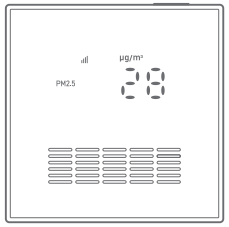
Smart air quality detector instruction manual

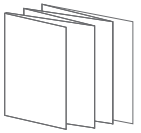


01/Product overview

This product is a high stability indoor air quality detector (hereinafter referred to as the detector), used to detect the air quality in the indoor environment. It can detect: CO_2、PM2.5、PM10、temperature and humidity. It is a multi-functional smart air quality detector. This product uses advanced sensors, with the features of high stability, minimal sensitivity drift, and a long service life. It uses advanced Zigbee wireless networking technology, ensuring stability and reliability, and can report environmental data in real time. When the detector detects that indoor air quality has deteriorated to exceed standards, it will proactively send an alarm concentration to the smart gateway. The smart gateway then uses cloud servers to push real-time alarm messages to the mobile APP. Unde- rstand the indoor air environment anytime and anywhere to maintain the best indoor air quality. Suitable for: Residential, office and other indoor environment.

02/Packaging list

Detector x1

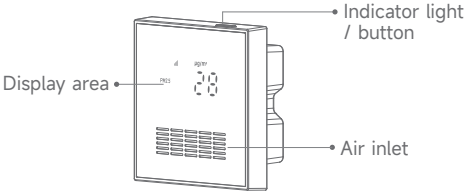


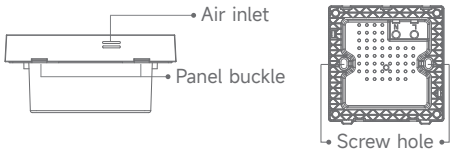
Instruction manual x1

Qualified Certificate x1

screw x2

03/Product description diagram





04/Features

1. Use LED display screen
2. Indoor air quality level: Excellent, Good, Poor
3. Automatic real-time reporting of product status
4. Fashionable appearance design
5. Zigbee 3.0 wireless communication
6. NDIR sensor
7. Customized mobile APP
8. Live wire、Neutral wire power supply

05/Technical parameters

1. Working voltage: AC 220V/50Hz
2. Display mode: LED
3. Alarm instructions: Three color LED
   Excellent-Green, Good-Yellow, Poor-Red
4. Networking mode: Zigbee 3.0

5. Detection method: PM2.5、PM10--Laser type
   CO_2--NDIR HT--Diffuse
6. CO_2 detection range: 400 ~ 5000ppm
7. CO_2 measurement error: ± (50ppm+5% reading value)
8. Type of CO_2 sensor: Non-dispersive Infrared (NDIR) sensor
9. Temperature detection range: 0°C ~ +40°C
10. Temperature detection error: ±1°C
11. Humidity detection range: 15 ~ 90%RH
12. Humidity detection error: ±8%
13. PM2.5 detection range: 1 ~ 999μg/m³
14. PM2.5 error: 0 ~ 100μg/m³: ±10μg/m³
    100 ~ 500μg/m³: ±10%
15. PM10 detection range: 1 ~ 999ug/m³
16. PM10 detection error: 0 ~ 100μg/m³: ±30μg/m³
    100 ~ 500μg/m³: ±30%
17. Working temperature: 0°C ~ +40°C
18. Working humidity: 15 ~ 90%RH(no condensation)
19. Installation method: 86 box
20. Product size: 86mm x 86mm x 40mm

06/Tips

Read the instructions below carefully and follow all warnings before using the device for the first time, even if you are familiar with the use of electronic devices.

1. Because the detector uses high precision sensors and components, please install the product in a dry environment without strong light direct exposure.
2. The detector should be kept open for at least 6 hours in the natural ventilation environment within 7 days after being powered on.The above is to make the detector more stable.
3. Do not cover the air inlet hole when using.
4. The detector is not waterproof, please do not immerse or splash water or other liquids into the detector.
5. Do not insert thorns, inflammable or metal objects into the air inlet hole of the detector, otherwise it

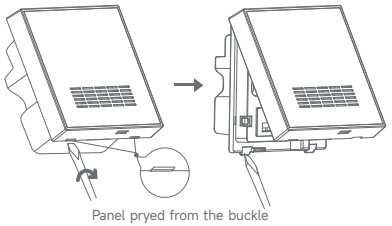
6. If the equipment falls or is otherwise damaged, it cannot be used again.
7. ABC Logic Calibration

To ensure the calibration of ABC Logic operates correctly, the detector must continuously monitor CO_2 levels for at least 7 days (after turning on). During this period, the detector will record the lowest CO_2 level and set it as a baseline of 400ppm for future readings. Therefore, when using ABC Logic for calibration, the detector should be exposed to fresh air at least once within 7 days. ABC Logic calibration is not suitable for high closed areas.

⚠ Note: Do not put the detector near your face, as your breathing will affect the CO_2 detection concentration of the detector.

07/Product installation

1. It is recommended to use 86 type box with 40mm deep plastic bottom for installation.
2. When installing the equipment, turn off the main power switch and use an electric pen to confirm that the live wire in the dark box is not electrified.
3. Use a screwdriver to pry open the panel through

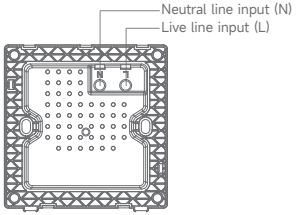


*Note: When prying open the panel, please use a screwdriver to pry open the buckle from the panel. If you do not follow this instruction, the equipment may be damaged.

Wiring instructions

Connect the live wire to the L interface and the neutral wire to the N interface. After confirming that the wiring is correct, tighten the terminal screw.

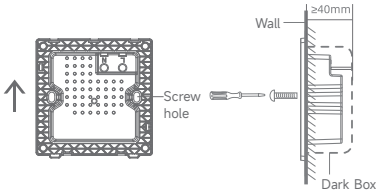
* Live line It is usually a red wire, and the neutral wire is usually blue or black.



Installation instructions

1. Check the wiring to ensure that the copper wire is in good contact with the terminal and there are no exposed wires.
2. Pay attention, the installation base must be directed upward according tothe arrow in the figure, and use the screw to fix the detector into the dark box.

* Note that the screws should not be tightened too tightly during installation to avoid deformation or damage to the screen and hardware.
* If some problem during installation, do not press the screen forcefully, please confirm whether the wall is vertical and check the bracket.



3. After the panel is aligned with the top edge buckle position (Figure 1), then buckled the bottom buckle position (Figure 2).

When fastening, the panel must be aligned with the top edge of the buckle

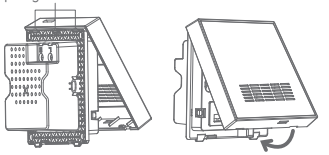


Figure 1 Figure 2

⚠ **safety instruction**

a. This product must be installed or removed by an electrician with professional qualifications.

b. Before installing or removing this product, you must cut off the power switch to prevent electric shock.

c. This product should be installed and used away from fire source and water source.

d. This product should not be used in humid environment (such as bathroom).

08/Pairing network

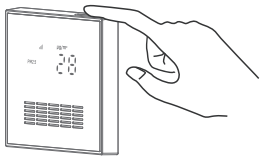
1. Open the App, select the gateway to be connected, click"+"on Gateway page to add a sub-device, select "Air Quality", and continue to operate according to the App prompts until the App prompts that the connection is successful.

2. Pay attention, the installation base must be directed upward according to the arrow in the figure, and use the screw to fix the detector into the dark box.

❗ Tips:

1) Due to the upgrade and update of the APP, this guide may be slightly different from the actual one. Please follow the instructions in the APP.

2) This product is an Internet device. Upgrading to the latest official software version will give you a better user experience.



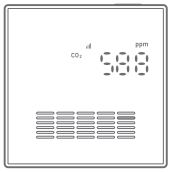
2. Follow the APP's instructions: long press the device's network button for 5 seconds to enter the network connection process. The green light and network icon "📶"will flash (5 times per second). And when the connection is successful, the green light will be off for 3 seconds and then stay on, the network icon "📶"with stay on. and the App indicating a successful connection. If the device fails to connect within 60 seconds, the network connection will be stopped, the green light will slow flash (2 times per second) for about 3 seconds and then stay on, and the App will indicate a failed connection.

Note: If the device is in the process of networking, pressing the networking button again will stop the networking. The green light will flash slowly for 3 seconds(2 times/second) and then stay on.

09/Light & Screen status

Status of the detector	Status indicator light status	Screen
Air status is excellent	Green light on/off	stay on
Air status is good	The yellow light flashes for 30s and then stays on/off	flash for 30s and then stay on
Air status is poor	The red light flashes for 30s and then stays on/off	flash for 30s and then stay on
Wiring of the detector	The green light is flashing	display "📶" after success

10/Display interface



CO_2

Humidity

PM2.5

PM10

Temperature in Celsius degrees

Temperature in Fahrenheit degrees

11/Display interface switching

Button switch interface: each time you press the detector button, it will switch to the next interface.

When the detector is in the off-screen state, press the detector button once to enter the on-screen state.

12/Display icon

Bluetooth		Temperature	
Zigbee		°C	in Celsius degrees
Wi-Fi		°F	in Fahrenheit degrees
%	percentage	μg/m³	micrograms per cubic meter
Humidity		CO_2	Carbon dioxide

PM2.5 Fine particulate matter with diameter ≤2.5μm

PM10 Fine particulate matter with diameter ≤10μm

ppm Carbon dioxide content expressed as parts per million (parts of CO_2 per million molecules in the air)

* The above icon is an example of all icons. The display screen displays the corresponding icon according to the actual function of the product.

13/Do Not Disturb function

Do Not Disturb on:
When the air quality level is poor, the display screen lights up and the red light and alarm value flash for 30 seconds. The indicator light and screen display remain on for one minute before the display screen goes out.

The red light flashes every five seconds until the air quality level is restored to good;

The yellow light flashes every five seconds until the air quality level is restored to excellent;

Then the green LED flashes every 5 seconds.

* Do not disturb time can be set in the APP.

14/Product cleaning

1. Please clean the detector regularly. You can use a vacuum cleaner or blow off the dust deposits in the air inlet of the detector directly.

2. A soft brush can be used to remove dust.

3. You can use a soft cloth dipped in soapy water to wipe the product surface. Please do not let the water enter the detector.

4. Do not clean the detector in the dishwasher.

5. Do not use sharp or pointed tools or hard brushes to clean this product.

6. Do not use chemical cleaning agents or highly flammable liquid to clean this product.

15/Fault analysis and troubleshooting

Fault phenomenon	Analysis of causes	Elimination method
No display	whether the equipment is powered on	connect the power cord and turn it on
Data failure	Poor air quality in indoor environments	Please open the windows and doors to ventilate for 6 hours before using
	Sensor malfunction	Contat the dealer for repair

16/Harmful substances in products

Component Name	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	hexavalent chromium (Cr(VI))	polybrominated diphenyl ethers (PBDE)	Polybrominated biphenyls (PBB)
Circuit components	X	O	O	O	O	O
Shell	O	O	O	O	O	O
Small piece Institutional materials	O	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T 11364.

o: the content of the hazardous substance in all homogeneous materials compared is below the limit requirements specified in GB/T 26572.

x: indicates that the content of the hazardous substance in at least one homogeneous material of the component exceeds the limit requirements specified in GB/T 26572, and there is currently no mature alternative solution in the industry, which complies with the environmental requirements of the EU RoHS directive.

17/Disclaimer

1. This manual introduces the product in as detailed as possible, but the company reserves the right to make modifications. This manual will not be notified separately.

2. Due to printing and other reasons, the appearance of products in the manual may be slightly different from the actual product. Please take the actual product as the standard.

3. This information is for reference only and does not constitute any form of commitment.