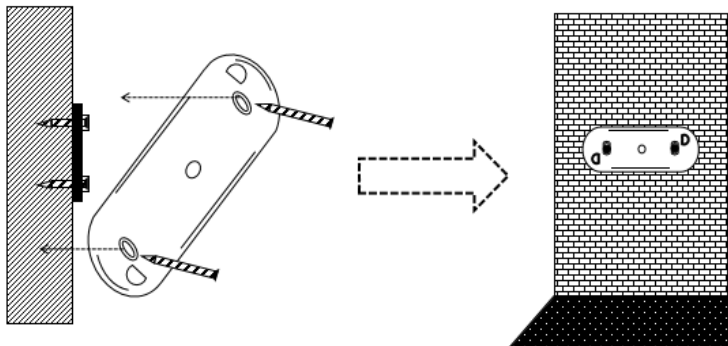
For **Hardwired operation**, use the hardwire power supply. Connect the **blue** power cord to the "+" pole of the green wiring terminal, and the **brown** power cord to the "-" pole, then insert the green wiring terminal into the green wiring module of the air box.

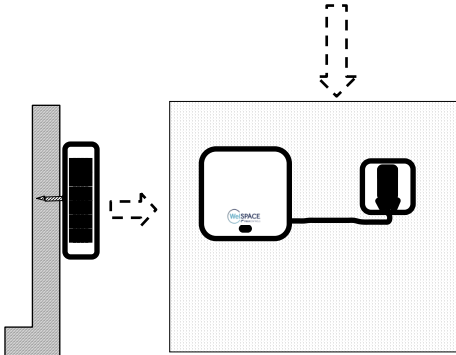
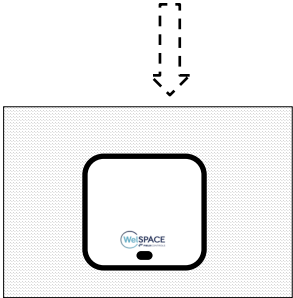
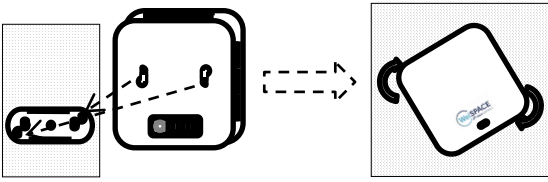


Mounting

To mount Air Box to the wall or ceiling, attach the base plate to the desired location using adhesives or screws.

Align base plate teeth with the back of the Air Box slots and rotate clockwise to lock them into place.





2. Download the APP

Please scan the QR code below with your smartphone to download and install the APP.



3. Create Account

Open the App and register as a new account.

1:49 PM

WelSPACE
FIELDCONTROLS

Email Address or Phone Number

Enter Password

Remember Password [Forgot Password](#)

Login

Create Account

Version PROD_1.8.16.2

Agree (Privacy agreement), (User agreement)

1:49 PM

Register

by mobile phone by email

Account +1 Enter Cell Number

Verification Code Enter Verification Code [Send Verification Code](#)

Password Enter Password

Confirm Password Re-enter Password

Register Account

1:49 PM

Register

by mobile phone by email

Email US Enter Email

Verification Code Enter Verification Code [Send Verification Code](#)

Password Enter Password

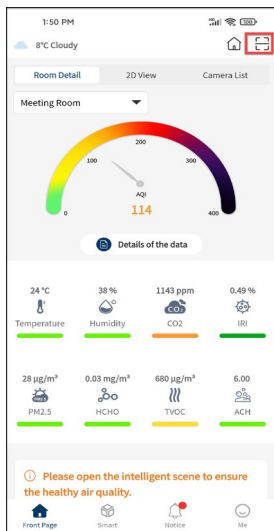
Confirm Password Re-enter Password

Register Account

4. Add a Device

To add a new Air Box, click on the upper right corner and scan the QR code below to add a device.

NOTE: Make sure the mobile phone is connected to the 2.4GHz Wi-Fi band.



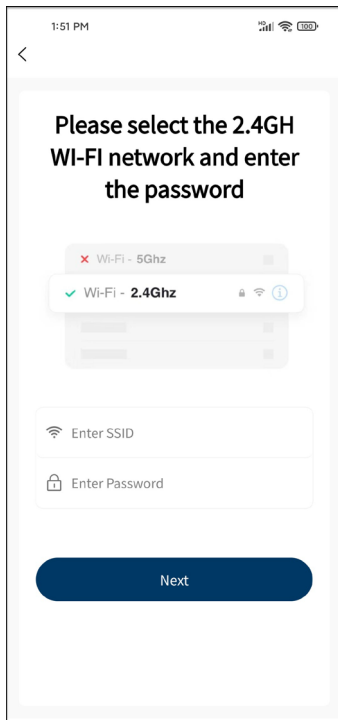
Enter in the Wi-Fi account and password.

Click the button “Next”.

NOTE: The device will only connect to 2.4GHz Wi-Fi.

If you do not know if the Wi-Fi is 2.4GHz, talk with your IT department.

The “Guest” Wi-Fi is typically 2.4GHz.



Press and hold button on back of Air Box for 5 seconds to turn on pairing mode.

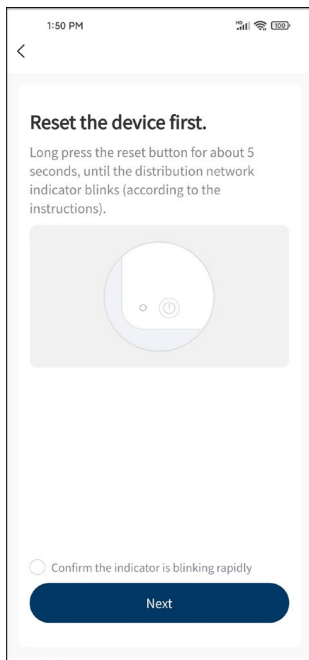
Confirm the indicator on the Air Box is blinking rapidly; Click the button “Next” .



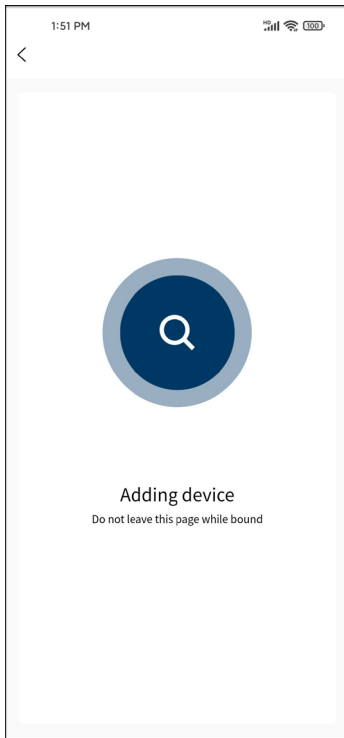
Pairing Button



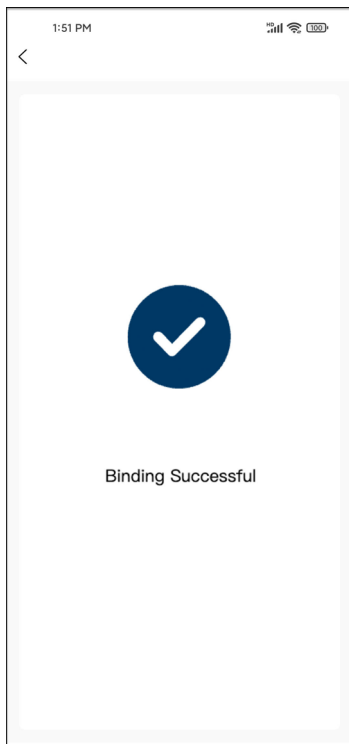
Flashing Indicator



The app and device will configure its network automatically.



Once the device has been added successfully, the page will automatically jump to the homepage (Front Page) after three seconds or click the return button in the upper left corner to quickly return.



Troubleshooting

The Air Box device did not connect:

- Check to confirm the Air Box indicator flashes
- Confirm you have connected to 2.4GHz Wi-Fi

The Air Box indicator does not flash or flashes at an abnormal frequency:

- Check the power cord is plugged into power and inserted into the back of the Air Box
- If the power cord is correctly connected, please unplug the power of the Air Box, then plug it back in to restart the Air Box.
- If the indicator light of the Air Box still does not flash or flash abnormally after the above operations. Press and hold the Pairing button on the back of the device for 5 seconds.
- Reconfigure the network settings for the Air Box.

No response when the Air Box is powered on:

- Check if the power supply of the Air Box is properly connected, ensure that the power adapter used is the original/equivalent voltage adapter.

Data transmission issues:

- Verify if the Air Box is connected to Wi-Fi properly, a normal Wi-Fi connection

is indicated by a blue light on the front when the power is on.

Precautions

1. Do not connect the transmitter to a place where the voltage is above 24VDC.
2. Please refer to the product appearance and size drawings in the user manual to install the equipment.
3. Install the transmitter at the location that needs to be detected, keep it away from heating elements or steam sources, and prevent direct sunlight.
4. When wiring the circuit, connect the wires to the terminals to ensure that the wiring is correct and firm.
5. Try to stay away from high-power interference equipment, so as not to cause inaccurate measurement, such as transmitters, motors, etc.
6. Avoid installing in areas that are easy to transfer heat and will directly cause a temperature difference with the area to be measured, otherwise, the temperature and humidity measurement will be inaccurate.

Indication for Use

This product is not a medical device and is not intended to be used as a medical device or to cure any disease or condition, nor should it be used in the mitigation, treatment, or prevention of any disease or condition.

Legal Notice

Only qualified and licensed HVAC technicians may install this device.

The Air Box device, power supply, and additional accessories should be disconnected from any electric supply when touching their surface or inner parts.

Field Controls will not be liable for any loss or damage in any case of misuse or installation by a non-qualified person or not in compliance with the directions included in this manual.

Field Controls does not claim that the Air Box will ensure consumers using the device will not contract biological pathogens. Consumers should continue to follow guidance from governmental health organizations and certified health professionals about preventative measures.

Assembled in China



Warranty

For warranty information about this or any Field Controls product, visit

www.fieldcontrols.com/warranty

Field Controls Customer Service

252-522-3031

For more information, including specifications and additional resources, please visit
the product webpage:

www.fieldcontrols.com/indoor-air-quality-sensor

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