

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 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 carbon monoxide levels 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. Detection ports
6. Power cable
7. Solenoid valve cable
8. Relay cable
9. Mounting plate

Note: If the product has a solenoid valve and relay function, please take the following information into account. If not, you may disregard it.

Installation method

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

1. Select a suitable location on the wall for mounting the detector;
2. Use wall plugs to secure the mounting plate;
3. Switch on the detector and check that it is working correctly;

4. Install 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 has both a solenoid valve and a relay, please take the above points into account. Otherwise, they can 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 steam,
- Above gas appliances,
- Places prone to dirt,
- Areas obstructed by obstacles.

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 sensor to the power supply. The green power LED will flash during the 3-minute warm-up period, during which gas detection is disabled. After the warm-up, the green LED will remain lit and the detector will switch to 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 devices (including mobile phones) and move to a well-ventilated area.
4. The alarm will switch off automatically when the level drops below the safe limit. An audible and visual signal indicates that the concentration has exceeded the limit.
5. If the yellow LED is lit continuously 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 department or your distributor.

6. 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). 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 department 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 flashing</i>	-	-
<i>Normal mode</i>	<i>Green LED is lit continuously</i>	-	-
<i>Self-test mode</i>	<i>Flashing in sequence: yellow, red, yellow and green (1 cycle)</i>	-	<i>4 beeps (1 cycle)</i>
<i>Fault mode</i>	<i>Yellow LED remains lit</i>	-	<i>CO: 3 beeps every 10 seconds (continuous)</i>

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

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 lifetime	3 years (typical CO value)
Alarm volume	70±30ppm (CO)
Alarm mode	Sound + light
Alarm sound level	≥85dB (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 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 for the warm-up to complete
	System failure	Contact your distributor or manufacturer for repairs
	The power cut lasted too long	Switch on the power and wait at least 4 hours
	Gas concentration has not reached the alarm level	Wait until the gas concentration reaches the alarm threshold
Continuously alarming after turning 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 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 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, and the electrochemical sensor 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, 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 sensitivity of the sensor, 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

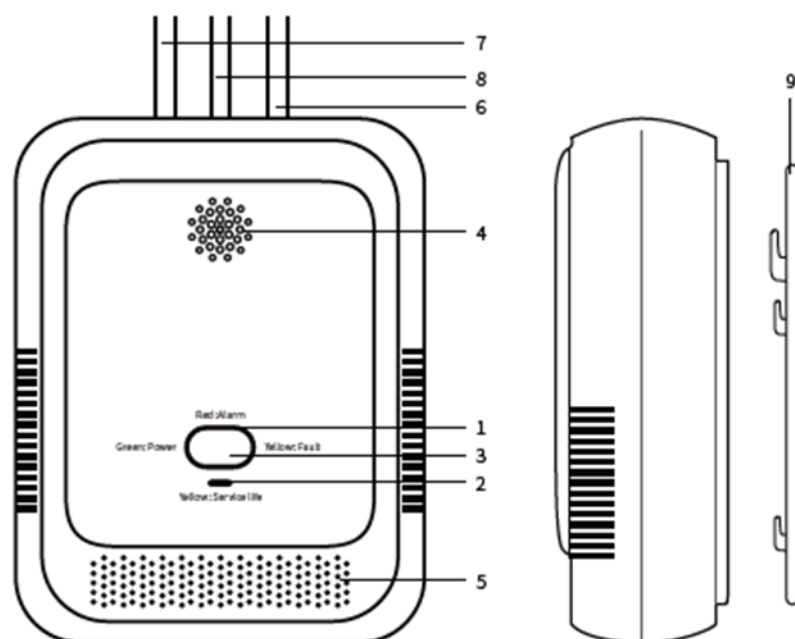
Dispose of in accordance with local regulations regarding electronic waste. Do not throw into a fire or incinerate.

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

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