1. Welcome

Thank you for purchasing the Honeywell XC100D CO alarm.

The symbols above mean that the alarm is suitable for use in appliances including appropriate ventilation and exhaust systems.

2. Description

Installation of a CO alarm should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

This CO alarm is designed to protect individuals from the acute effects of carbon monoxide exposure. It will not safely safeguard individuals with specific medical conditions. If in doubt consult a medical practitioner.

3. About Carbon Monoxide (CO)

Signs and Symptoms

75%

14%

6%

XC100D

15%

3%

Gas inlet

Negative indication for CO unit alarm

Gas outlet

CO pre-alarm levels

Full CO alarm

Fault

Power

Alarm

The symbols above mean that the alarm is suitable for use in living in a large or multi-story dwelling. Some wireless module information is included in this manual for completeness.

4. CO Alarm Operation

4.1 XC70

All alarms have four status indicator lights, an audible alarm and a TEST/HUSH button.

The green POWER light indicates that the unit is activated and working normally.

The red ALARM light indicates that a dangerous CO condition has been detected.

The blue VENTILATE light gives an early indication of a dangerous CO condition.

The yellow TEST/HUSH light indicates that the unit is not working properly.

The TEST/HUSH button is used to test the unit, or to mute an alarm or fault signal.

Normal operation

The green POWER light will flash once per minute, to indicate that your alarm is working. The screen of the XC70 will be blank.

Alarm

If a dangerous CO condition is detected the red ALARM light message will flash and the audible alarm will sound continuously.

XC100 will display the current CO level and a skull symbol.

The unit is in ALARM and the gas clears, the unit will go into Alarm Memory mode. Press the TEST/HUSH button to return to normal operation.

If your unit is in ALARM, keep calm, and carry out the following actions in the order given:

- Open all doors and windows to increase the rate of ventilation
- Stop using all fuel-burning appliances and turn them off where possible
- If the alarm continues, then evacuate the premises. Leave the doors and windows open, and only re-enter the building when the alarm has stopped
- Get medical help for anyone suffering the effects of Carbon Monoxide poisoning, such as headache or nausea, and advise that Carbon Monoxide inhalation is suspected
- Telephone the gas or other fuel supplier on their emergency number, so that the source of carbon monoxide emissions can be identified and corrected
- Do not use the fuel burning appliances again until they have been checked and cleared of foul for a competent person as agreed according to national regulations.

Note: There may be another source of carbon monoxide emission apart from fuel-burning appliances, for example a large amount of tobacco smoke, town gas or emission from a laminate fire.

4.2 XC100

Current CO concentration detected

Dangerous CO condition detected

Another interconnected CO alarm

Dangerous CO condition detected by another interconnected CO alarm

Dangerous CO condition detected

олько currently used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

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4.2 XC100

All alarms have four status indicator lights, an audible alarm and a TEST/HUSH button.

The green POWER light indicates that the unit is activated and working normally.

The red ALARM light indicates that a dangerous CO condition has been detected.

The yellow TEST/HUSH light indicates that the unit is not working properly.

The TEST/HUSH button is used to test the unit, or to mute an alarm or fault signal.

Normal operation

The green POWER light will flash once per minute, to indicate that your alarm is working. The screen of the XC100 will be blank.

Alarm

If a dangerous CO condition is detected the red ALARM light message will flash and the audible alarm will sound continuously.

XC100 will display the current CO level and a skull symbol.

The unit is in ALARM and the gas clears, the unit will go into Alarm Memory mode. Press the TEST/HUSH button to return to normal operation.

If your unit is in ALARM, keep calm, and carry out the following actions in the order given:

- Open all doors and windows to increase the rate of ventilation
- Stop using all fuel-burning appliances and turn them off where possible
- If the alarm continues, then evacuate the premises. Leave the doors and windows open, and only re-enter the building when the alarm has stopped
- Get medical help for anyone suffering the effects of Carbon Monoxide poisoning, such as headache or nausea, and advise that Carbon Monoxide inhalation is suspected
- Telephone the gas or other fuel supplier on their emergency number, so that the source of carbon monoxide emissions can be identified and corrected
- Do not use the fuel burning appliances again until they have been checked and cleared of foul for a competent person as agreed according to national regulations.

Note: There may be another source of carbon monoxide emission apart from fuel-burning appliances, for example a large amount of tobacco smoke, town gas or emission from a laminate fire.

4. CO Alarm Operation continued

4.2 XC100

The unit will go into Alarm Memory mode. Press the TEST/HUSH button to return to normal operation.

If your unit is in ALARM, keep calm, and carry out the following actions in the order given:

- Open all doors and windows to increase the rate of ventilation
- Stop using all fuel-burning appliances and turn them off where possible
- If the alarm continues, then evacuate the premises. Leave the doors and windows open, and only re-enter the building when the alarm has stopped
- Get medical help for anyone suffering the effects of Carbon Monoxide poisoning, such as headache or nausea, and advise that Carbon Monoxide inhalation is suspected
- Telephone the gas or other fuel supplier on their emergency number, so that the source of carbon monoxide emissions can be identified and corrected
- Do not use the fuel burning appliances again until they have been checked and cleared of foul for a competent person as agreed according to national regulations.

Note: There may be another source of carbon monoxide emission apart from fuel-burning appliances, for example a large amount of tobacco smoke, town gas or emission from a laminate fire.

4.5 XC100D

The XC100D has an LCD screen to provide more information about the unit. If any error codes occur, the screen will display the error code and an explanation of what to do.

The XC100D also has a power failure indicator light that will flash once per minute, to indicate that the unit is not working.

4.6 XC100D

Dangerous CO condition detected

Another interconnected CO alarm

An end-of-life signal may be displayed when the XC100D reaches the end of its useful life. When this occurs, the XC100D will enter Alarm Memory mode and the screen will display a message saying that the unit is entering Alarm Memory mode.

If the unit is in ALARM, the audible alarm can be silenced for 5 minutes by pressing the TEST/HUSH button (the red light will continue to flash, XC100D will show the muted symbol). If a dangerous gas level is still present after 5 minutes, the audible alarm will sound again.

Alarm memory

The XC100D does not leave any detectable traces, so if an alarm happens while you are out, the memory function will keep the red light flashing. If the button is pressed or if there is an alarm, the XC100D will also show the recorded peak concentration level for 10 seconds after pressing the button.

Event logger

Honeywell's CO alarms record a history of events, which can be downloaded by professionals. This provides a more in-depth analysis of CO events such as detailed information on the CO concentration of the last 7 days, and weekly maximums for the whole operating life. Dates of alarm events are recorded.

4.6 XC100D

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**4. CO Alarm Operation continued**

**Low Level Monitoring Mode**

Normally, the CO alarm only reacts an Alarm condition after a gas concentration higher than 50 ppm has been present for a period of time. It can be temporarily set to a low level monitoring mode, to enable it to be used as a measuring device. Once this mode is activated, the alarm will signal the presence of a CO level higher than 10 ppm immediately.

To activate the low level monitoring mode, press and hold the test button for 18 seconds. During this time, the volume and high volume tests will be active. After 18 seconds you will see a green and a blue light flash and hear a short chirp and you can release the button. The low level monitoring mode is now active for 60 minutes, which is indicated by the flashing green light every 4 seconds.

CO concentrations higher than 10 ppm will be indicated by a flashing blue light. XC100D will also display the CO concentration.

This low level mode will end automatically after 60 minutes or by pressing the button at any time.

**5. Precautions during use**

The CO alarm does not require any maintenance other than to clean the outside case occasionally with a clean tissue. Ensure that the holes on the front of the unit are not blocked with dust or dirt. Some common household substances can affect the sensitivity of the CO alarm. Do not use household cleaners, polishes, perfumes or aerosol sprays or close to the alarm. Avoid the use of nail polish remover, model paint or model glue close to the alarm.

**6. Testing your alarm**

**Automatic self-test**

Your CO alarm has an automatic self-test function for the electronics, which performs every 60 minutes.

**Monthly Test**

The CO alarm should be tested once per month, to check that all visual and audible signals are working.

Press the test button for 1 second to activate a full test cycle showing all lights/messages (green, yellow, red, blue and sound) and the audio output at a reduced level. If you wish, hold the test button for 10 seconds to test with the full 85dB sound level.

**Test/Measuring mode overview:**

**7. Specification**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP rating</td>
<td>IP44</td>
</tr>
<tr>
<td>Humidity</td>
<td>25 - 95% RH (non-condensing)</td>
</tr>
<tr>
<td>Temperature</td>
<td>-10°C to +45°C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>100 mm x 72 mm x 36 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>133 g (including battery)</td>
</tr>
</tbody>
</table>

**8. Installation - Where to put the alarm**

Ideally, an alarm should be fitted in every room containing a fuel burning appliance. It is strongly recommended to also fit alarms in bedrooms, and in rooms where you spend a lot of time.

If the alarm is being fitted in the same room as a fuel burning appliance:

- It should be located close to the ceiling and at a height greater than the height of any door or window.
- A ceiling mounted alarm should be at least 0.5m from any wall, and a wall-mounted alarm should be at least 1.5m from the ceiling. Note: Ensure that you can access the tamper-proof locking tab.
- The alarm should be at a horizontal distance of between 1m and 3m from the nearest edge of the potential source.

If the alarm is being fitted in a room without a fuel-burning appliance it should be located relatively close to the breathing zone of the occupants. For premises such as boat cabins, caravans or boats where the accommodation is a single living space incorporating the sleeping area, the alarm should be positioned as far from the cooking appliances as possible but near to where the person sleeps.

**9. Installation - Where not to put the alarm**

The alarm should not be installed:

- In any outside location or where the temperature may drop below -10°C or exceed 45°C
- In an enclosed space or where it can be obstructed
- Directly above a sink or in the immediate vicinity of a cooking appliance
- Next to a door or window, extractor fan or air vent
- Where dirt and dust may block the sensor
- In a damp or humid location

**10. Installation - Mounting the alarm**

For quick wall mounting:

1. Place the wall mounting plate where you want to mount the alarm.
2. With a pencil, mark the location of the central key hole.
3. Drill holes of diameter 5 mm and insert appropriate wall plugs.
4. Screw the mounting plate to the wall.

For tamper proof wall or ceiling mounting:

1. Place the wall mounting plate where you want to mount the alarm.
2. With a pencil, mark the location of the two screw holes.
3. Drill holes of diameter 5 mm and insert appropriate wall plugs.
4. Screw the mounting plate to the wall/ceiling.

**11. First time switch on**

Note: The optional Pre-Alarm function can only be activated during the first 30 seconds after switching on the alarm.

The alarm is switched on by clipping it into its place in the wall mounting plate.

Caution: Even if your alarm is free standing, you must attach the wall mounting plate.

1. Fit the alarm onto the wall mounting plate approximately 10 mm to the left of centre.
2. Press firmly against the wall plate and slide the alarm to the right.
3. Tamper proof locking tab will click into place.
4. All lights will flash in sequence and the sounder will chirp to indicate that the alarm has been activated.
5. The green light will blink once per minute indicating that the alarm is operating.
6. Test the alarm following the procedure for the Monthly Test.

**12. Activate the Pre-Alarm function**

To activate the Pre-Alarm function, which gives an early indication of a dangerous CO condition, press the TEST/HUSH button five times during the first 30 seconds after switching on the alarm. The power light will flash each time the button is pressed during the first 30 seconds after switching on the alarm.

For tamper proof wall or ceiling mounting:

1. Place the wall mounting plate where you want to mount the alarm.
2. With a pencil, mark the location of the central key hole.
3. Drill holes of diameter 5 mm and insert appropriate wall plugs.
4. Screw the mounting plate to the wall/ceiling.

**13. Switch off the alarm**

The alarm is switched off by removing it from the wall mounting plate. Use a suitable tool such as a small screwdriver to press on the tamper proof tab located at the top right edge of the alarm, and then slide the alarm to the left to remove it from the wall mounting plate.

**14. Conformance**

The CO alarm is certified by BSI to the European standard EN 50291-2:1999 “Electrical appliance for the detection of carbon monoxide in domestic premises” and EN50291-2 “Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft.” It conforms to the Low Voltage Directive (93/68/EEC) and the Restriction of Hazardous Substances Directive (RoHS).

**15. Troubleshooting and getting assistance**

After you have carefully read all instructions and your alarm still fails to work, contact the nearest customer service centre listed in the “Contact us” section. Customer service advisors may be able to resolve your problem quickly. Alternatively contact your local supplier.

If the product needs to be returned for repair or replacement, put it in a padded box with a letter describing the fault and postage paid. For battery powered devices, ensure that the alarm has been switched off.

A proof of purchase must be provided to claim repair under warranty.

**16. End of life**

When the unit has come to the end of its life, dispose of it in accordance with local regulations. It is classified as electronic waste and contains a battery and therefore should be disposed of separately from household waste.

**17. Disclaimer**

This Carbon Monoxide alarm is designed to alert you to a potentially dangerous build-up of Carbon Monoxide gas. It is not designed to remedy a Carbon Monoxide problem or to locate a specific source of Carbon Monoxide. Honeywell shall not be liable to pay any Carbon Monoxide investigation or service call carried out or arranged in response to an alarm.

**18. Warranty**

Honeywell warrants your new CO alarm for seven years (XC100D model) or ten years (XC100D model) from the date of purchase by the end user or until the expiry date on the side of the unit, whichever occurs first. After that time, the warranty is capped at the price of the product.

We will, at our discretion, repair or replace, with same or similar product, any part of the CO alarm which is found to be defective in either materials or workmanship within the warranty period.

We shall be under no obligation to repair or replace units which are found to be defective in any way due to unreasonable use or neglect, improper storage, usage or maintenance not in accordance with the user manual or if the product has been tampered with or found to have been damaged.

This warranty is invalid and excludes all warranties implied by law, and to the extent permitted by law, our liability under this warranty is capped at the price of the product.

In no event are we liable for (a) any direct, indirect, incidental, consequential loss; (b) any loss arising from business interruption; (c) loss of profits; (d) loss of revenue; (e) loss of use of any property or capital; (f) loss of anticipated savings or loss of data.