



Carbon Monoxide Alarm

User's Manual



1 Information on carbon monoxide

What is carbon monoxide (CO)

Carbon monoxide is an odourless, tasteless, highly toxic and flammable gas produced by the incomplete combustion of carbon-based fuels. Prolonged exposure to a carbon monoxide-rich environment leads to serious tissue damage or even death.

What are the symptoms of carbon monoxide poisoning?

- Mild exposure (about 100-200 ppm): mild headache, nausea, vomiting, fatigue (often described as "flu-like" symptoms).
- Medium exposure (about 400 ppm): violent throbbing headache, drowsiness, confusion, fast heartbeat.
- Extreme exposure (about 800 ppm): unconsciousness, convulsions, cardiorespiratory failure, death.

Parts per Million (PPM)	Effects on Adults
100	Mild headache, nausea, vomiting, fatigue (often described as "flu-like" symptoms).
200	Dizziness and headache within 2-3 hours.
400	Nausea, frontal headache, drowsiness, confusion and rapid heart rate. Risk to life after over 3 hours of exposure.
800	Severe headaches, convulsions, vital organ failures. Death possible within 2-3 hours.

Where does carbon monoxide come from?

Carbon monoxide is caused by poor or incomplete combustion.

- A furnace, boiler, cooker, pellet stove, fireplace, wood stove, charcoal grill can be sources of carbon monoxide, especially if they are not working properly or if they are located in a poorly ventilated room.
- Vehicle exhaust gases in enclosed spaces (garage) can also become carbon monoxide hazards.
- With the use of paraffin heaters or charcoal grills/bbqs indoors or running a car in a garage, carbon monoxide levels can get so high that it can cause death.

How do I know if carbon monoxide is present?

Poisoning is measured in a range called parts per million (ppm). This CO Alarm monitors the level of carbon monoxide (CO) in the air. If the CO concentration is too high, the detector sounds a loud alarm.

When the alarm sounds, warn all household members, go outside immediately and call 112.

How do I protect myself and my family from carbon monoxide poisoning?

- Install one or more carbon monoxide detectors in your home.
- Have your home's heating system, boiler and other gas, oil or coal appliances checked every year by a competent person or company.
- Make sure that your combustion appliances and engines are well ventilated.

- Have your chimney checked and cleaned every year.
- Use gas appliances as recommended. Never use a gas cooker or oven to heat indoor areas.

What should I do if the carbon monoxide alarm goes off?

When the carbon monoxide concentration reaches a dangerous level, the carbon monoxide detector emits a loud alarm signal (85dB) and the Alarm LED flashes rapidly.

- Inform all household members of the danger.
- Go outside immediately and call 112.
- Do not re-enter the premises until the alarm has been stopped and the source of the leak has been dealt with by an expert.



CAUTION

Unlike a smoke detector, a carbon monoxide alarm does not easily give false alarms. If the CO alarm goes off, take it seriously and assume that there is an excessive concentration of CO somewhere.

2 Important precautions and warnings

This manual will help you to use the alarm correctly. Read this manual carefully before using the alarm. Keep this manual for future reference.

Instructions for use



WARNING

- Never ignore an alarm. Failure to respond may result in serious injury or death.
- Do not attempt to open or disassemble the detector. There is a risk of electric shock or malfunction if the detector is tampered with.



CAUTION

- Transport, use and store the detector under the permitted humidity and temperature conditions.
- Prevent liquids from splashing or dripping on the detector. Prevent liquid from entering the detector by ensuring that no objects containing liquid are placed on top of it.
- This CO Alarm is designed to detect only the presence of CO; it cannot detect smoke, gas, heat or flames.
- This device is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the detector by a person responsible for their safety.
- Vapours or gases, e.g. in cleaning liquids, polishes, paints, cooking processes, etc., can affect the detector's reliability in the short or long term.
- A list of materials that may be expected to be found in recreational vehicles that may produce vapours or gases, e.g. oils, cleaning fluids, polishes, paints, greases, cooking operations, etc., which may affect the reliability of the apparatus in the short or long term.

Installation instructions



WARNING

If you do not install and operate this detector properly, it will not function properly and will not react adequately to carbon monoxide hazards. See Section 5 for proper installation.



CAUTION

- Before installation, read Section 5 on the correct installation location of the CO Alarm.
- Do not expose the detector to direct sunlight or heat sources.
- The detector must be installed by a competent person.

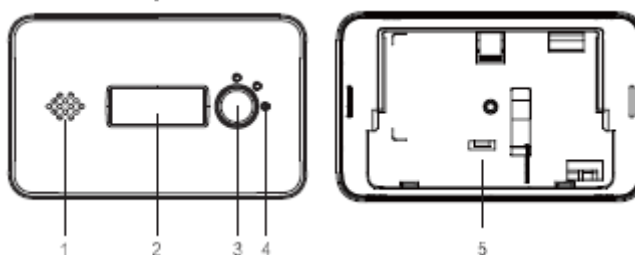
3 Product

3.1 Product information

This Carbon Monoxide Alarm (hereinafter referred to as the Device) responds quickly with high sensitivity, stable performance and low false alarms when there is too much Carbon Monoxide in the air. This Device is able to measure carbon monoxide levels as low as 30 ppm using the high quality sensor. As soon as the ambient carbon monoxide concentration reaches the alarm value, the Device sounds a loud 85dB alarm and the alarm LED flashes rapidly. The LCD display shows the amount of ppm.

This Device is certified in accordance with the latest European standard **EN 50291-1: 2018 & EN 50291-2: 2019** for carbon monoxide detectors.

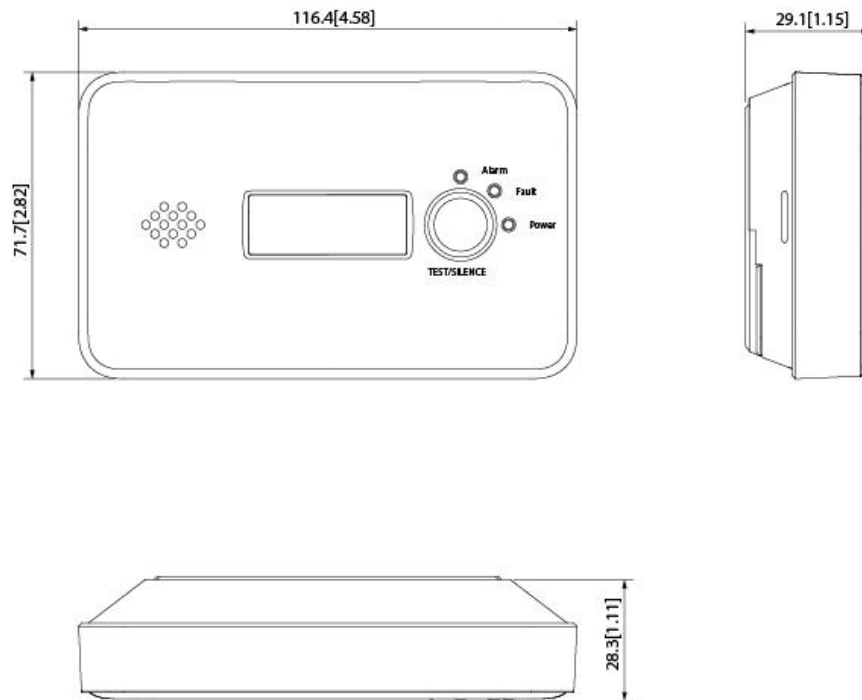
3.2 Product profile



No.	Section	Description
1	Buzzer	Alarm sound: 85dB (A) at 3 meters.
2	LCD display	Displays the current carbon monoxide concentration or peak reading.
3	Test/Silence button	- Check normal operation: press the Test/Silence button; the detector now beeps 3 times. The LCD display will show 8888 for 3 seconds and all LED lights will flash 3 times. - Stop the alarm sound: Press the Test/Silence button and the detector will temporarily stop the alarm sound (45 seconds).
4	Indicator	- Standby: Power LED flashes once per minute. - Alarm: Alarm LED flashes red. - Fault: Fault LED is flashing yellow.
5	Battery compartment	Built-in battery, not replaceable by user.

3.3 Dimensions

Image 3-1 Dimensions (mm)



4 Technical Information

Parameter	Introduction
Detection gas	Carbon monoxide (CO)
Alarm triggered at the specific CO concentration within the time periods listed	● 50 ppm: 60-90 min ● 100 ppm: 10-40 min ● 300 ppm: < 3 min
Operating voltage	3 V direct current (DC)
Guard current	≤ 20 uA
Alarm current	≤ 10 mA
Operating temperature	-10°C to +40°C (+14°F to +104°F)
Relative humidity	≤ 95% RH (non-condensing)
Alarm method	Visual and audible alarm
Alarm volume	≥ 85 dB (A) @ 3 m
Muting	Support
Dimensions	116.4 mm × 71.7 mm × 28.3 mm
Installation	Mounting plate for wall
LED light	● Red: Alarm ● Yellow: Fault ● Green: Standby (1x per minute)
Sensor lifetime	10 years
Battery life	10 years
Duration silence	45 sec.
Certificates	EN 50291-1: 2018 & EN 50291-2: 2019

5 Installing the detector

5.1 Package content

Check the contents of the package against the list below. If the Device is damaged or a part is missing, please contact the supplier.

Table 5-1 Checklist

Name	Number
Carbon monoxide alarm	1
Drilling template	1
Set of screws/plugs	1
User Manual	1

5.2 Installation position



This CO alarm is suitable for use in domestic premises (caravan holiday homes), caravans, motor caravans and boats. The following advice is applicable to all intended applications.

In which room should the Device be installed?

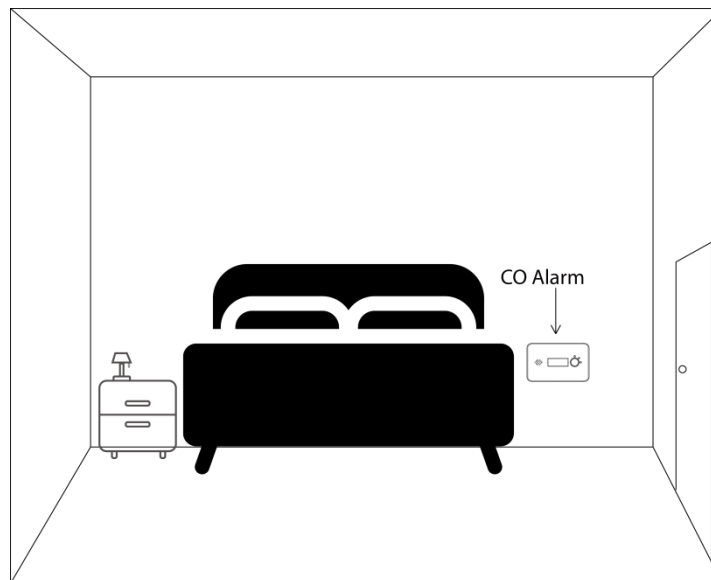
Preferably install a carbon monoxide alarm in every room with a combustion appliance. For added safety, also install devices in living rooms and bedrooms.

Make sure you can always hear the Device when it sounds the alarm.

Where in the room should the Device be installed?

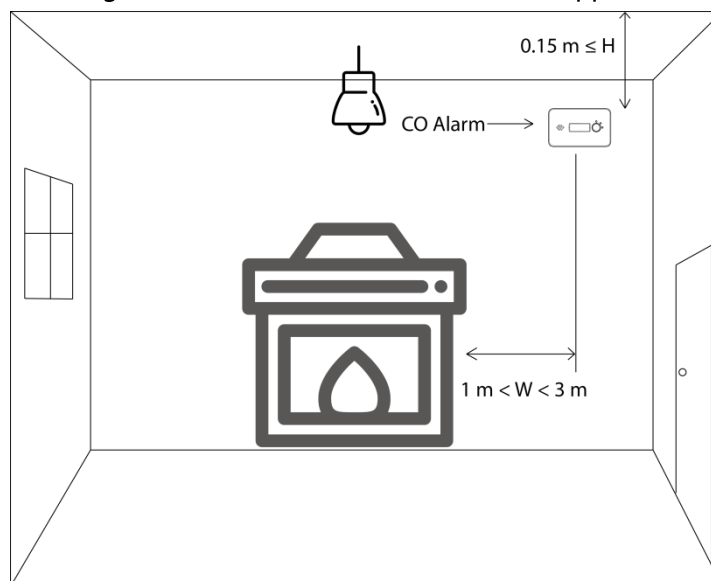
- Install in a bedroom **without a combustion device**.
 - Install the alarm at the occupants' breathing height.
 - Never install the alarm on or near the floor. Carbon monoxide mixes with air and will therefore rarely travel to the floor.

Image 5-1 Installation in a bedroom without a fuel appliance



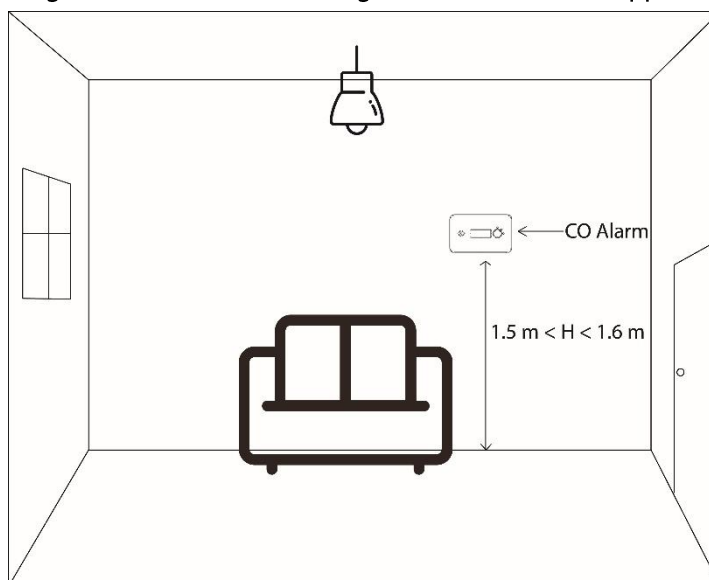
- Install in a living room **with a combustion device** (stove, boiler, fireplace, gas fire).
 - Install the alarm above the combustion device. Carbon monoxide rises to the surface due to the hot gases from the combustion device.
 - Install the alarm at least 15 cm from the ceiling.

Image 5-2 Installation in a room with a fuel appliance



- Install in a living room **without a combustion device**.
 - Install the alarm on a wall about 1.5 meters to 1.6 meters above the floor.
 - Never install the alarm on or near the floor. Carbon monoxide mixes with air and will rarely travel to the floor.

Image 5-3 Installation in a living room without a fuel appliance



Do not install a CO alarm here

- Dusty, dirty, greasy or damp areas.
- In poorly ventilated kitchens, garages, boiler rooms, confined spaces (e.g. in a cupboard or behind a curtain) where smoke or fumes circulate under normal working conditions.
- Near stoves, cookers and other hot and easily contaminated places.
- Against or near the floor.
- Directly above the source of heat and steam.
- In direct sunlight.
- Near obstructed areas (e.g. by furniture).
- Next to a door or window, exhaust fan, air vent or other similar ventilation openings.
- In rooms where the temperature may drop below -10 °C or rise above 55 °C.

5.3 First use

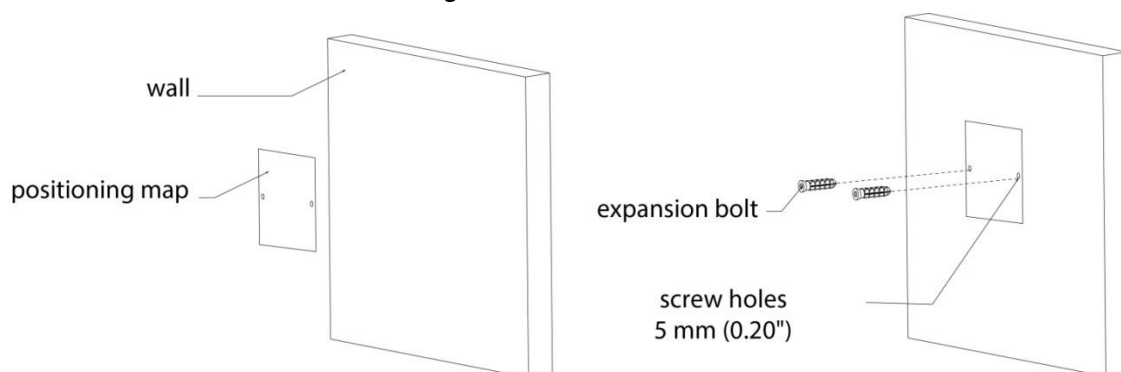
Carefully remove the plastic tab from the battery.

Step 1: Select a suitable location for placing the drilling template.

Step 2: Mount the device with screws or a magnetic mounting kit (not included).

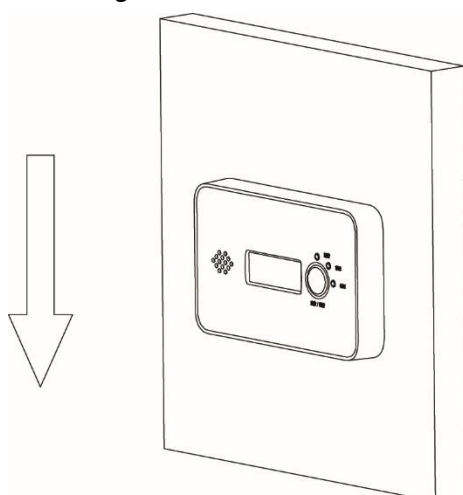
- Screws
- 1) Drill screw holes (5 mm) according to the drilling template on the mounting surface and then insert the dowels into the holes.

Figure 5-4 Installation (1)



- 2) Attach the device to the mounting surface.

Figure 5-5 Installation (2)



Step 3: After installation, test the device by pressing the **Test/Silence** button. Check that the LED lights, buzzer and LCD display are working properly as described in chapter 3.2.

6 Operation LCD screen

LCD display	LED status	Alarm sound	Unit status	Solutions
Lights up 3 seconds (8888)	All LED lights flash 3 times	The buzzer beeps 3 times	Self-test	No
-	The Power LED blinks green once per minute	No	The detector switches on and works normally	No
Carbon monoxide concentration in ppm	The Alarm LED flashes red once per second	The buzzer beeps 1 time per second	A carbon monoxide leak has been discovered	Inform all household members, go outside immediately and call 112
	No	No	Peak volume measured	No
Lb	The Fault LED flashes yellow once a minute	Buzzer beeps 1 time per minute	Battery low	Replace the detector immediately
Err	The Fault LED flashes yellow 2 times per minute	The buzzer beeps 2 times per minute	Failure	See chapter 8 Frequently asked questions
End	The Fault LED flashes yellow 3 times a minute	The buzzer beeps 3 times per minute	End of life	The maximum service life has been reached. Replace the device immediately

PEAK VOLUME MEASUREMENT

This detector displays on the LCD the amount of carbon monoxide measured in the past. This peak volume is displayed in ppm and remains on the LCD until the peak reading is reset.

CAUTION

If the LCD screen is on for a longer period of time, it will affect the battery life. Please check the LCD screen of your detector regularly.

CAUTION

A peak reading on the LCD screen indicates that carbon monoxide has been measured in the past. Ventilate where possible and call a professional or installer immediately to have your appliances checked.

7 Testing and maintenance

7.1 Testing

After installing or maintaining the device, always perform a test to check that it is working properly. See section 3.2.

If the device fails the test, contact the supplier.

Self-test device

Press the **Test/Silence** button; the 3 LED lights will now flash rapidly and the buzzer will beep 3 times. The LCD display shows 8888 for 3 seconds.

Empty battery

When the battery voltage drops below a certain threshold, the Power indicator flashes and the buzzer beeps every minute until the battery is empty. Please replace the device immediately or contact technical support for advice.

7.2 Maintenance

- Clean the device at least once a year by cleaning the housing. Use a soft cloth or the soft brush of a Hoover for this purpose. Avoid applying cleaning agents to the device to avoid possible contamination of the sensor.
- Test the device every week (recommended).
Under normal operating conditions, press the **Test/Silence** button once to ensure that the buzzer and LED lights operate normally. If a malfunction occurs, please correct it in time.
- If installing in a caravan or boat there may be other substances present that could affect the reliability of the CO alarm. Avoid using the following in close proximity to the alarm: oils, cleaning fluids, polishes, paints and greases.

8 Frequently asked questions

Problem	Analysis	Solutions
The green Power LED does not blink once per minute	The battery is not inserted	Pull out plastic seal or tab
	The LED bulb is broken	Contact the supplier for advice
Press the Test/Silence button; there is no alarm	Circuit breaker	Contact the supplier
No response to detected carbon monoxide	Circuit breaker	Contact the supplier
The device continuously emits a sharp, high-pitched sound	There is a large amount of volatile substances such as alcohol, perfume, petrol or paint present	Move the device to clean air (outside) and let it "operate" for 2 hours to allow the gases to escape from the device
	Circuit breaker	Contact the supplier

9 Discard



Waste electrical products must not be disposed of with other household waste. Please dispose of the electrical appliance in an environmentally-friendly manner and in strict accordance with local regulations on the disposal or recycling of electrical appliances.



WARNING

Do not burn or throw into fire.

10 Warranty

If you need after-sales service, please contact your local dealer or retailer.

11 Documents

The full text of the EU declarations of conformity and EU declarations of performance is available at the following internet address:

<https://en.wisualarm.com/en/Download>



For more information, please scan the QR code below or visit

<https://en.wisualarm.com/en/Product>.

