

USER MANUAL

Certified wireless carbon monoxide detector
with Wi-Fi

Model: 52655

Introduction

Thank you for choosing a Qoltec carbon monoxide detector. To ensure your personal and system safety and to achieve 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 this manual.

Product description

This domestic, stand-alone Wi-Fi carbon monoxide detector is designed to detect carbon monoxide leaks, preventing damage caused by its presence. As it is odourless and colourless, carbon monoxide is difficult to detect without specialist equipment. The device utilises a highly stable electrochemical gas sensor, characterised by high stability and minimal sensitivity drift. The detector flashes red and emits an audible alarm when it detects a carbon monoxide leak and the set alarm threshold is exceeded. This device is designed for installation in residential homes where there is a risk of carbon monoxide.

Product features

- Electrochemical sensor
- Temperature compensation
- Low battery voltage alarm
- Automatic sensor fault detection
- Reverse connection and battery leakage protection – enhanced safety

Figure 1 in the appendix

1 – Sound

2 – LCD display

3 – LED

4 – TEST button

Description of LEDs:

Green LED: Power

Red LED: Alarm

Yellow LED: Fault

Safety instructions

1. The device should be installed by a qualified person and may only be mounted on walls.
2. Ensure that the alarm sound can be heard in all bedrooms. If only one carbon monoxide detector is used, it should be fitted as close to the bedrooms as possible, and not in the cellar. The recommended installation height is at least 1.8 m above floor level.
3. The device must be installed out of reach of children. Under no circumstances should children operate the carbon monoxide detector.
4. It is recommended that one detector be installed on each floor in multi-storey buildings. Do not install the device in poorly ventilated areas, such as ceiling voids or the peaks of 'mountain-style' roofs. The device should also not be installed in areas exposed to strong draughts, near air vents, or near open doors or windows.
5. Position the detector 1–3 metres away from all fuel sources and fuel-burning appliances. It is recommended to install it at eye level to better observe the indicator lights: red, green and yellow.
6. Avoid installing the detector in dusty, dirty or greasy areas, such as a kitchen, garage or boiler room. Dust, grease and household chemicals can adversely affect the sensor's performance. Substances that may interfere with the device's operation include: methane, propane, isobutane, isopropanol, ethylene, benzene, toluene, ethyl acetate, hydrogen sulphide, sulphur dioxide, alcohol-based products, paints, thinners, solvents, adhesives, hairsprays, aftershaves, perfumes and certain cleaning products.
7. Avoid installing the detector in damp areas, such as the bathroom. Do not spray aerosols near the device. Do not install the detector in rooms where the temperature falls below -10°C or exceeds 40°C. Do not install it behind curtains or furniture – carbon monoxide must be able to reach the sensor freely for detection to be effective.
8. Installing a carbon monoxide detector does not replace the correct installation, use and maintenance of fuel-burning appliances, including adequate ventilation and flue systems.

WARNING:

“This device is designed to protect people from the serious effects of carbon monoxide exposure. However, it cannot fully protect people with specific health conditions. If in doubt, consult a doctor.”

Installation instructions

Installation procedure:

1. Slide the mounting plate downwards, remove the transparent protective film from the batteries, and then insert the batteries, ensuring they are correctly polarised.
2. Drill two 4 mm diameter holes in the wall, 46 mm apart. Then insert two wall plugs into the holes. Align the holes in the mounting plate (included in the kit) with the wall plugs. Finally, secure it with screws so that the screw heads sit flush against the mounting surface.
3. Press the self-test button to ensure that the device triggers an audible and visual alarm.
4. Align the holes on the back of the device with the mounting plate and fit them together.

Figure 2 in the appendix

Operating the device

LCD	Feature	Description
Figure 3 in the appendix	Preheating the unit	A 120-second countdown will appear on the LCD display, and the green LED will flash every 2 seconds.
Figure 4 in the appendix	Normal mode	The green LED flashes once every 40 seconds.
Figure 5 in the appendix	Alarm mode	The buzzer emits 4 beeps in succession. The red LED flashes. At the same time, the current concentration appears on the LCD display.
Figure 6 in the appendix	Out of range	The carbon monoxide level exceeds the measurement range.
Figure 7 in the appendix	Test mode	The LCD displays '000 ppm', the indicator LEDs flash in sequence: red, green, yellow, red, and the buzzer emits an audible signal.
Figure 8 in the appendix	Sensor error	The yellow LED flashes twice every 40 seconds, and the buzzer emits two beeps. 'Err' appears on the LCD display. Press the

x		self-test button , and the error message will appear immediately.
Figure 9 in the appendix	Low battery voltage	The yellow LED flashes once every 40 seconds and the buzzer emits a single beep. The LCD display shows an empty battery level. The battery must be replaced immediately.
Figure 10 in the appendix	End of service life	The message 'End' appears on the LCD display, the yellow LED remains lit, and the buzzer emits three beeps every 60 seconds. This indicates that the device has reached the end of its service life and can no longer function properly.
Figure 11 in the appendix	Wi-Fi pairing mode	Press and hold the test button for more than 5 seconds to enter this mode. The red LED will start to flash.
Figure 12 in the appendix	Successful Wi-Fi pairing	The product has successfully connected to the Wi-Fi network.

1. When the carbon monoxide concentration exceeds 30 ppm, the current concentration appears on the LCD display.

When the carbon monoxide concentration reaches 50 ppm, the alarm will sound within 60–90 minutes.

When the carbon monoxide concentration reaches 100 ppm, the alarm will sound within 10–40 minutes.

When the carbon monoxide concentration reaches 300 ppm, the alarm will sound within 3 minutes.

Once the alarm has been triggered, it will only switch off once the carbon monoxide concentration has fallen below 30 ppm.

If the carbon monoxide concentration exceeds 999 ppm, the LCD display will show a maximum value of 999 ppm.

2. You can test the product yourself by pressing the test button.

If the device enters test mode correctly when the button is pressed, this indicates that it is functioning properly.

It is recommended that you carry out the test once a week.

3. The device does not have a mute function – this applies to the concentration alarm, fault alarm, low voltage alarm, etc.

Wireless connection instructions

1. Once the power has been switched on correctly (a single beep upon start-up), the device enters pre-heating mode (120-second countdown). Turn on Bluetooth and Wi-Fi on your phone. Press and hold the button for more than 5 seconds – the red LED will start flashing rapidly, indicating that the alarm is in Wi-Fi pairing mode.
2. Open the Tuya Smart or Smart Life app; on the home screen, tap the '+' icon in the top right-hand corner and select 'Add device'.
3. The app will automatically start searching for the alarm. After a moment, the device icon will appear – tap it and wait for the connection to complete.
4. Once connected, the LED will stop flashing and the device will appear in the 'My Home' tab.
5. If Bluetooth is not switched on, or if pairing still fails after switching it on, follow these steps after the second step:

select Sensor → Alarm → Alarm (Wi-Fi) to go to the Wi-Fi configuration interface.

6. Enter the Wi-Fi network name and password, select the slow LED flashing option, then click 'Next'.
7. Select the Wi-Fi hotspot corresponding to the Smart Life alarm, click 'Trust this network' and wait for the connection to complete.
8. Once connected, the LED will stop flashing and the device will appear in the 'My Home' tab.

Note:

In network setup mode, the red LED flashes continuously for up to 1 minute.

If the setup fails, re-enter setup mode and repeat the steps above.

Once the power has been correctly switched on, the device can only enter pairing mode within 2 hours. Once this time has elapsed, you must disconnect and reconnect the power supply.

It is recommended that, after removing the battery, you press the test button and then reinsert the battery. Once the device has started up correctly, an audible beep will sound, confirming that it is ready to enter pairing mode.

If wireless pairing fails:

1. Ensure that your Wi-Fi network is operating on the 2.4 GHz band, is functioning correctly, and that the device is within its range.
2. If the problem persists, go to ‘Me → FAQ & Feedback’ in the app and check the available solutions.
3. If the problem is not resolved, please contact your distributor or the manufacturer directly.

What to do in the event of an alarm

NOTE:

If an alarm is triggered, leave the hazardous room immediately – this will help prevent carbon monoxide poisoning. Call the relevant emergency services to locate and remove the source of the CO emission.

When the carbon monoxide concentration exceeds the alarm threshold, the detector will automatically switch to continuous alarm mode. Take the following steps:

1. Immediately turn off the gas supply valve.
2. Open the windows immediately and ensure the room is well ventilated.
3. Notify the relevant services and specialists so that they can deal with the situation immediately. If, after checking, it turns out that the alarm was a false alarm, the user should check whether the detector has been installed in the correct location.
4. Never ignore any alarm. If in doubt as to the cause of the alarm, assume that it has been triggered by a dangerous concentration of carbon monoxide and leave the building immediately.

Technical specifications

Feature	Value
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Sensor type:	Electrochemical
Frequency:	2.412–2.472 GHz
Version:	802.11 b/g/n
Power supply:	DC 3V
Product lifespan:	10 years
Battery:	CR123A Li 3V
Battery life:	5 years (replaceable)
RF (radio) power:	11b: 16 dBm 11g: 15 dBm 11n: 14 dBm
Average current consumption in standby mode:	<20 μ A
Current consumption in alarm mode:	<45 mA
Alarm sound level:	$\geq$ 85 dB (at a distance of 3 m)
Communication:	Wi-Fi
Installation:	using screws or 3M adhesive tape
Standard:	EN 50291-1:2018+AC:2021
Operating temperature range:	-10°C to 40°C
Operating humidity:	$\leq$ 95% RH
Dimensions:	86.5 mm $\times$ 86.5 mm $\times$ 30.5 mm

Alarm mode:

At a CO concentration of 30 ppm – no alarm for 120 minutes

At a CO concentration of 50 ppm – alarm within 60–90 minutes

At a CO concentration of 100 ppm – alarm within 10–40 minutes

At a CO concentration of 300 ppm – alarm within 3 minutes

Troubleshooting

Fault	Possible cause	Solution
When the yellow LED flashes once every 40 seconds and the buzzer emits a single beep	Low battery voltage	Replace the battery
The yellow battery life indicator LED is lit continuously and the buzzer emits three beeps every 60 seconds	The device has reached the end of its service life	Replace the device

The yellow LED flashes twice every 40 seconds and the buzzer emits two beeps	Sensor fault	Please contact your retailer.
No response from the detector when the test button is pressed	Battery fault	Check that the battery has been fitted correctly; if so please contact your dealer.

Maintenance

Once the detector has been installed and activated, press the test button once a week to check that it is working properly.

Cleaning the smoke detector: clean the detector at least once a year to remove any accumulated dust and keep it in good working order.

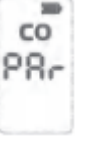
Disposal

1. Dispose of in accordance with local regulations on electronic waste.
2. Do not throw into a fire or burn.

Warranty

This product is covered by a 24-month manufacturer's warranty from the date of purchase. If you experience any problems, please contact customer services.

Attachement

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