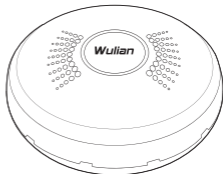


# **Wulian<sup>®</sup>**

ISO9001:2008 Certified

## **Smart CO<sub>2</sub> Detector**

**User Manual**

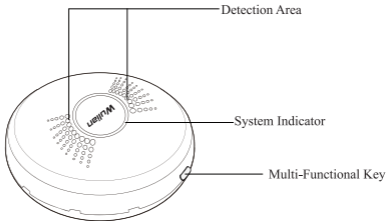


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# Welcome to Use Wulian Smart CO<sub>2</sub> Detector

- Wulian is the registered trademark of Nanjing IOT Sensor Technology Co., Ltd. All the other product names or trademarks mentioned in the manual belong to the trademarks or registered trademarks of the respective possessors.
- Please read this manual carefully to ensure proper and safe use before using this product.
- Wulian Smart CO<sub>2</sub> Detector (hereinafter referred as “this product”) is manufactured by Nanjing IOT Sensor Technology Co., Ltd. (hereinafter referred as “Wulian”) as a product in the category of controlling. This product shall be used with Smart Home App as well as supplied accessories. Wulian is not responsible for any loss due to improper installation or usage of this product.
- Wulian will update product information in this manual anytime without prior notice. Please pay attention to our information timely and download Smart Home App with the latest edition.
- Without specific written permission from our company, no individuals or companies can copy the content or part of the content in this manual, or use the registered trademark of our company. We will investigate for the legal responsibility of individuals or companies for illegal use of our trademark.
- Welcome to visit Wulian official website [www.wuliangroup.com](http://www.wuliangroup.com) for more information.

## Product Illustration



## Features

- When detecting the indoor CO<sub>2</sub> concentration is over alarm value under alarming, this product sends alarm message to smart App terminal.
- Adopt high-precision CO<sub>2</sub> sensor to collect real-time and accurate data.
- Make linkage with our smart switch, smart sound and light alarm, etc. to switch the customized scene modes.
- Core system is low energy consumption and green.
- Unique in appearance and design. Shell is made of high shock-resistance material, and it's sturdy and durable.

## Software Download

Option A:

Download the latest Smart Home App by scanning the QR code on the package box of this product.

Option B:

iOS user can download the App by searching "Wulian Smart Home" in "App Store".

Android user can download the App by searching "Wulian Smart Home" in "Google Play".

**Warm prompt: For the first use, please download Smart Home App and read user manual carefully. Please pay attention to Wulian information to download the latest App in time.**

## Installation Steps

Option A:

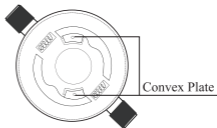
Installation conditions: It suits the top surface or wall with ceiling mounting holes (about 68mm-80mm in diameter) or can be punched to draw out the power line.

Installation List: Detector Body, Ceiling-Mounted Base.

Step 1: Attach base of this detector to the main body (Aim the Convex Plate on the Ceiling-Mounted Base to the Mounting Slot at the bottom of the Body, turn clockwise after clipping it in).

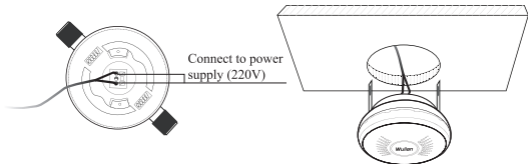


Body



Ceiling-Mounted Base

Step 2: Connect with power line, pull up torsional spring, and then tuck it in the mounting hole to finish the installation.



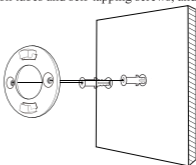
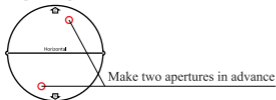
**Note: Cut off electricity before installation. Caution electric shock, operation of non-professionals is strictly prohibited!**

Option B:

Installation conditions: It suits the top surface or wall without ceiling mounting holes but can be punched small holes to draw out the power line.

Installation List: Detector Body, Wall-Mounted Base, Expansion Tube, Self-Tapping Screw, Installation Auxiliary Card.

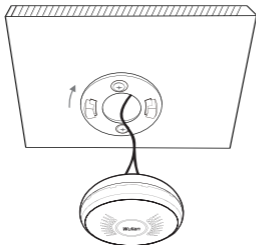
Step 1: Make two apertures by drill as per information on the installation auxiliary card. Fix the Wall-Mounted Base at the wall or ceiling via 2 expansion tubes and self-tapping screws, and then pull out power line from the center of base.



**Notes: Make a aperture of 5mm by drill. Center distance of two pretargeting aperture is 40mm.**



Step 2: Connect with power line. Attach the main body to the base, and rotate clockwise to fix main body to finish the installation.



Option C:

Installation Conditions: It suits the top surface or wall without ceiling mounting holes (about 68mm-80mm in diameter) and can be punched, power line cannot be drawn from the wall but from the side.

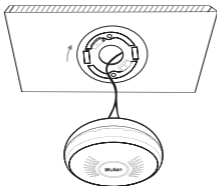
Installation List: Detector Body, Ceiling-Mounted Base, Expansion Tube, Self-Tapping Screw.

Step 1: Remove torsional spring from Ceiling-Mounted Base. Mark the hole on the wall or ceiling, then punch with electrical drill and put 2 Expansion Tubes into the hole. Pull power line out of original gap on torsional spring, then fix the Ceiling-Mounted Base at the wall or ceiling with Self-Tapping Screws.



**Notes: Make a aperture of 5mm by drill. Center distance of two pretargeting aperture is 54mm.**

Step 2: Connect the power line to the Body. Then clip the Mounting Slot of the Body in the wall type Convex Plate of the Base accurately, rotate clockwise and engage it.



## Networking

1. Before setting, please make sure the gateway (needs to be purchased) works normally and the ZigBee network indicator flashes, also the product is in a power-on state and within valid communication scope of the wireless gateway.
2. Before operating, please make sure the product is not connected to any other gateway; or exit the connecting ZigBee network before networking again (new product can be connected to the network directly).
3. Networking

### ① First time to join the network

- Allow the gateway for networking (refer to the gateway manual for details);
- When use the product for the first time, power it on and it will apply to join the ZigBee network automatically;
- Then the [System Indicator] flashes while searching for the network;
- When successfully joins the ZigBee network, the [System Indicator] stays on for 2 seconds and then goes out.

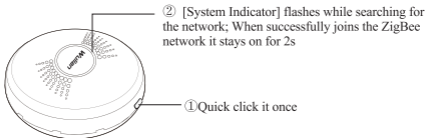


① [System Indicator] flashes while searching for the network

② When successfully joins the ZigBee network, the [System Indicator] stays on for 2s and then goes out

② Join the network manually

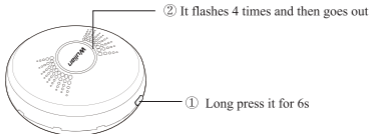
- Quick click [Multi-Functional Key] once, then the [System Indicator] flashes while searching for the network;
- When successfully joins the ZigBee network, the [System Indicator] stays on for 2 seconds and then goes out.



**Note: Quick click the [Multi-Functional Key] one time and [System Indicator] flashes once to indicate successful networking.**

#### 4. Exit Setting

- Long press the [Multi-Functional Key] 6s and loose it;
- Then the [System Indicator] flashes 4 times regularly and goes out to exit the current ZigBee network.



#### Note 1:

If the device cannot join the ZigBee network after the operations above, please follow the following steps (please make sure the gateway is allowed for networking): ①exit the network (refer to Exit Setting for details); ②wait for 2s and quick click [Multi-Functional Key] once to join the network.

#### Note 2:

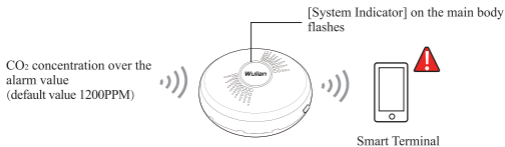
After exiting the network, please do not cut off the power (such as switching off the power, removing the battery, etc.) within 4s in case of device abnormality.

## User Guide

1. Send the indoor CO<sub>2</sub> concentration value to smart mobile terminal.



2. When detecting the indoor CO<sub>2</sub> concentration is over alarm value (default value 1200PPM), this product will send alarm signals to smart mobile terminal automatically. Meanwhile, [System Indicator] on the main body flashes red 4 times.





## Electrical Parameter

Communication Mode	IEEE 802.15.4 (ZigBee/ SmartRoom)
Antenna Type	Internal Antenna
Power Parameter	110V-240V AC
Detection Concentration	400-2000PPM
Alarm Value	1200PPM (Default value)

## Structure Parameter

Overall Dimension (Diameter × Thickness)	Φ98×46 (mm)
Material & Color	PC, White
Net Weight	60 (g)
Installation Method	Ceiling/Wall Mounted
Flame Retardant Rating	UL94 V-0
Working Temperature	-10℃ ~+45℃
Working Humidity	≤95%RH (Noncondensing)

## Purchasing Information

Name	Model	Material & Color
Smart CO <sub>2</sub> Detector	WL-ZSSCNPW-DM-01	PC, White

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Official Website: [www.wuliangroup.com](http://www.wuliangroup.com)