YUPA

Marca: YUPA

Origine: CN (Origine)

Colore: WHITE

Name: Natural Gas Leakage Detector

Quiescent Current: <150mA

Alarm Sound: >80 dB

Certificazione: CE

Piattaforma di casa intelligente: Altri

Numero modello: PA-210R

Feature: Gas Sensor

Alarm Current: <300mA

Size: 99.5*99.5*34mm

Wifi gas detector user manual

Installation method: wall mount
Air Pressure: 86~106Kpa
Operation Temperature: 0~55℃
Relative humidity: <80% (no condense)

4.product structure

USB 5V socket　　gas input　　Test button

external valves socket

1.Instruction

This gas detector used for the natural gas field, which can do the security detecting and alarming for the burning,exploding,poisoning caused by naturals gas leaking. And the device has the high sensitive, stable, full type gas detecting and small size features.

2.Features

For different types of alarm detectors, there main function should be as below:

type＼function	Strobe alarm	Wireless alarm code	Electrical Valves	WIFI (APP push)	Voice notification
Stand alone	✓				
Wireless(RF)	✓	✓	✓		
Wifi (mainland China)	✓		✓	✓	
Wifi voice notification (mainland China)	✓		✓	✓	✓
Wifi voice notification (out of mainland China)	✓		✓	✓	✓

When the device detected the thickness of the natural get to 8% LEL, device will alarm and push the message by app, and close the electrical Valves, when the gas thickness recovery to 0% LEL, device will stop alarming and recovery to normal monitoring.

3.Technical Parameters.

Input voltage: DC5V (micro USB standard connector)
Operating current: <150mA
Alarming time: <30 second
Element age: 3 year

5.LCD interface introduction

(Preheat mode)

(Normal operation mode)

① : System preheat countdown: device meed to preheat 180 seconds after power on, system will get into monitor status when preheat finished.
② : wifi mode icon: "--" flashing, means no wifi or wifi drop off "□" means wifi connected, no wifi device, will not show this icon.
③ : current temperature value.
④ : Natural gas perimeter environment thickness value: value higher, means the thickness higher, when the thickness get to 8%LE, alarm will be triggered.

6.General functions

+Testing function

Test if the device working norm; different type, different function. So with different operation. At the normal standby status, push the "TST" button.

■ **Stand alone type:**
Screen waking up, Led flashing 1 times, siren will sound 1 times. Push the wireless alarm code.

■ **Wireless type:**
Screen waking up, Led flashing 2 times, siren will sound 1 times. Push the wireless alarm code

■ **Wifi type:**
Screen waking up, Led flashing 2 times, siren will sound 1 times; in the wifi connected mode, push the message to the app, App push in the backstage.

■ **Wifi type with voice notification:**
Screen waking up, Led flashing 2 times, siren will sound 1 times; in the wifi connected mode, push the message to the app, App push in the backstage. Also with the voice notification.

+Alarm function:

When device triggered, (when detector detected the gas thickness get to the warning value, then will have alarm demand) will make the alarm actions, different type has the different operations.

■ **Stand alone type:**
Device make the alarm sound.

■ **Wireless type:**
Device make the alarm sound, send the wireless SMS, electrical valves shut.

■ **Wifi type:**
Device make the alarm sound, electrical valves shut. In the wifi connected mode, push the message to APP, app pushed in the back stage.

■ **Wifi type with voice notification:**
Device make the alarm sound, electrical valves shut. In the wifi connected mode, push the message to APP, app pushed in the back stage. Also with the voice notification.

+Mute function

In the gas alarm status, press the "TEST" button on the device or press the mute on the app, device will get into the mute mode.

7.Wi-Fi function

Configuration used to connect the device with the wifi, after succeed, it can used the mobile app to monitor the device status remotely; mobile app is a kind of intelligent cloud service, refer the" intelligent cloud app operating guide" for its operation.

→download APP

Scan the QR cord on the fist page of the user manual and download the app.

→mobile app configuration

● **Device**

A.normal monitor mode：
System preheat countdown: device meed to preheat 180 seconds after power on, system will get into monitor status when preheat finished.

Wifi status icon should be '--' flashing while starting, means no configuration.

B.Configuration mode：
Push the "TEST" button for 3 seconds till the screen shows "SEt" and flashing,means to get the configuration mode.

Configuration not succeed for more than 2 minutes, push the "TEST" button for 3 seconds and get into the configuration again.

● Mobile App :

A. mobile need to connect the local wifi of the device, open the app and log in, press the "+" at the upper right corner of the first page to add the device, then press the upper right corner to get into the QR code scanning mode, scan the QR code, input the right password, then press" next step".

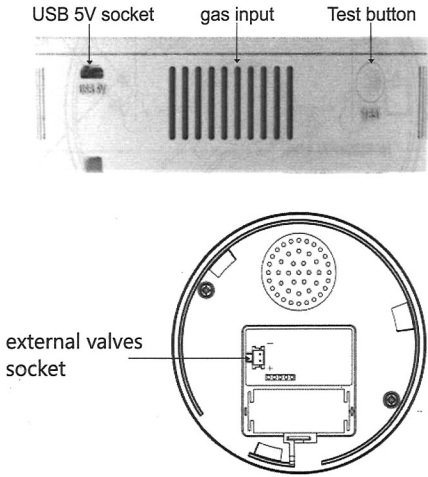**B.** While get into the configuration mode andpress" configuration already".

C. Mobile guide for configuration; If not succeed in 60S, will back to "next step": please make sure if get into the configuration or not、wifi password correct or not and 2.4G network or not ; Then configure again

D. After succeed, will get into the app monitoring interface ; It shows : real-time gas thickness、device status、device mute button and the firmware version number.
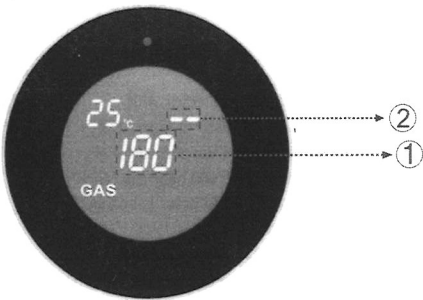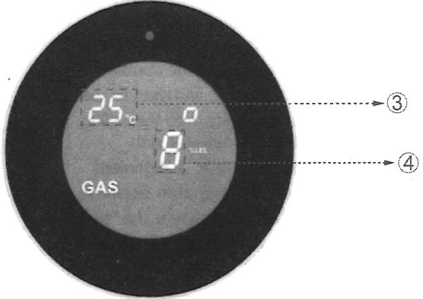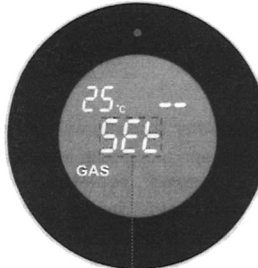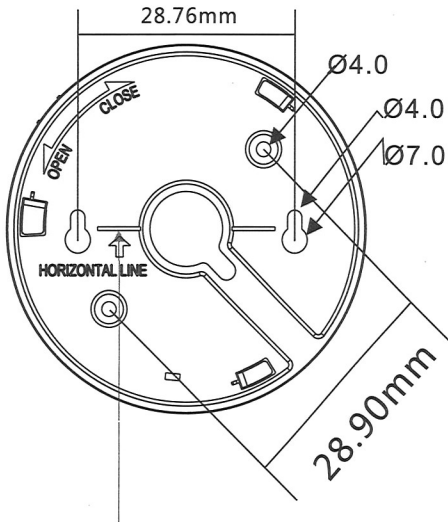
→Unbind Wi-Fi

↓power off the device.
↓plug on the main power and power on the device.
↓ at the preheat countdown status, press "TEST" button for 5 times, till the LCD of the device shows "rES" means the Wi-Fi unbind succeed.
(**Remark: after Wi-Fi unbinding, device will drop off the network, need to configure it again and then use the app.**)

→Electrical Valves output function

Natural gas alarm status: gas alarm happened, the valves will output
Testing mode: at the standby mode, press the "TEST" for 5 times and loose, the valves will output

8.Device adjusting

↓ plug the power at the USB 5V socket of the device.
↓ after power on, device get into the 180S preheat countdown.
↓ after the countdown finished, device get into the normal monitor status, press "TEST" button for several seconds, Wi-Fi configure started (only the first time use, need the Wi-Fi configure)
↓ after the wifi configure succeed, press the "TEST" button and wake up the LCD, the led will flash once and the speaker will "di" once, means the device works normally, APP will push the alarm testing message the same time.
↓ All these finished, the device will network alarm normally.

9.Installation& usage instruction

→ Installation attention :

a. Device designed for wall mount, please install the device on the upright direction for the gas leaking happened areas.
b. device cannot install at the upper direction near the gas source, should be 2m higher than the gas source(to avoid the mistaking alarm while use the gas normally).
c. device cannot install the bathroom or the humid place.
d. device cannot near the paint oil and alcohol, place have these kind of products, need to remove to avoid destroy the sensors.

→ Install dimension :

28.76mm
Ø4.0
Ø4.0
Ø7.0
CLOSE
OPEN
HORIZONTAL LINE
28.90mm

For the best sight of the LCD, To ensure the best viewing angle of LCD display, when installing, use the horizontal line as the standard, place and horizontally.

＞Fixing :

Installing with screws	**a.** drilling holes on the ceiling with impact; **b.** Install the expansion tube on the ceiling; **c.** Fix the mounting plate with tapping screws; **d.** Align the detector with installation plate's alignment and close it, then turn clockwise, and then you will hear the "click" It means the detector is installed in place.
Installing with double-sided adhesive	**a.**Remove the the protective film on t one side of double-sided adhesive, and then stick the double-sided adhesive onto the back of mounting plate **b.** Remove the protective film on the other side of the double-sided adhesive, and then fix the mounting plate onto the ceiling; **c.** Align the detector with installation plate's alignment and close it, then turn clockwise, and then you will hear the "click" It means the detector is installed in place.

10.Emergency Response

When the gas concentration value reaches 8% LEL, the detector will make sound alarm and send alarm information to center. It indicates there is high concentration of leaked gas in the environment. The discoverer should immediately check according to the following procedure.
Note: Leak of paint, cosmetics, alcohol and other chemical
products may also trigger alarm, please keep them away from
the sensor to avoid false alarm
1. Turn off all gas sources.(stoves, cookers, gas water heaters, etc.)
2. Immediately open the doors and windows to make air flow.
3. Do not turn on other electrical appliances.
4. If someone feels headache, nausea, general weakness, irritability or shock and other symptoms, should be rushed to the hospital for emergency treatment.
5. After the gas subsided, find the cause of the alarm and solve it.
6. If you can not rule out the cause of the accident, please consult your property management office.
7. For the cause of the detector's quality problem, please contact the supplier for inspection.
8. For gas leakage cause, please contact the gas company to overhaul gas pipelines, water heaters or stoves, etc. Which may cause leakage of gas.
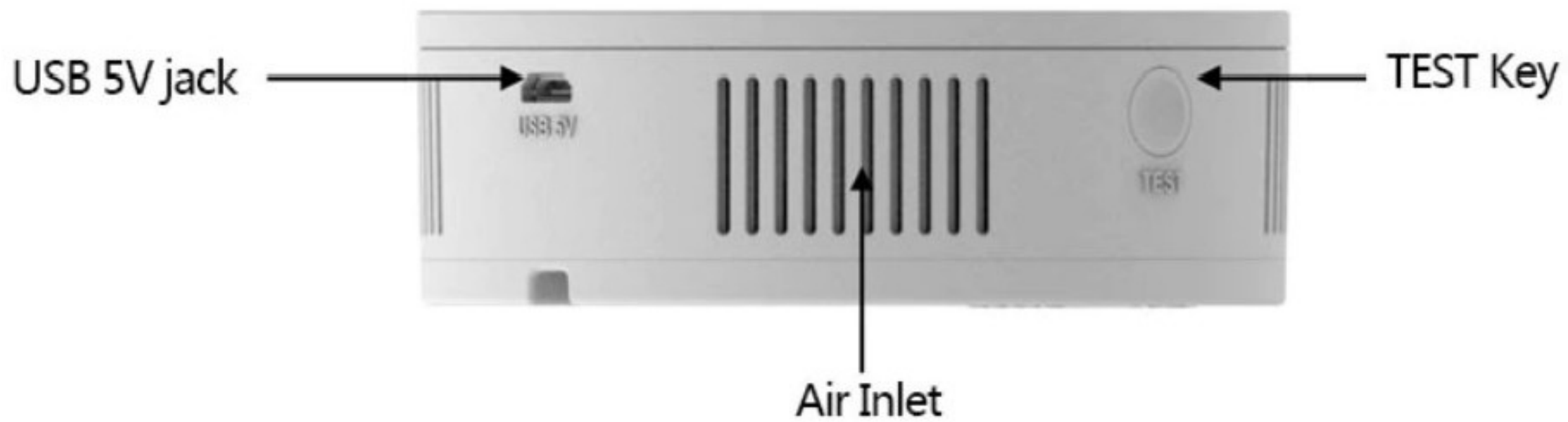
11.Attention

This is a security device. It keeps working after power up. In use and maintenance process, if found to have the following fault symptoms, it should be promptly treated (see the following a / b / c description). If can not be resolved in time, should contact the after-sale service center in time. After the product get back to normal operation, the user should self-check gas
regularly according to their own situation to ensure normal operation.
a. Please refer to installation instructions and debugging chapters.
b. Check and test alarm&power state once a week, contact the service provider if problem found
c. Users are prohibited to disassemble the device , and don't clean the device with chemical spray, it may cause damage to the sensor. Please contact professional company or service provider for cleaning.
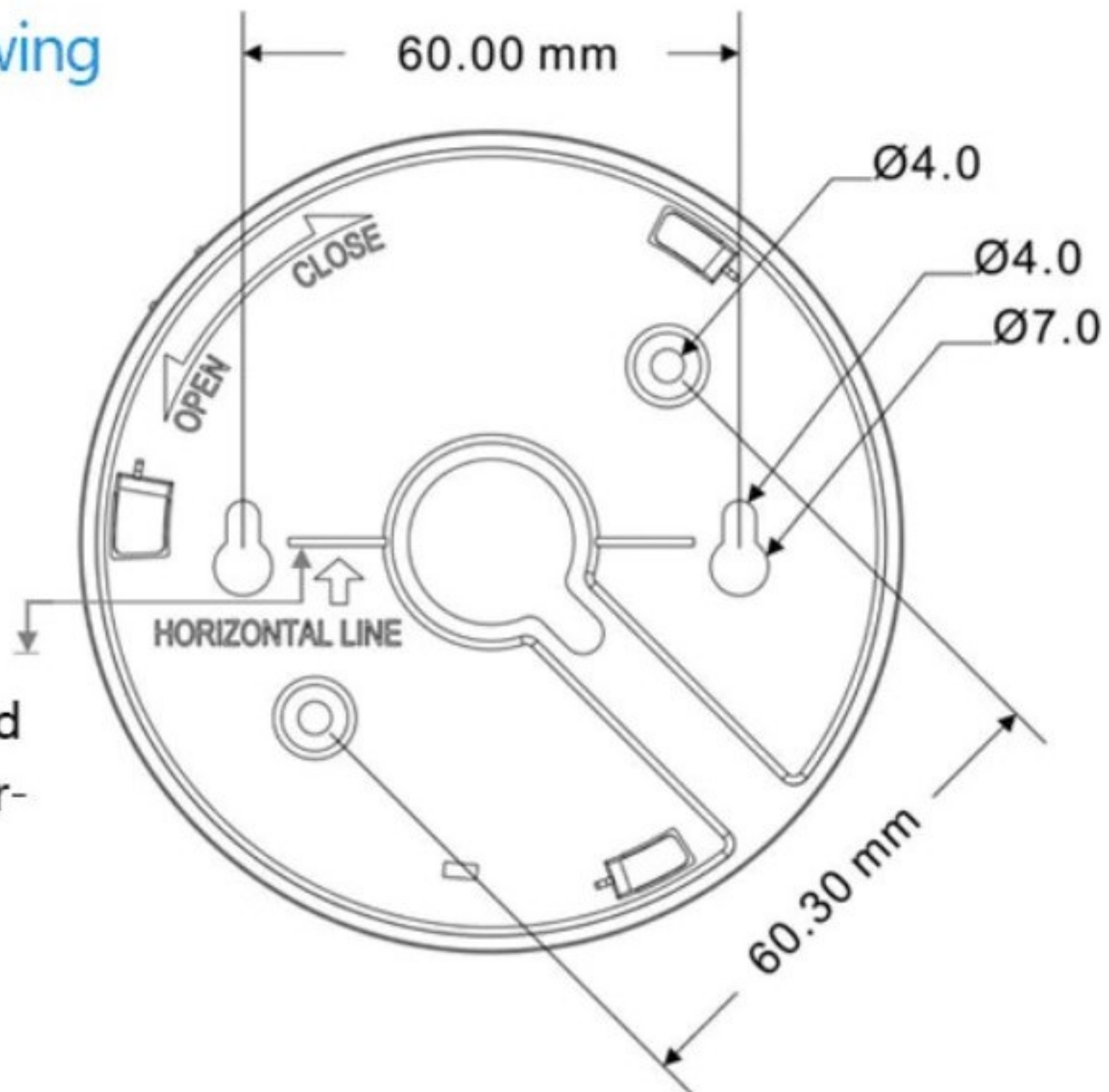
12.Remarks

1. It is recommended to install with screws. If install with double-sided adhesive and cause accident and security incidents, the user should bear their own responsibility
2. The alarm shows the concentration value only as a reference value of the gas detector, not as accurate concentration value.
3. The alarm shows the concentration value only as the temperature inside the alarm; due to the high internal temperature of the alarm, it may be different from the room temperature.
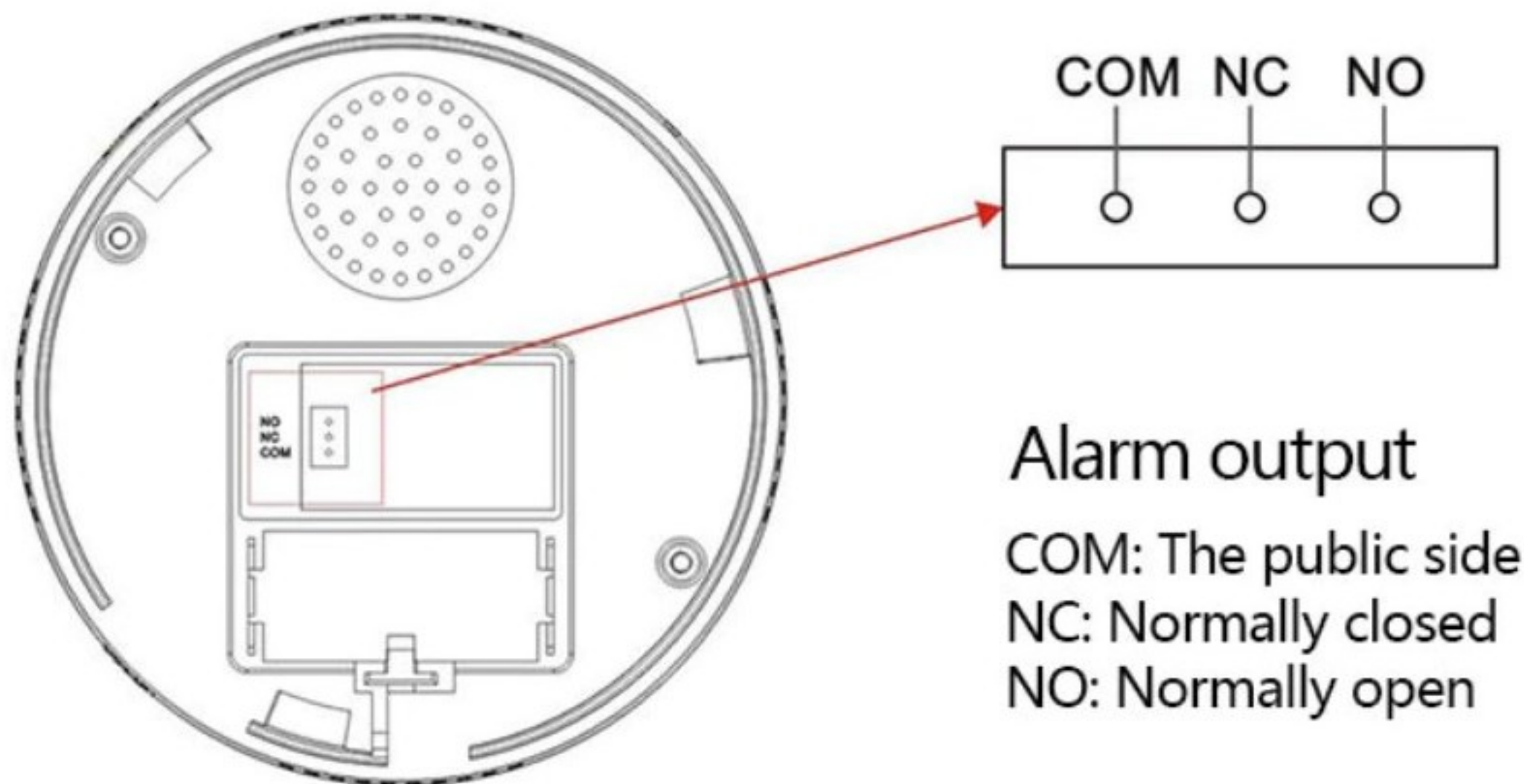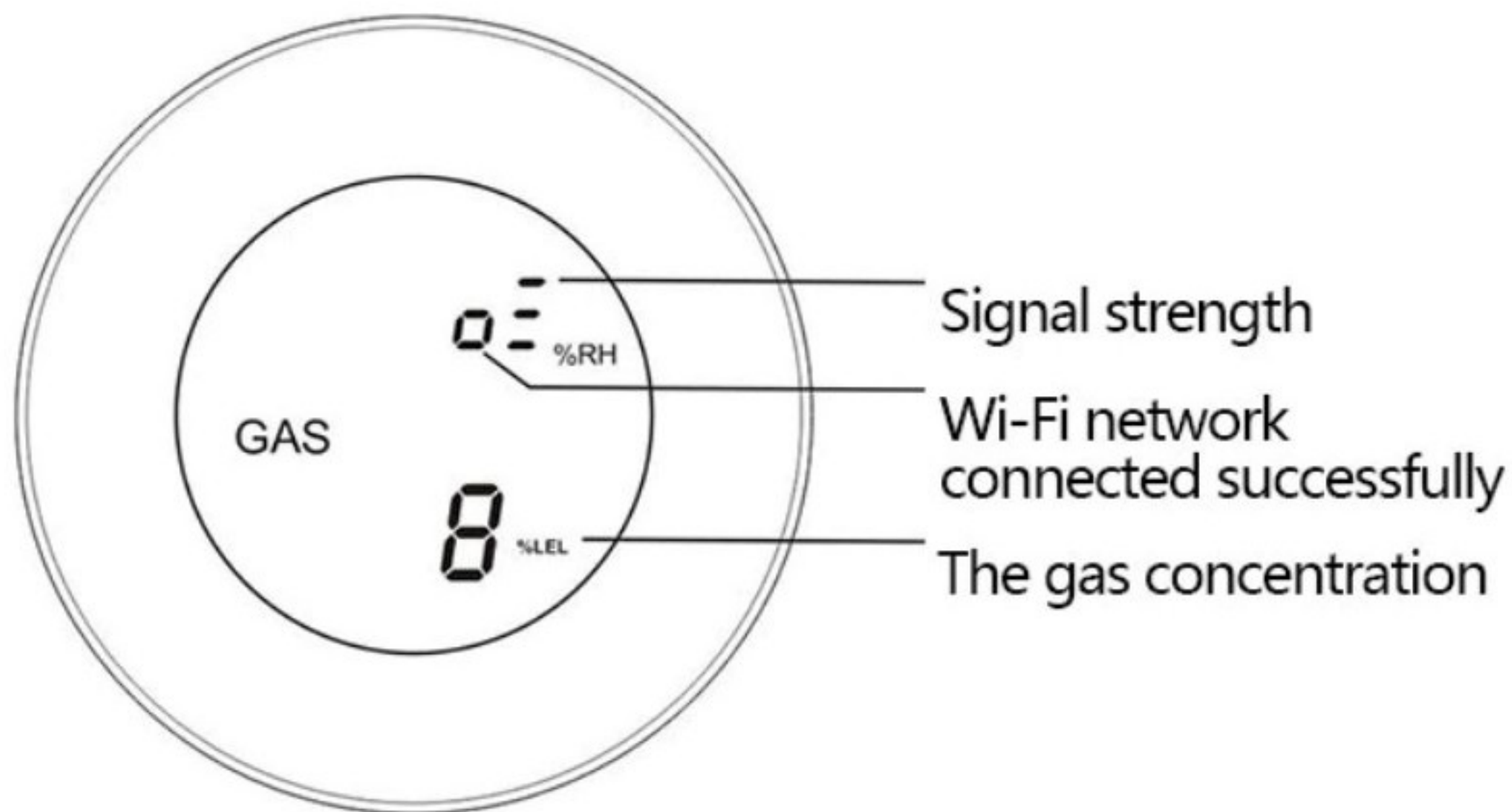
The side

USB 5V jack ⟶ USB 5V

TEST Key

Air Inlet

Mounting plate size drawing

60.00 mm

Ø4.0

Ø4.0

Ø7.0

CLOSE

OPEN

HORIZONTAL LINE

60.30 mm

To ensure the best viewing angle of LCD display, when installing, use the horizontal line as the standard, place and install the mounting plate horizontally

GAS

%RH

%LEL

Signal strength

Wi-Fi network connected successfully

The gas concentration

COM   NC   NO

NO
NC
COM

Alarm output

COM: The public side
NC: Normally closed
NO: Normally open

Technical Parameters

Input voltage: DC5V (micro USB standard interface)
Working current: <150mA
Response time: <30s
Gas sensor lifetime: 3 years
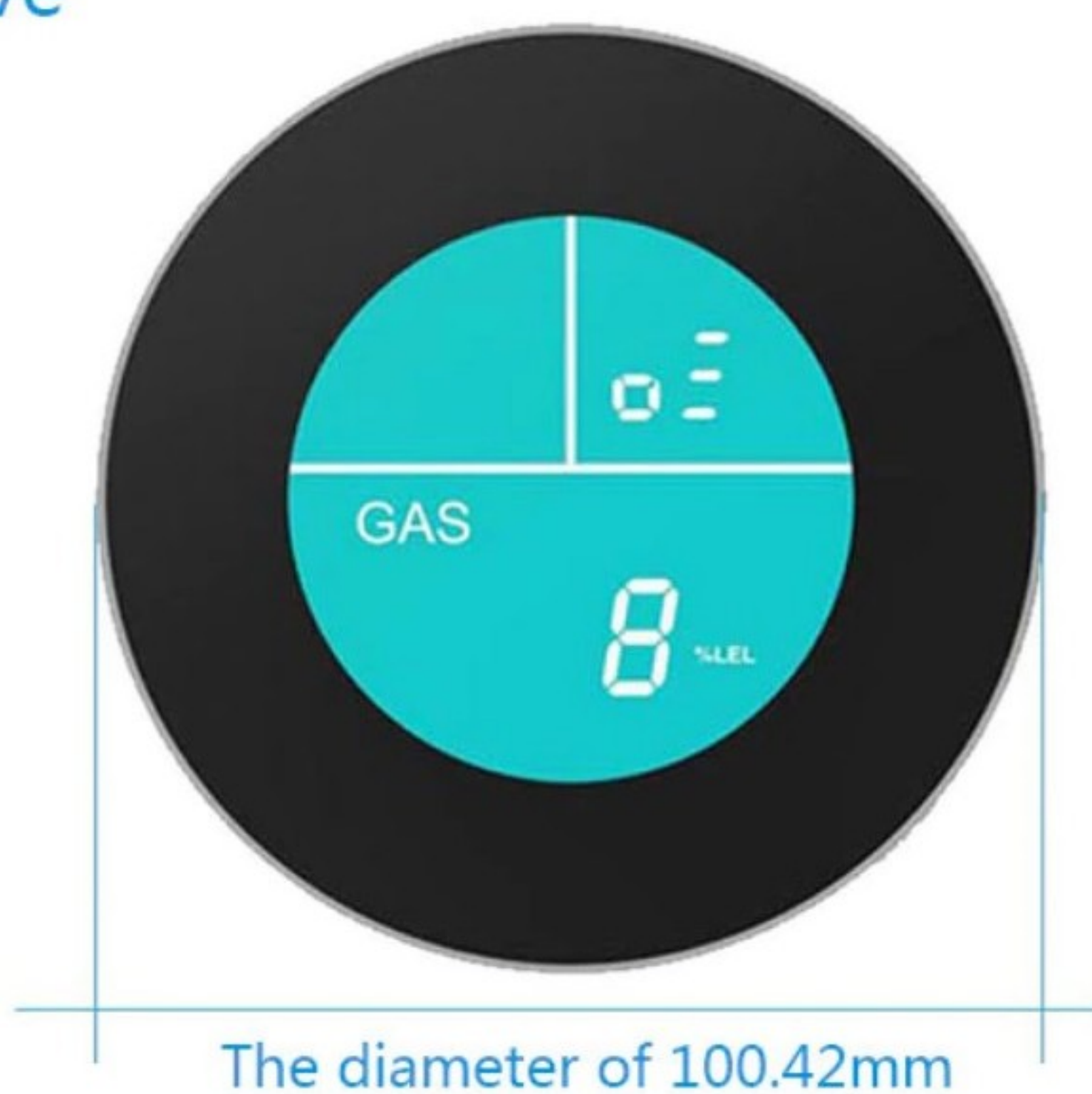Installation type: wall-mounted
Air pressure: 86 ~ 106Kpa
Working temperature: 0 ~ 55 ℃
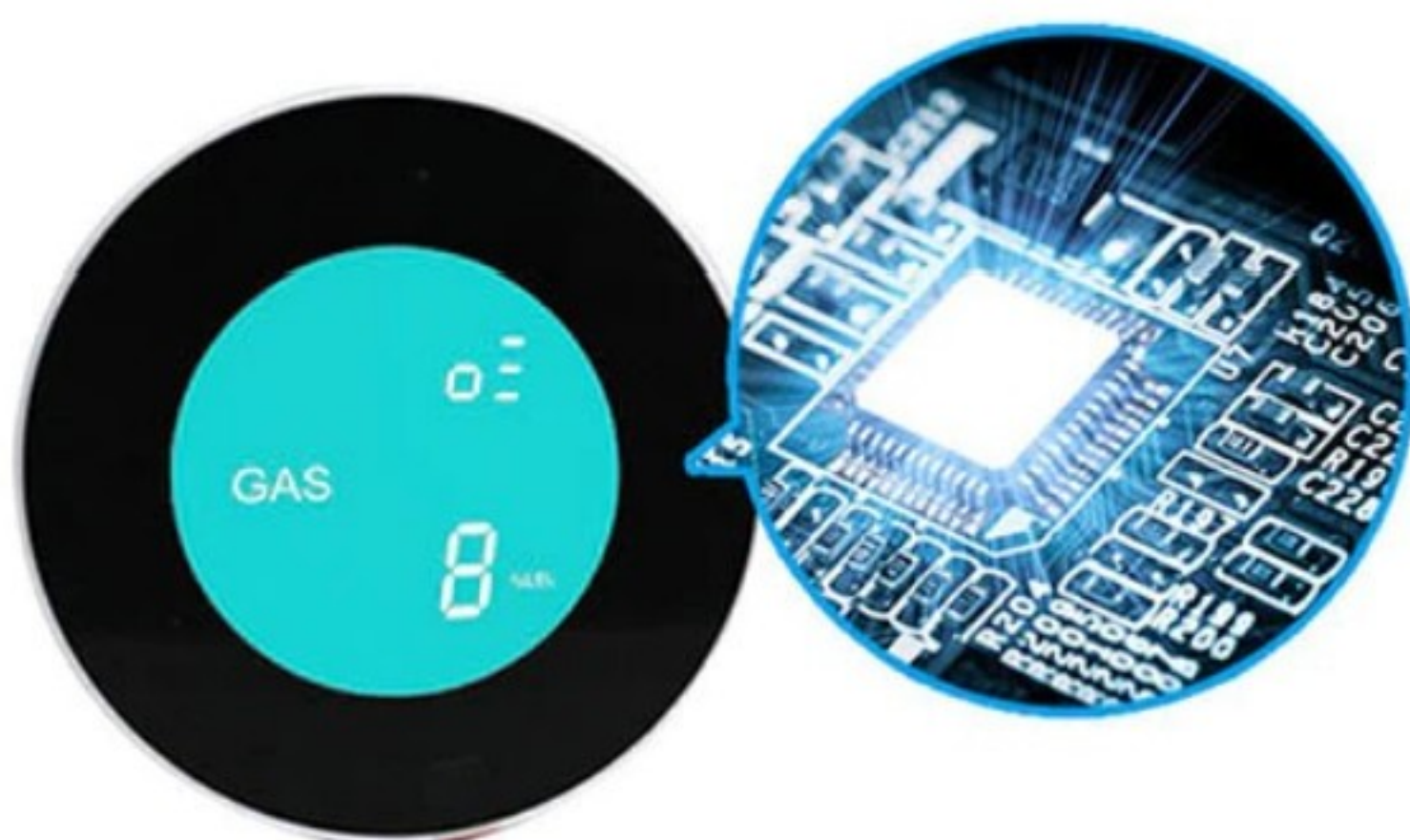Relative humidity: <80% (no freezing)

Positive

GAS

8 %LEL

The diameter of 100.42mm

The side

On the back

NO
NC
COM

34mm

GSM gas alarm comparison diagram

USB power supply

The wire is connected to the alarm for power connection

GAS

8 %LEL

Sensors are more sensitive and stable

False positives omission

GAS

8 %LEL

中心小区三栋五楼
张三家燃气泄漏

Alarm immediately notify the owner by SMS Alarm center platform real-time query, control messages

On-site alarm cannot inform the outside world

① Indicate Wi-Fi network connected successfully. This icon will flash when Wi-Fi is configured and connected successfully. Otherwise the icon will not appear.

② Current gas concentration value in the surrounding environment. Thehigher the value, the higher the gas concentration value. When the gas concentration value reaches 8% level, An alarm will be triggered.
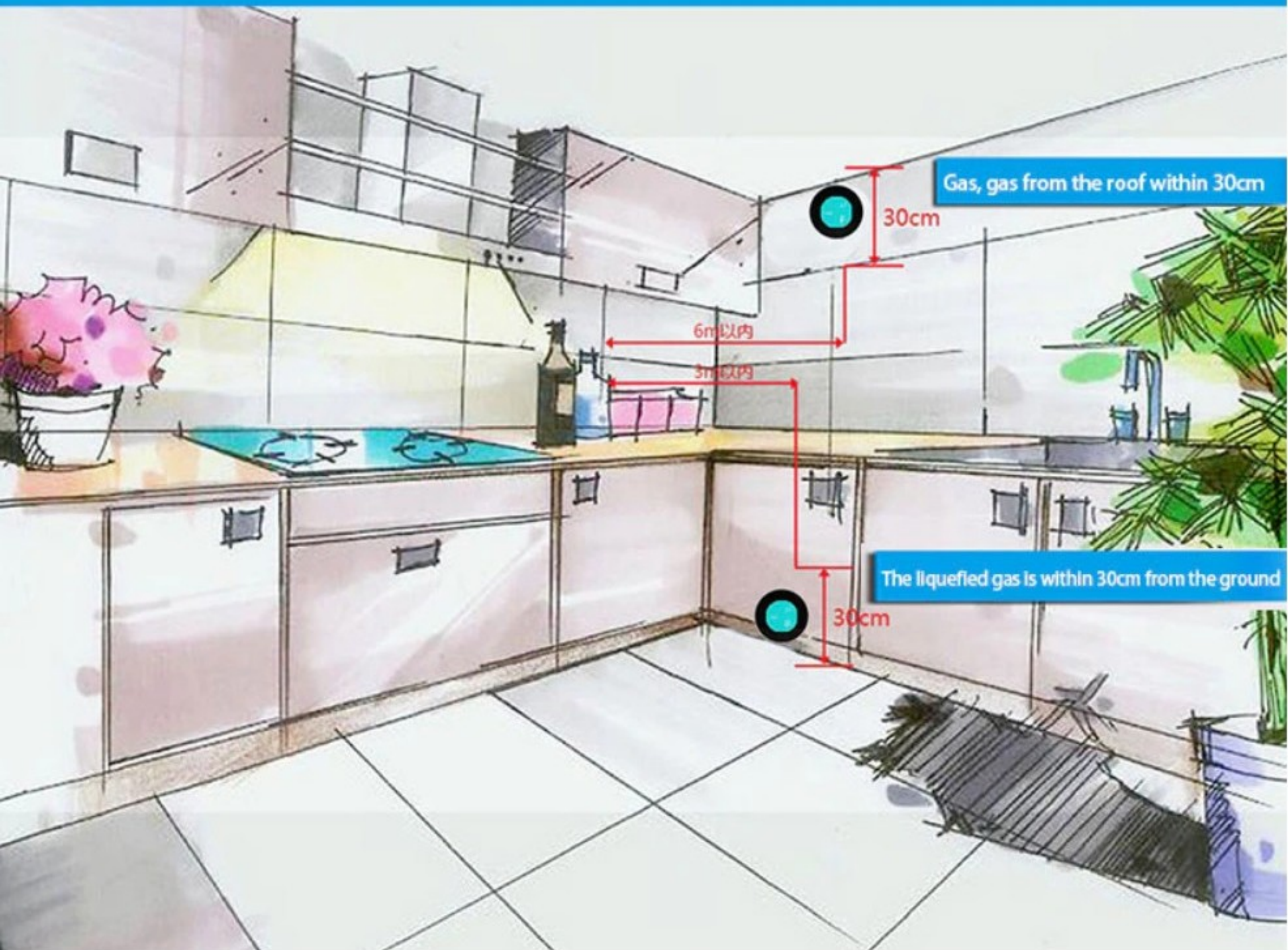
This icon will continuously flash if Wi-Fi is not configured or connected to network.

System preheating countdown time: the detector needs to preheat for 180s after power on. The system enters normal monitoring status after preheating.

The installation

Gas, gas from the roof within 30cm

30cm

6m以内

3m以内

The liquefied gas is within 30cm from the ground

30cm

The product description

Technical Parameters

Input voltage: DC5V (micro USB standard interface)

Working current: <150mA

Response time: <30s

Gas sensor lifetime: 3 years

Installation type: wall-mounted

Air pressure: 86 ~ 106Kpa

Working temperature: 0 ~ 55 ℃

Relative humidity: <80% (no freezing)