

Qoltec[®]



USER MANUAL

SMART NATURAL GAS DETECTOR

(methane, CH₄) with Wi-Fi

52651

Introduction

Thank you for choosing the Qoltec Smart Natural Gas (Methane, CH₄) Detector. To ensure your personal and system safety and to obtain the best performance from the device, please read this manual carefully and thoroughly before installing, using or repairing this device. Please pay particular attention to the warnings and notes contained in the manual.

About the product

The detector is suitable for installation in residential homes. It can continuously monitor the concentration of natural gas indoors. When the concentration reaches the alarm threshold, the device will emit an audible and visual alarm, allowing you to take immediate action to prevent fire, explosion or poisoning.

Figure 1 in the appendix to the manual

- 1 Status indicator
- 2 Battery life indicator
- 3 Button
- 4 Audible alarm vents
- 5 Gas detection ports
- 6 Power cable
- 7 Solenoid valve cable
- 8 Relay cable
- 9 Mounting plate

Installation method

Note: The sensor is intended for indoor use only. Install it in areas where there is a risk of gas leakage or accumulation.

The device should be mounted horizontally at a distance of 1–4 m from the gas appliance and vertically 0.3–1 m from the ceiling.

Users may select the installation location in accordance with the diagram below, adapting it to the actual conditions.

Figure 2 in the appendix to the manual

1. Select a suitable location on the wall for mounting the detector;
2. Secure the mounting plate using wall plugs;
3. Switch on the detector and check that it is working correctly;
4. Install the detector by hanging it on the mounting plate.

Note: If the room is to be painted or renovated, do not install the detector until the work has been completed.

Note:

1. The power cable is fitted with a plug; please connect it directly to a suitable socket.

AVOID Installation:

- Near ventilation inlets/outlets, extractor fans, doors or windows with strong air flow,
- Places with high humidity or exposed to water droplets,
- Directly above sources of heat or steam,
- Above gas appliances,
- Places prone to dirt,
- Areas obstructed by obstacles.

Note: If the room is to be painted or refurbished, please install the detector only after the renovation or painting work has been completed.

Integration with the Tuya or Smart Life app

1. Turn on Wi-Fi (2.4 GHz) and Bluetooth on your phone and connect to your home Wi-Fi network (Note: the device only supports the 2.4 GHz network). If the setup is not completed within two minutes, pairing mode will end automatically. Figure 3 in the appendix to the manual
2. Open the TUYA APP or Smart Life app
3. Tap 'Add Device' in the app interface. Figure 4 in the appendix to the manual
4. The device will automatically search for nearby devices — as shown in the example in the illustration.
5. Tap [Add], and a window will appear as shown in the illustration. Enter your Wi-Fi password and tap [Next].
6. After a few seconds, the device will be added to the app.

7. You can also add the device manually (your phone must have Bluetooth enabled).
8. In the [Add Device] interface, find “Gas Detector (WI-FI)” in the “Sensor” category and click it.
9. Once you have completed the previous steps, another window will appear — enter your Wi-Fi network password and click [Next].
10. Check the information displayed on the screen and click [Confirm the indicator is blinking].
11. Click [Blink Quickly].
12. After a few seconds, the app will detect the gas sensor — click [Next].
13. Once the device has been added, a confirmation screen will appear. You can rename the sensor as required. Figure 5 in the appendix to the manual
14. Once you have finished making changes, click [Done] to complete the device addition process.

Note: Ensure that your home Wi-Fi network is working properly — otherwise, this may affect the sensor’s operation.

If your Wi-Fi network changes, you must remove the device from the app and add it again.

Device operation

1. Connect the detector to the power supply. The green power LED will start flashing, and the device will enter a warm-up mode, which lasts 3 minutes. During this time, the sensor does not detect gas.
2. When the gas concentration reaches the alarm threshold, the device enters alarm mode — the red LED flashes and the detector emits 4 beeps in a repeating cycle until the alarm ends.

What to do in the event of an alarm

1. In the event of an alarm, immediately shut off the gas supply, open the windows, do not use any electrical appliances (including mobile phones) and move to a well-ventilated area.

2. The alarm will switch off automatically when the gas concentration falls below the alarm level. An audible and visual signal indicates that the concentration has exceeded the limit.
3. If the yellow LED is lit continuously and the device emits 3 beeps every 10 seconds, this indicates a fault. The detector is not working properly — please contact the service department.

Wi-Fi alarm

If the yellow LED is lit continuously and the device emits 4 beeps every 10 seconds, do the following:

1. Check that the router is working properly.
2. Ensure that the Wi-Fi network is operating on the 2.4 GHz band.
3. Check that the Wi-Fi signal is strong enough where the device is installed.
4. Check that the network name (SSID) or Wi-Fi password has not been changed.

Self-test

1. To perform a self-test, press the button once. The siren will emit 4 beeps, and the yellow, red, yellow and green LEDs will flash in sequence (1 cycle).
2. If the yellow LED is flashing and the siren emits 3 beeps every 10 seconds, briefly press the button to perform a self-test. The device will then return to normal operating mode.
3. If the yellow LED continues to flash and the siren emits 3 beeps every 10 seconds, this indicates that the sensor has reached the end of its service life
4. Contact the service department or the manufacturer for repair or replacement.

Indicator light statuses

<i>Mode</i>	<i>LED</i>	<i>Lifespan indicator</i>	<i>Audible signal</i>
<i>Heating mode</i>	<i>Green LED flashes</i>	-	-

<i>Normal mode</i>	<i>Green LED is lit continuously</i>	-	-
<i>Self-test mode</i>	<i>The following LEDs flash in sequence: yellow, red, yellow and green (1 cycle)</i>	<i>The yellow LED flashes 4 times (1 cycle)</i>	<i>4 beeps (1 cycle)</i>
<i>Fault mode</i>	<i>Yellow LED remains lit</i>	-	<i>3 beeps every 10 seconds (continuous cycle)</i>
<i>Alarm mode</i>	<i>Red LED flashing continuously</i>	-	<i>4 beeps every 2 seconds (continuous cycle)</i>
<i>Service life</i>		<i>The yellow LED flashes continuously</i>	<i>3 flashes every 10 seconds (continuous cycle)</i>
<i>Wi-Fi connection failure</i>	<i>The yellow LED is lit continuously</i>		<i>4 flashes every 10 seconds (1 cycle)</i>

Technical specifications

Standard	EN 50194-1:2023, RED 2014/53/EU
Power supply / Operating voltage	AC 100V–240V / 50Hz–60Hz
Application	Natural gas (methane, CH ₄)
Sampling method	Free diffusion
Sensor type	Semiconductor
Sensor lifetime	5 years
Alarm mode	Sound + light
Alarm volume	≥85dB (1 metre in front)
Alarm level:	7% LEL ± 3% LEL
Installation	Wall-mounted
Storage temperature	-20°C to 55°C
Operating environment	Temperature: -10 °C to 40 °C Relative humidity: <95% (non-

	condensing) Ambient pressure: 86 kPa ~ 106 kPa
Dimensions	112 mm × 86 mm × 33.5 mm

Troubleshooting

Fault	Possible cause	Solution
The green power LED is not lit	The power cable is not connected properly	Check and reconnect the power cable
	Faulty power LED or circuit failure	Contact your distributor or the manufacturer for repairs
No audible or visual alarm during the self-test	Circuit failure	Contact your distributor or the manufacturer for repair
No response to detected gas	The detector is warming up	Wait until the warm-up is complete
	System failure	Contact your distributor or manufacturer for repairs
	Prolonged power failure	Switch on the power and wait 4 hours
	Gas concentration has not reached the alarm level	Wait until the gas concentration reaches the alarm threshold
Continuous alarm after start-up and during operation	There is a large amount of cigarette smoke, alcohol or volatile organic compounds (e.g. petrol, perfumes, varnishes) in the room	Move to a clean, well-ventilated area and try again
	System failure	Contact your distributor or manufacturer for repairs
Wi-Fi connection failure	Wi-Fi disconnection	Check that the router is working properly. Make sure the Wi-Fi signal is operating on the 2.4 GHz band. Check that the Wi-Fi signal is stable where

		the device is installed. Check that the network name (SSID) or Wi-Fi password has not been changed.
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Note:

In the event of a fault that you cannot resolve yourself, do not dismantle the detector. Contact your distributor or the manufacturer for assistance.

Notes and warnings

1. High levels of cigarette smoke, alcohol or volatile organic compounds such as petrol, perfume, banana oil or paint in the room may cause false alarms;
2. Do not use gases of unknown concentration to test the detector. Gases of very high concentration may damage the sensor, shorten its service life and be harmful to health;
3. Contact your distributor or manufacturer for assistance and use suitable gases at the correct concentration for the annual testing of the detector;
4. The product must not be used or stored in an environment containing corrosive gases (e.g. chlorine);
5. Regularly clean the surface of the detector of dust and oily dirt using a brush or a dry, soft cloth;
6. After prolonged storage or transport, switch on the detector and leave it for at least 24 hours to achieve optimum performance;
7. Under normal operating conditions, the semiconductor sensor has a service life of up to 5 years.

Product maintenance

1. Clean the detector at least once a year, ensuring that the gas inlet is free from dust and oil;
2. After cleaning, reinstall the detector on the mounting plate and check that it is working;

3. Carry out an analogue alarm test every six months to ensure correct operation;
4. Do not expose the detector to prolonged or frequent exposure to high concentrations of gas, as this may reduce the sensor's sensitivity, shorten its service life or damage it;
5. The detector should be connected to a stable power supply;
6. In the event of a fault, contact the distributor or manufacturer to arrange for repairs or to purchase a new unit.

Disposal

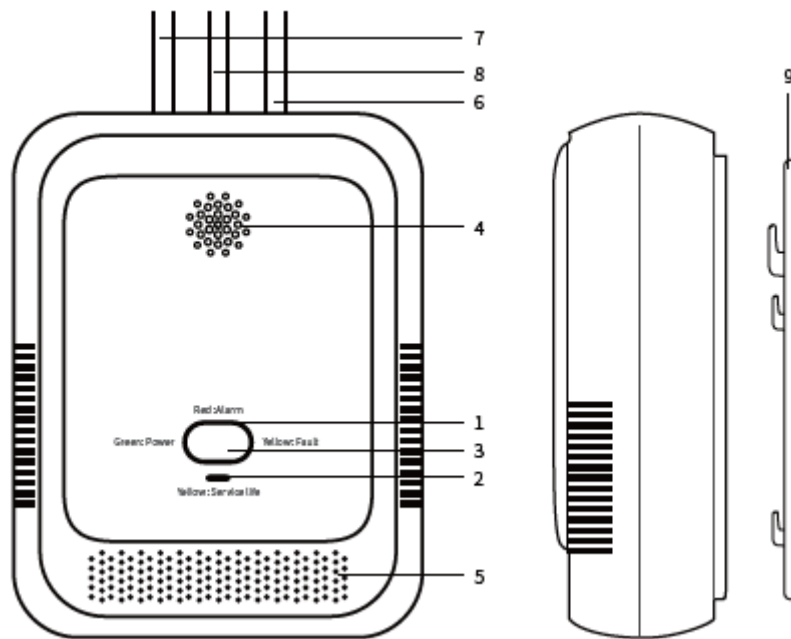
Dispose of in accordance with local regulations regarding electronic waste. Do not throw into fire or incinerate.

Warranty

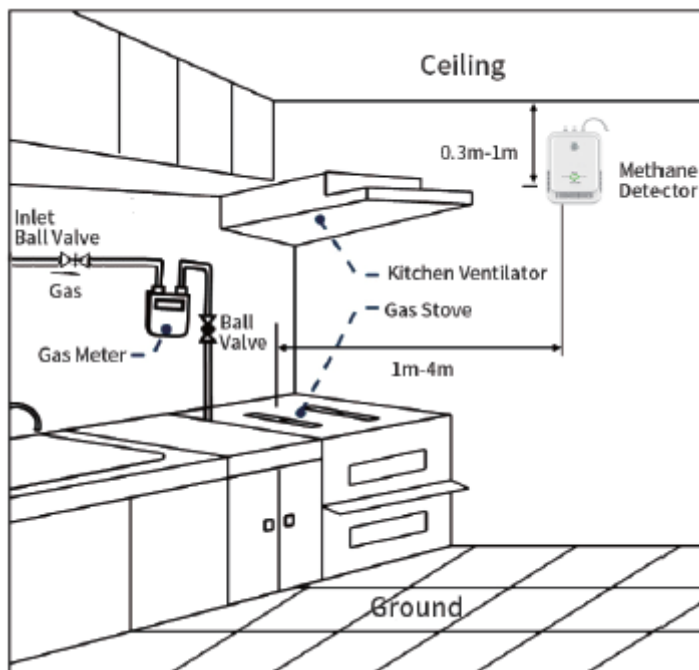
The product is covered by a 24-month manufacturer's warranty from the date of purchase. In the event of any issues, please contact customer service.

Attachment 1

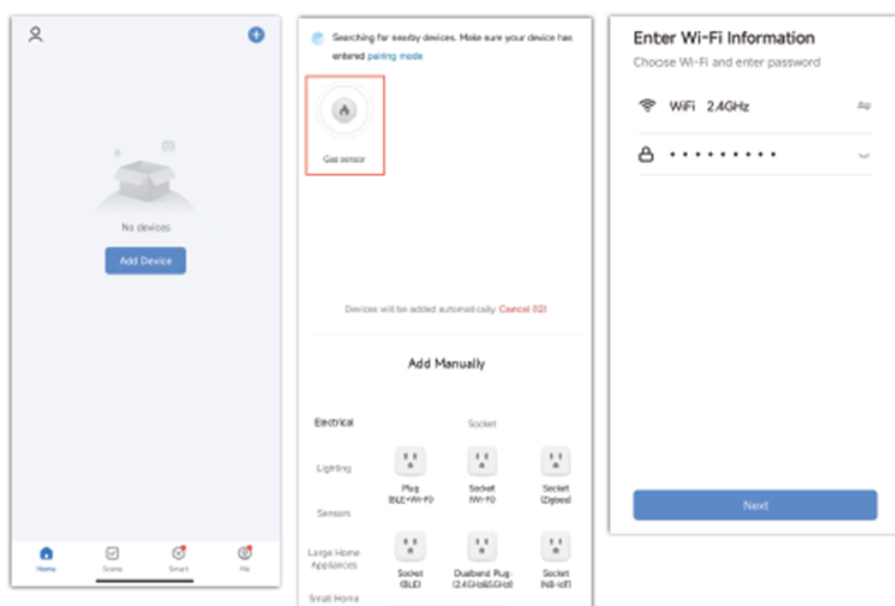
1



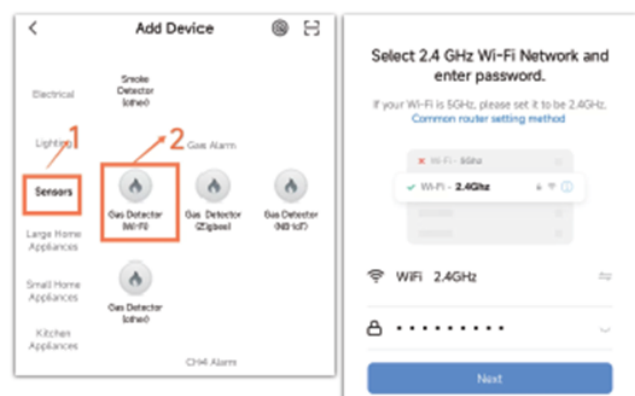
2



3



4



5

