

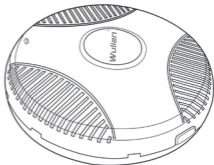
Wulian[®]

ISO9001:2008 Certified

Smart Flammable Gas Detector

WL-ZSPCNPW-CG-03

User Manual



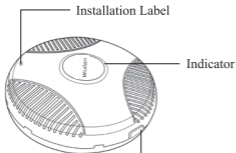
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Publication No.: 2016-0526.V01

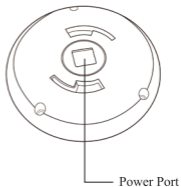
Welcome to use Smart Flammable Gas Detector

- **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.
- Wulian Smart Flammable Gas Detector (hereinafter referred as “this product”) is manufactured by Nanjing IoT Sensor Technology Co., Ltd. (hereinafter referred as “Wulian”). 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 for more information.

Product Illustration



Front of Main Body



Back of Main Body

Features

- Support IEEE 802.15.4 (ZigBee/SmartRoom) protocol.
- When the concentration reaches the preset warning value, this product will immediately send out sound and light alarm signal, and send the alarm message to the user's all kinds of mobile smart terminals timely to remind user to take effective measures in time.
- This product can link with other smart devices like Smart Automatic Manipulator or Smart Window Opener to eliminate the danger in time and avoid the accident effectively.
- Adopt precise sensor to detect the surroundings to preclude false alarm.
- Strong anti-interference capability; Adjust sensitivity automatically; Monitor gas source all the time.

Electrical Parameter






Communication Method	IEEE 802.15.4 (ZigBee/ SmartRoom)
Antenna Type	PCB Antenna
Power Parameter	100-240V AC, 50/60Hz
Max Power Consumption	<5W
Standby Power Consumption	<3W
Alarm Decibel	>80dB@1m
Communication Distance	300m (depend on specific environment)
Alarm Concentration	9%LEL±1%
Detecting Gas Type	Natural Gas, Liquefied Gas
Detecting Method	Catalyst Contact Combustion Type Sensor

Structure Parameter

Overall Size (Diameter * Thickness)	98X45 (mm)
Material & Color	PC, White
Working Temperature	-10℃ ~+45℃
Working Humidity	≤95%RH (Noncondensing)
Installation Method	Sidewall Type
Flame Retardant Rating	UL94 V-0
Net Weight	115 (g)
Storage Temperature	-20℃ ~+60℃

Sign Instruction

For using the detector correctly to avoid dangers on your life and property, here are some signs in this manual. Please read the user manual carefully on the basis of understanding these marks.

 Dangerous	Incorrect operation by ignoring this sign is likely to cause death or serious injury to the user.
 Warning	Incorrect operation by ignoring this sign is likely to cause death or serious injury to the user.
 Caution	Incorrect operation by ignoring this tag may cause death or serious injury to the user.
 Prohibit	General Prohibition
 Must Implement	Must Implement

Software Download

Option A:

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

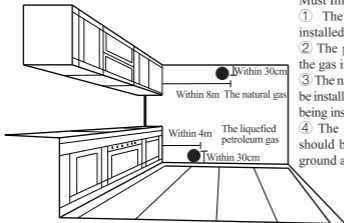
Option B:

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 Instruction



Must Implement

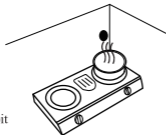
- ① The detector and the burner are installed in the same room.
- ② The place is easy to install and check the gas in detention.
- ③ The natural gas, coal gas detectors need to be installed within 30cm from the roof, while being installed within 8m from the burner.
- ④ The liquefied petroleum gas detector should be installed within 30cm from the ground and within 8m from the burner.

Warning

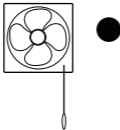
- Must be installed in a room where there is a possibility of gas leakage. Gas leakage of other rooms may not cause alarm.
- This detector cannot be installed in the bathroom against electric leakage.

Caution

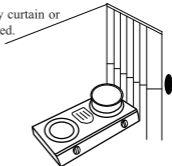
① Steaming toward stove directly is prohibited.



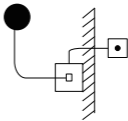
② Installation in the place with good ventilation is prohibited.



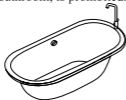
③ Obstruction by curtain or shield is prohibited.



④ Installation in the place with regular power outages is prohibited.



⑤ Installation in the place with large vapor, like bathroom, is prohibited.



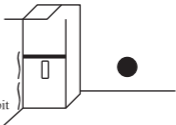
Prohibit

⑥ Installation in the place with seam and ventilation is prohibited.



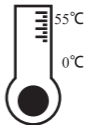
Prohibit

⑦ Installation in the place vibration and shock is prohibited.



Prohibit

⑧ Installation in the place under the temperature of 0°C or above 55°C is prohibited.



Prohibit

Installation Steps

Note: Due to the detection of the airflow direction, Wall-Mounted method is recommended.

Option 1

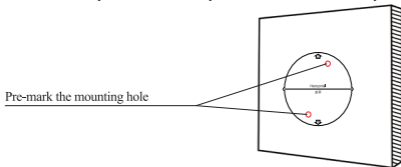
Installation Conditions: It suits the top surface or wall without ceiling mounting holes (about 68mm-80mm in diameter) or can be punched small holes to draw out the power line.

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

The power line is about 10mm (without shell), while the stubs gage is 14-22 AWG.

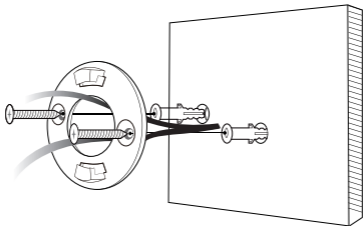
Installation Steps:

1. Mark the screw location by Installation Auxiliary Card. Then drill holes on the by drill .

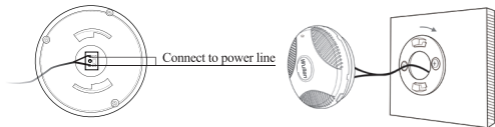


Notes: Make an aperture of 5mm by drill. Center distance of two pre-targeting aperture is 40mm.

2. Fix Wall-Mounted Base via Self-Tapping Screws on the wall and pull the power line out of hole.



3. Connect the main body of detector with power line. Aim the convex plate on the base at the mounting slot of main body and rotate clockwise to finish installation.



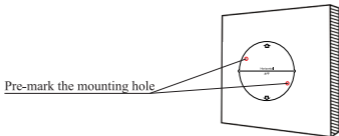
Option 2

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

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

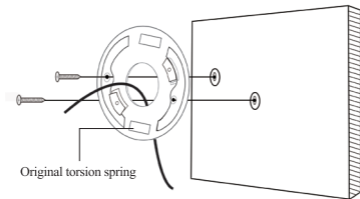
Installation Steps:

1. Mark the screw location by Installation Auxiliary Card. Then drill holes on the by drill and put in 2 expansion tubes.

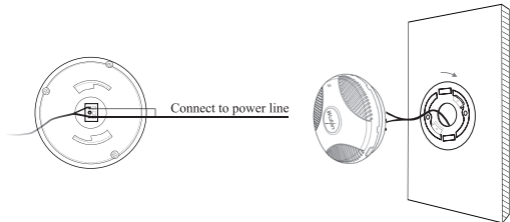


Notes: Make an aperture of 5mm by drill. Center distance of two pre-targeting aperture is 54mm.

2. Fix Wall-Mounted Base via Self-Tapping Screws on the wall and pull the power line out of hole of original torsion spring.



3. Connect the main body of detector with power line. Aim the convex plate on the base at the mounting slot of main body and rotate clockwise to finish installation.



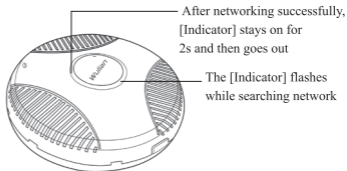
Note: The arrow in label paper should be vertical upward after installation.

Network Setting

1. Before setting, please make sure the gateway (need 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 quit the current ZigBee Network before adding the product into other network (New product can network directly).

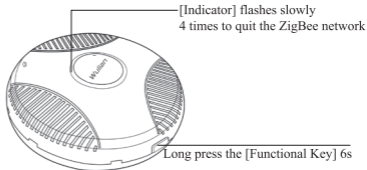
3. Networking

Allow the gateway for networking. Then device will apply for the ZigBee network automatically when power-on and the [Indicator] flashes while searching network. After joining the ZigBee network successfully the [Indicator] stays on for 2 seconds and then goes out.



4. Quit the network

Long press the [Functional Key] 6s, the [System Indicator] flashes slowly 4 times to quit the ZigBee network.



Note:

If the product needs to add the ZigBee network again, user can operate through 3 methods: quick click [Functional Key] once; or 4 times (with each click within 1s); or restart the power to search or add the network.

Usage Scenario



Smart Gateway



Smart Flammable Gas Detector



Smart Automatic Manipulator

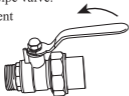


Sound Warner

Process Method on Gas leakage Alarm

① Close the pipe valve.

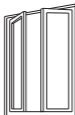
Must Implement



 Prohibit

② Open the doors and windows to ventilate.

Must Implement



 Prohibit

⑤ Check the reason of gas leaking and make professionals to repair.



Dangerous: When the detector alarms, please close all the valves of the burners.

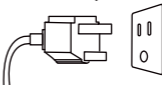
③ Touch any electric plug or open flames is prohibited.

 Prohibit



④ Don't cut off the power of the detector or eliminate alarm. When the leaking gas disappears, the alarm will stop automatically.

 Prohibit



Considerations



Caution

- ① Do not use substance with irritating odor near the detector, such as hair gel, pesticides, diluent, oil paint, adhesive, a large amount of alcohol liquid, etc., for avoiding false alarm.
- ② Do not cut off the power or move the installation location.
- ③ Don't throw, fall, or disassemble the detector.
- ④ A slight fever when working is a normal phenomenon.



Prompt

The detector will alarm when detecting following cases, but it will stop later. So please do not cut off the power supply.

- ① Insecticide or hairspray is approaching to the detector.
- ② The smoke of the cigarette drifts into the detector.
- ③ The extensive use of high concentrations of solvent and diluent, benzene, alcohol, or mosquito repellent incense.

Other Considerations



Caution

- ① Please be sure to replace it with the new detector when the detector exceeds the guarantee period. Particularly, do not install the detector outside.
- ② This product is only used in case of gas leakage to perceive and alarm.
- ③ Any quality problems of products in the warranty period can be repaired freely. However, it is paid inspection or replacement when involving in the following conditions.
 - It is confirmed that the detector is normal.
 - Failure or damage caused by not operating according to the user manual.
 - Failure or damage caused by force majeure such as fire, natural disasters, abnormal voltage, abnormal temperature, etc.
 - Improper installation location (bathroom, outdoor, high temperature and humidity, etc.).
 - Failure or damage caused by moving or falling from the installation position after installation.
 - Failure or damage caused by disassembling the detector after installation.
 - Improper selection of the detector type or change the gas type after installation.

- ④ Do not install the detector when decorating (a variety of gas released by decoration materials will affect the detector).
- ⑤ Do not use decoration materials with silicon (silicon gas will cause the sensor poisoning).
- ⑥ Do not charge the detector before living in the house after decoration (please open the window to reduce gas released by the decoration materials).
- ⑦ Do not use waxing or spray around the detector (mixed gas will cause false alarm or delay).
- ⑧ Do not use detergent or acid alkali substances.
- ⑨ Can be wiped gently by wet cloth.

Purchasing Information

Name	Smart Flammable Gas Detector
Model	WL-ZSPCNPW-CG-03
Material & Color	PC, White

No. 15, Fengji Road, Yuhuatai District, Nanjing, Jiangsu Province, China

Email: overseas@wuliangroup.com

Service Line: +86-400 889 2891

Official Website: www.wuliangroup.com