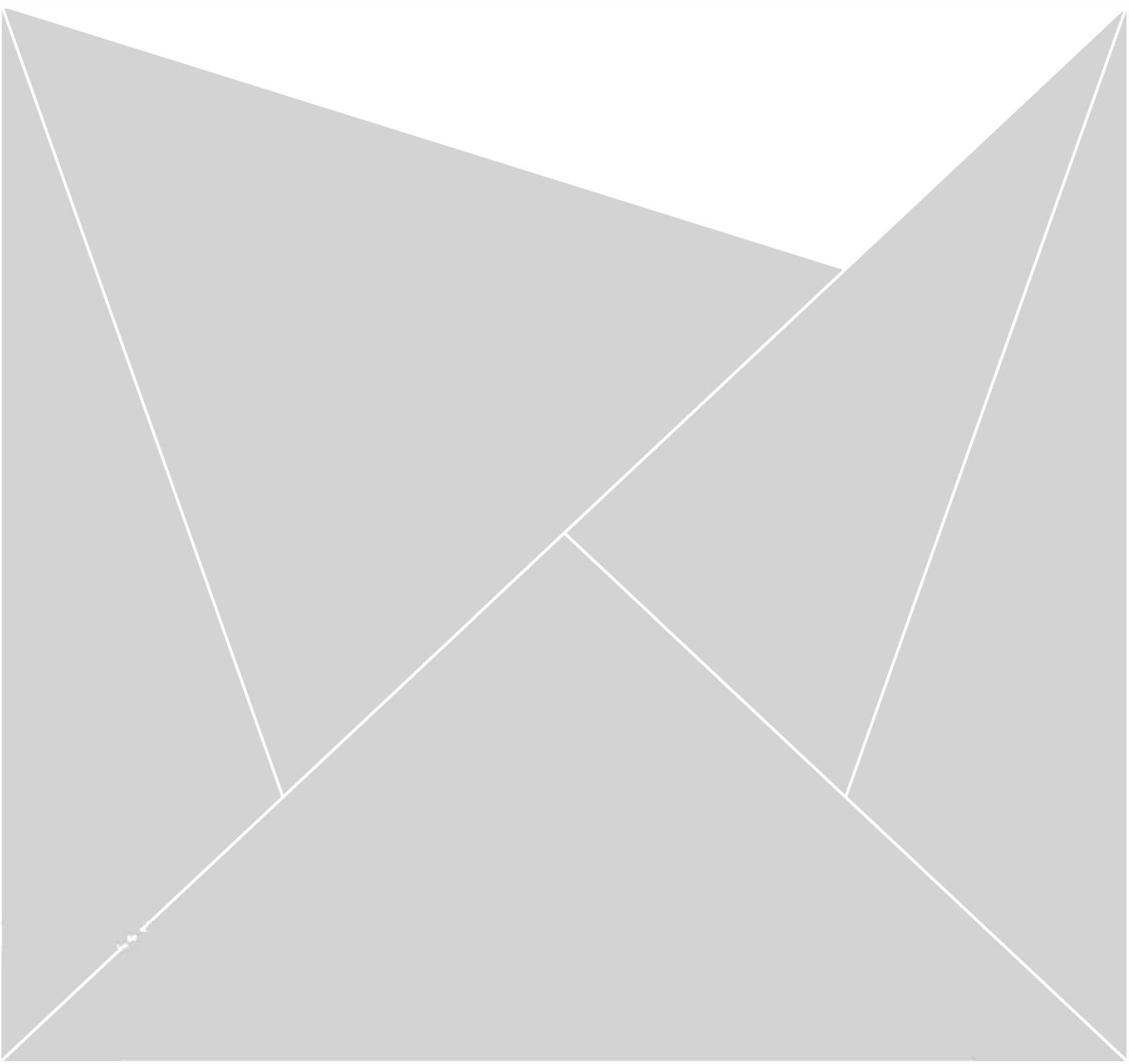


Qoltec®



INSTRUCTION MANUAL

Carbon monoxide detector

52577

EN

INTRODUCTION

Thank you for choosing the Qoltec carbon monoxide detector. To ensure your personal and system safety and to obtain the best performance from your unit, please read this manual carefully and thoroughly before installing, using or repairing this unit. Pay particular attention to the warnings and cautions in the manual.

PRODUCT DESCRIPTION

The home standalone carbon monoxide detector is used to detect carbon monoxide leaks, preventing damage caused by its presence. Due to its lack of smell and colour, it is difficult to detect without specialised equipment. The device uses a highly stable electrochemical gas sensor, which has high stability and minimal drift in sensitivity.

The detector flashes red and emits an audible alarm when it detects a carbon monoxide leak and the set alarm threshold is exceeded. This unit is designed for installation in residential homes where there is a risk of carbon monoxide.

PRODUCT FEATURES

- | | |
|--|-------------------|
| ▪ Electrochemical sensor | 1 - Sound |
| ▪ Temperature compensation | 2 - LCD display |
| ▪ Low battery alarm | 3 - LED indicator |
| ▪ Automatic sensor fault detection | 4 - TEST button |
| ▪ Protection against reverse connection and battery leakage - increased safety | |

Illustration 1 in the appendix

SAFETY INSTRUCTIONS

1. The unit should be installed by a qualified person and must only be mounted on walls.
2. Ensure that the alarm sound can be heard in all sleeping rooms. If only one carbon monoxide detector is used, it should be mounted as close to the bedroom as possible and not in the basement. The recommended mounting height is at least 1.8 m above floor level.
3. The unit should be installed out of the reach of children. Under no circumstances should children be allowed to 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 unit in poorly ventilated areas such as vaulted ceilings or "mountain" type roof tops. Also, do not install the unit in areas subject to strong gusts of wind, close to vents, open doors or windows.
5. Place the detector 1-3 metres away from all fuel sources and fuel-burning appliances. It is recommended to mount at eye level to better observe the red, green and yellow light indicators.
6. Avoid mounting the detector in dusty, dirty or greasy areas such as the kitchen, garage or boiler room. Dust, grease and household chemicals can adversely affect sensor performance. Substances that can interfere with the unit include: methane, propane, isobutane, isopropanol, ethylene, benzene, toluene, ethyl acetate, hydrogen sulphide, sulphur dioxide, alcohol-based products, paints, thinners, solvents, adhesives, hairspray, aftershave, perfumes and some cleaning products.
7. Avoid mounting the detector in damp areas such as the bathroom. Do not spray aerosols near the unit. Do not install the detector in rooms where the temperature drops below -10°C or exceeds 40°C. Do not mount it behind curtains or furniture - carbon monoxide gas must freely reach the detector for detection to be effective.
8. The installation of a carbon monoxide detector is not a substitute for the proper installation, use and maintenance of fuel-burning appliances, including proper ventilation and flue systems.

INSTALLATION INSTRUCTIONS

Installation process:

Illustration 2 in the appendix

1. Slide the mounting plate down, remove the transparent protective film from the batteries and then insert the batteries, noting their polarity.
2. Drill two 4 mm diameter holes 46 mm apart in the wall. Then insert two wall plugs into the holes. Align the holes of the mounting plate (supplied) with the studs in the wall. Finally, screw it in place with screws so that the screw heads fit tightly against the mounting surface.
3. Press the self-test button to ensure that the unit triggers an audible and light alarm.
4. Align the holes on the back of the unit with the mounting plate and mount it.

WORKING WITH THE UNIT

LCD	Feature	Description
Figure 3	Pre-heating the appliance	The LCD display will show a 120-second countdown and the green LED will flash every 2 seconds.
Figure 4	Normal mode	The green LED flashes once every 40 seconds.
Figure 5	Alarm mode	The buzzer sounds 4 beeps in succession. The red LED flashes. At the same time, the LCD display shows the current concentration.
Figure 6	Out of range	The carbon monoxide level exceeds the measuring range.
Figure 7	Test mode	The LCD displays "000 ppm", the indicator LEDs flash red, green, yellow, red in sequence and the buzzer sounds.
Figure 8	Sensor fault	The yellow LED flashes twice every 40 seconds and the buzzer sounds two beeps. "Err" appears on the LCD display. Press the self-test button and the error message appears immediately.
Figure 9	Low battery voltage	The yellow LED flashes once every 40 seconds and the buzzer beeps once. The LCD display shows an empty battery level. Replace the battery immediately.
Figure 10	End of device life	The LCD display shows "End", the yellow LED lights up continuously and the buzzer sounds 3 beeps every 60 seconds. This indicates that the appliance has reached the end of its service life and can no longer operate properly.

When the concentration of carbon monoxide exceeds 30 ppm, the LCD display shows the current concentration.

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 concentration of carbon monoxide reaches 300 ppm - the alarm will sound within 3 minutes.

Once the alarm has been triggered, it will only go off when the carbon monoxide concentration falls below 30 ppm.

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

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

The correct entry into test mode when the button is pressed indicates that the unit is operating correctly.

It is recommended to carry out the test once a week.

The unit does not have a mute function - this applies to concentration alarm, fault alarm, low voltage alarm, etc.

ACTION IN THE EVENT OF AN ALARM

CAUTION :

If the alarm is triggered, leave the dangerous room immediately - this will help prevent carbon monoxide poisoning. Call the appropriate emergency services to locate and remove the source of the CO.

When the concentration of carbon monoxide exceeds the alarm value, the detector will automatically go into continuous alarm mode. Take the following steps:

1. Turn off the gas system valve immediately.
2. Open the windows immediately and ensure that the room is ventilated.
3. Inform the relevant services and specialists to deal with the situation immediately. If, after checking, it turns out that the alarm was false, the user should check that the detector has been installed in the right place.
4. Never ignore any alarm. If there is any doubt as to the cause of the alarm, it should be assumed that it was triggered by a dangerous concentration of carbon monoxide and the building should be left immediately.

TECHNICAL SPECIFICATIONS

Standard: EN 50291-1:2018+AC:2021

Power supply: DC 3V

Product lifetime: 10 years

Battery life: 10 years (non-replaceable)

Sensor type: Electrochemical

Current consumption in alarm mode: <45 mA

Average standby current consumption: <20 μ A

Operating temperature range: -10°C ~ 40°C

Operating humidity: $\leq$ 95% RH

Alarm sound level: $\geq$ 85 dB (from a distance of 3 m)

Alarm mode:

At CO 30 ppm - no alarm within 120 minutes

At 50 ppm CO concentration - alarm within 60-90 minutes

With a CO concentration of 100 ppm - alarm within 10-40 minutes

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

Mounting: with screws or 3M adhesive tape

Dimensions: 86.5 mm $\times$ 86.5 mm $\times$ 30.5 mm

TROUBLESHOOTING

Fault	Possible cause	Solution
When the yellow LED flashes once every 40 seconds and the buzzer beeps once	Low battery voltage	Replace the battery
The yellow life indicator LED lights up continuously and the buzzer beeps three times every 60 seconds	Device has reached the end of its service life	Replace the unit

Yellow LED flashes twice every 40 seconds and buzzer sounds two beeps	Sensor fault	Please contact your dealer.
No response from the detector after pressing the test button	Battery fault	Check if the battery has been installed correctly, if so Please contact your dealer.

MAINTENANCE

After installing and commissioning the detector, press the test button once a week to test its operation.

Cleaning the smoke detector: clean the detector at least once a year to remove accumulated dust and maintain its efficiency.

UTILISATION

1. Dispose of in accordance with local electronic waste regulations.
2. Do not dispose of in fire or incinerate.

WARRANTY

Product covered by a 24 month manufacturer's warranty from the date of purchase. In case of problems, contact customer service.

Attachement

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