

Qoltec[®]



USER MANUAL

SMART CARBON MONOXIDE (CO) DETECTOR

Model: 52576

Introduction

Thank you for choosing the Qoltec Smart Carbon Monoxide (CO) 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.

About the product

The detector is suitable for installation in residential properties. It can continuously monitor carbon monoxide concentrations indoors. When the concentration reaches the alarm threshold, the device will emit an audible and visual alarm, allowing you to take swift 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. Detection ports
6. Power cable
7. Solenoid valve cable
8. Relay cable
9. Mounting plate

Safety information

Note: The device should be installed by a competent person, in accordance with the operating instructions and the requirements regarding the location and method of installation.

- 1 Please read the operating instructions before installation and before using the device.
- 2 The device must only be installed in the location and in the manner specified by the manufacturer.
- 3 Carbon monoxide (CO) is a colourless, odourless and highly toxic gas. Its presence cannot be detected by sight or smell. The detector must be fitted

in a suitable part of the room in accordance with the requirements set out in the product manual.

- 4 Do not install the device in areas exposed to direct contact with water vapour, grease, dust, strong draughts, chemicals or temperatures outside the device's operating range.
- 5 Do not block the ventilation openings or the sensor. Do not paint or cover the device with stickers.
- 6 Do not dismantle, modify or attempt to repair the device yourself.
- 7 Do not test the sensor using a lighter, torch, open flame or an uncontrolled gas source.
- 8 Regularly check that the device is working correctly using the TEST function, if the model is equipped with one.
- 9 For battery-powered devices, replace the batteries in accordance with the instructions and do not ignore low-battery warnings.
- 10 Once the sensor has reached the service life specified by the manufacturer, the device must be replaced.
- 11 A CO detector is no substitute for the correct installation, operation and maintenance of fuel-burning appliances, nor for proper room ventilation.

Safety warning:

The gas detector is an additional safety feature and does not replace the correct installation, inspection and maintenance of the gas system.

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

Note: The detector is intended for indoor use only. It should be installed in areas where gas may accumulate. The detector should be mounted horizontally at a distance of 0.3 m to 1 m from the ceiling. Users can visit to select an installation location in accordance with the diagram below, adapting it to the actual conditions.

1. Select a suitable spot 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. Fit the detector by hanging it on the mounting plate.

Figure 2 in the appendix to the manual

Note:

1. The power cable is fitted with a plug; please connect it directly to a suitable socket.
2. The solenoid valve is polarised — the red wire is the positive terminal, the black wire is the negative terminal; connect them according to the markings.
3. The relay is non-polarised and does not require polarity to be distinguished when connecting — it can be connected directly.
4. If the product features both a solenoid valve and a relay, please take the above points into account. Otherwise, they may be disregarded.

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 water vapour,
- Above gas appliances,
- Places prone to dirt accumulation,
- Areas obstructed by obstacles.

Please note: If the room is to be painted or refurbished, please do not install the detector until the renovation or painting work has been completed.

User manual

1. Connect the detector to a power source. The green power LED will flash during the 3-minute warm-up period, during which gas detection is disabled. Once the warm-up is complete, the green LED will remain lit and the detector will enter normal detection mode.
2. When the concentration reaches the alarm threshold, the red LED flashes and the detector emits 4 repeated beeps.

3. 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.
4. The alarm will switch off automatically once the level falls below the safe limit. An audible and visual signal indicates that the concentration has exceeded the limit.
5. If the yellow LED remains lit and the siren sounds every 10 seconds:
 - 3 beeps — the carbon monoxide sensor is faulty.

In this case, the sensor is not working properly. Contact the service centre or your distributor.

6. To perform a self-test, press the button once. The siren will sound 4 beeps, and the yellow, red, yellow and green LEDs will flash in sequence (1 cycle). The detector will return to normal monitoring. If the self-test fails, contact the service centre or the manufacturer.
 - If the yellow LED continues to flash and the siren emits 3 beeps every 10 seconds, this indicates that the CO sensor has reached the end of its service life.

Contact the service centre or the manufacturer for repair or replacement.

7. 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 LEDs flash in sequence: yellow, red, yellow and green (1 cycle)</i>	-	<i>4 beeps (1 cycle)</i>

<i>Fault mode</i>	<i>The yellow LED remains lit</i>	-	<i>CO: 3 beeps every 10 seconds (continuous cycle)</i>
<i>Alarm mode</i>	<i>Red LED flashes continuously</i>	-	<i>CO: 4 beeps every 2 seconds (continuous cycle)</i>
<i>Operating period</i>	<i>Yellow LED flashes continuously</i>		<i>3 flashes every 10 seconds (continuous cycle)</i>

What to do in the event of a CO alarm

1. Treat the alarm as a potential real danger;
2. If you can do so quickly and safely, open doors and windows,
3. If it is safe to do so, switch off any fuel-burning appliances,
4. Leave the building or room and go out into the fresh air,
5. Make sure that everyone has left the affected area,
6. Contact the relevant emergency services,
7. Anyone showing symptoms of poisoning, such as headache, dizziness, nausea, weakness, confusion or loss of consciousness, should seek medical assistance immediately,
8. Do not return to the room until the source of the problem has been identified and removed.

Technical specifications

Standard	EN 50291-1:2018
Operating voltage	AC 220V–240V / 50Hz–60Hz
Application	Carbon monoxide (CO)
Sampling method	Free diffusion
Sensor type	Electrochemical (CO)
Sensor service life	3 years (typical CO value)
Alarm volume	70±30ppm (CO)
Alarm mode	Audible + visual

Alarm sound level	≥85 dB (1 metre in front)
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 86 kPa~ 108 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 correctly	Check and reconnect the power cable correctly
	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 repairs
No response to detected gas	The detector is warming up	Wait for the warm-up to complete
	System failure	Contact your distributor or the manufacturer for repairs
	The power cut lasted too long	Switch on the power and wait at least 4 hours
	The gas concentration has not reached the alarm threshold	Wait until the gas concentration reaches the alarm threshold
Continuously alarming after switched on and time-lapse	Presence of large amounts of cigarette smoke, alcohol or volatile organic compounds (e.g. petrol, perfume, banana oil, paint)	Move to a clean, well-ventilated area and try again
	System failure	Contact your distributor or the manufacturer for repairs

Notes: In the event of faults that cannot be rectified by yourself, do not dismantle the detector. Contact your distributor or the manufacturer for assistance.

Notes:

1. High levels of cigarette smoke, alcohol or volatile organic compounds such as petrol, perfume, banana oil or paint in the room may cause the detector to trigger false alarms;
2. Do not use gases of unknown concentration to test the detector. Gases with very high concentrations may damage the sensor, shorten its service life and be harmful to health;
3. Contact your distributor or the 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 to remove 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, whilst the electrochemical sensor has a service life of up to 3 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, refit the detector onto the mounting plate and check that it is working properly;
3. Carry out an analogue alarm test every six months to ensure it is working correctly;

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 your distributor or the manufacturer to arrange for repairs or to purchase a new unit.

Disposal

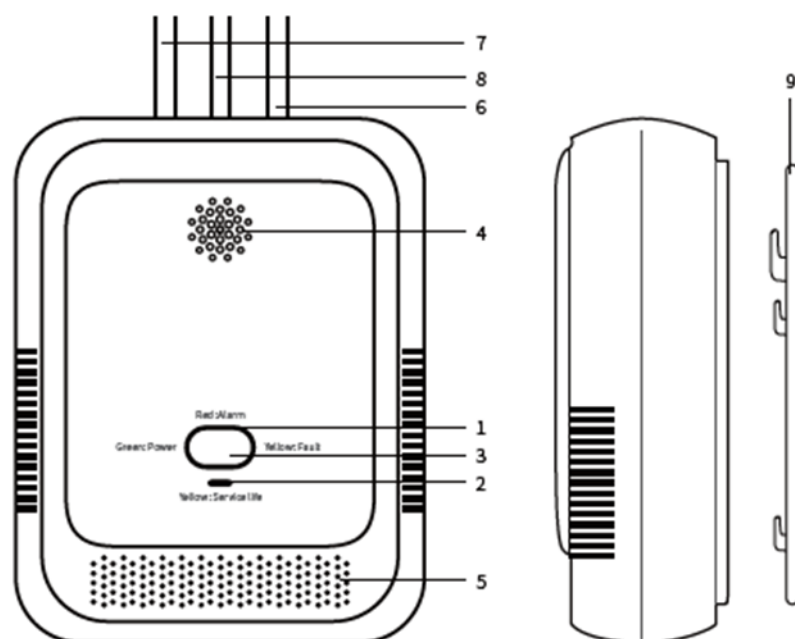
Dispose of in accordance with local regulations on electronic waste. Do not throw into a fire or burn.

Warranty

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

Attachment 1

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