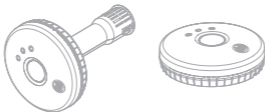
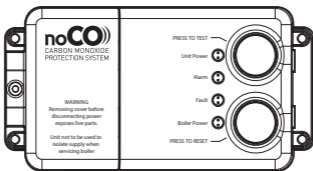


noCO

CARBON MONOXIDE
PROTECTION SYSTEM

Control Unit User Guide

Part No: 7211366



IMPORTANT: Leave this manual with the end user!

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INTRODUCTION

Please keep this User Guide in a safe place. If you move house, please hand it to the next occupier.

Please ensure that you have read and fully understood these instructions before using this device. Children should be supervised to ensure that they do not play with this device.

This NoCo Carbon Monoxide Safety System is designed for use with gas and oil fired domestic boilers and the NoCO range of Wireless Carbon Monoxide Alarms.

This system is particularly suitable for domestic gas heating systems in which the boiler flue has been enclosed within a void* or where the appliance is located in a living space.

This NoCO Control Unit can be wirelessly interlinked with up to 49 NoCO carbon monoxide alarms which will detect the presence of carbon monoxide. The alarms can be Void Alarms, Room Alarms or a mixture of both.

The NoCO Control Unit and carbon monoxide alarms have been wirelessly interlinked (paired) to create a network. This means that in the event of a carbon monoxide leak the carbon monoxide alarms will sound to warn you of the danger and your boiler will shut down.

* What is a void? A void, as related specifically to this product's objective, is a hidden enclosed space within the fabric of a domestic building through which a boiler's flue passes.

FEATURES

- The Control Unit is a mains powered product with encoded wireless interlink to enable a network of carbon monoxide alarms, which will sound simultaneously in the event of a carbon monoxide leak.
- The NoCO Carbon Monoxide Protection System is designed to give the earliest warning of a carbon monoxide leak from hidden flues or faulty fuel burning appliances.
- Each NoCO alarm will sound a loud 85dB* alarm to alert you in the event of a carbon monoxide leak.
- When wirelessly interlinked with NoCO carbon monoxide alarms, the NoCO Control Unit will also switch off your boiler in the event of a carbon monoxide leak from a boiler flue or faulty fuel burning appliance.
- This system will enter alarm mode on sensing above acceptable levels of carbon monoxide whatever the source (e.g. your cooker, open fire or even a neighbour's boiler should their flue leak carbon monoxide into a shared void containing a NoCO alarm).
- 2 year warranty.

*at 1 metre / 3 feet.

UNDERSTANDING THE NoCO CONTROL UNIT INDICATORS (LEDS)

Status	Unit Power (Green)	Alarm (Red)	Fault (Yellow)	Boiler Power (Green)	Boiler Status	Action required
Standby	On	Off	Off	On	On	None
CO detected	On	Flashing once per sec	Off	Off	Boiler has switched off	Open windows and evacuate. Contact your Gas Safe registered installer.
CO dissipated	On	Flashing once every 10 secs	Off	Off	Boiler has switched off	Fuel burning appliances to be serviced before boiler can be reset. Contact your Gas Safe registered installer.
Control unit is not networked with any CO alarms	On	Flashing alternately with Fault LED (yellow)	Flashing alternately with Alarm LED (red)	Off	Off	Contact your Gas Safe registered installer to wirelessly interlink unit with CO alarms.
Network fault	On	Off	Flashing	Off	Off	See Trouble-shooting.
Network re-established	On	Off	Flashing once every 10 secs	Off	Off	Press reset button.

We recommend that you test the NoCO Control Unit and NoCO carbon monoxide alarms weekly.

TESTING THE SYSTEM

To test the network is working correctly and ensure that the NoCO alarms will activate the boiler shut off feature in the event of a carbon monoxide leak it is recommended that you regularly test both the NoCO alarms and the NoCO Control Unit.

A: Testing the CO alarms:

1. In order to be able to see the Control Unit indicators at the same time as pressing the test button on the NoCO alarms, it is likely you will need two people to perform this operation.
2. Press the test button on the NoCO alarm.
3. All paired CO alarms in the network will sound a pattern of 2 x 4 short beeps and the Alarm LED (red) on the NoCO alarm you are testing will flash.
4. The Alarm LED (red) on the NoCO Control Unit will flash for 60 seconds. If the Alarm LED on the Control Unit does not flash, the alarms are not wirelessly interlinked with the NoCO Control Unit, and will need to be interlinked (paired).

B: Testing the NoCO Control Unit

1. Press the test button on the NoCO Control Unit.
2. The Alarm LED (red) on the NoCO Control Unit will flash once per second for 10 seconds. The CO alarms will sound a pattern of 2 x 4 short beeps (but will not flash). If any CO alarm does not sound, it is not wirelessly interlinked (paired) with the NoCO Control Unit.

If the CO alarm and/or NoCO Control Unit does not test:

1. Check the NoCO alarm operation as indicated in the NoCO alarm Installation and user Guide.
2. Check troubleshooting guides in both product user guides.

For further assistance, please contact your Gas Safe registered installer. If you are unable to resolve the issue, call the NoCO Technical Helpline on **0844 241 2504** or see further information on **www.no-co.co.uk**

REMOVING YOUR NoCO ALARM FROM ITS BASEPLATE

Removing your NoCO alarm from its baseplate (for redecorating for example) will disengage the battery so your alarm will stop functioning.

Important: Removing your NoCO alarm from its baseplate will shut off your boiler. This is a necessary safety precaution and no attempt should be made to override this feature. You will see that the Fault LED (yellow) on the NoCO Control Unit will flash once every 3 seconds which indicates that one or more alarms is missing from the network. When you are ready to replace the alarm back into position, you can restart the boiler as follows:

1. Re-fit all NoCO alarms back on their baseplates.
2. Wait at least 5 minutes for the system to re-establish the network. Once the Control Unit has recognised the NoCO alarm is back on its baseplate, the Fault LED (yellow) will change from a rapid flash to one flash every 10 seconds.
3. Press the reset button on the NoCO Control Unit briefly. The Fault LED (yellow) will stop flashing and the boiler supply will come back on again.

WHAT WILL HAPPEN IN THE EVENT OF A CARBON MONOXIDE LEAK BEING DETECTED?

In the event that a NoCO alarm detects dangerous levels of carbon monoxide (as stated in EN:50291-1:2010), the system will enter alarm mode. The Alarm LED (red) on the NoCO Control Unit will flash continuously, once per second.

The boiler will switch off and User Lock Out will set.

The system will activate:

- After a period of between 60 and 90 minutes when exposed to a minimum of 50ppm* of carbon monoxide.
- After a period of between 10 and 40 minutes when exposed to a minimum of 100ppm* of carbon monoxide.
- Within 3 minutes when exposed to a minimum of 300ppm* of carbon monoxide.

The Alarm LED (red) on the Control Unit will flash continuously, once per second.

All NoCO alarms will sound a pattern of 4 loud beeps continuously and the Alarm LED (red) of the NoCO alarm which detected carbon monoxide will also flash.

*ppm = parts per million. This is a measure of the concentration of carbon monoxide in the air. The above alarm trigger points should be viewed in the context of the following table.

Concentration	Symptoms
35 ppm	Headache and dizziness within six to eight hours of constant exposure.
100 ppm	Slight headache in two to three hours.
200 ppm	Slight headache within two to three hours; loss of judgement.
400 ppm	Frontal headache within one to two hours.
800 ppm	Dizziness, nausea, and convulsions within 45 min; insensible within two hours.
1,600 ppm	Headache, dizziness, and nausea within 20 min; death in less than two hours.
3,200 ppm	Headache, dizziness and nausea in five to ten minutes. Death within 30 minutes.
6,400 ppm	Headache and dizziness in one to two minutes. Convulsions, respiratory arrest, and death in less than 20 minutes.
12,800 ppm	Unconsciousness after 2-3 breaths. Death in less than three minutes.

If the level of carbon monoxide detected is less than 200ppm, it is possible to temporarily silence the alarm.

Remote Silence: Pressing the test button on any alarm which does not have a flashing Alarm LED (red) will silence ALL NoCo alarms EXCEPT the instigating alarm (the alarm that has detected the presence of carbon monoxide) for 2 minutes. This allows you to locate the potential source of carbon monoxide.

Local Silence: Pressing the test button on the instigating alarm, identified by a flashing Alarm LED (red) will silence **all** units for 3 minutes.

In all cases a maximum of 2 silence periods is permitted.

When the carbon monoxide gas dissipates, the NoCO alarms will silence automatically. The Alarm LED (red) on the NoCO Control Unit will emit a short flash once every 10 seconds to advise that there has been a carbon monoxide leak.

USER LOCK OUT

When the boiler is switched off as a result of a carbon monoxide leak, a Gas Safe engineer will be required to reset the boiler in order to switch it back on.

The Gas Safe engineer must, before resetting the boiler, fully investigate the cause of the carbon monoxide alarm event and take all appropriate measures to remove any further risk.

Call the NoCO Technical Helpline for assistance on **0844 241 2504** or visit **www.no-co.co.uk** for further information.

WHAT TO DO IN THE EVENT OF AN ALARM

WARNING: A loud alarm is a warning that unusually high and potentially lethal levels of carbon monoxide are present. Never ignore this alarm, further exposure can be fatal. Immediately check residents for symptoms of carbon monoxide poisoning, and contact the proper authorities to resolve all CO problems.

NEVER IGNORE ANY ALARM.

Please carefully review this user manual to ensure that you know what actions to take in the event of an alarm.

What to do during an alarm:

- Keep calm and open the doors and windows to ventilate the property.
- The NoCO system will have already turned off your gas boiler.
- Be aware that the NoCo carbon monoxide protection system will activate and switch off the boiler if the boiler is emitting dangerous levels of carbon monoxide.
- Stop using any other fuel burning appliances and ensure, if possible, that they are turned off.
- Evacuate the property leaving the doors and windows open.
- Do not re-enter the property until the alarm has stopped. When exposed to fresh air it can take up to 10 minutes for the sensor in the alarm to clear and the alarm to stop depending on the level of carbon monoxide detected.
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected.
- Do not use other fuel burning appliances in the home again until they have been checked by an expert. In the case of gas appliances the engineer must be Gas Safe registered.

USEFUL CONTACT NUMBERS

Gas Emergency Service (24 hours)	0800 111 999
Gas Safe Register	0800 408 5500
NoCO Technical Support	0844 241 2504

TROUBLESHOOTING

The Unit Power LED is not illuminated on the NoCO Control Unit	<ul style="list-style-type: none">• Check the mains power to the NoCO Control Unit. The green unit power LED should be illuminated.• If the unit power LED is not on, turn off the mains power and check the fuse. If this does not resolve the problem contact your installer.
The carbon monoxide alarms do not sound when the test button on the NoCO Control Unit is pressed	<ul style="list-style-type: none">• The CO alarms may not be wirelessly interlinked to the NoCO Control Unit. Please contact your Gas Safe registered installer.
The Alarm LED (red) is flashing	<ul style="list-style-type: none">• If the red LED is flashing every second and the carbon monoxide alarms are sounding, the system is in alarm mode, warning of a carbon monoxide (CO) leak, and the boiler will be shut off.• If the red LED is flashing every 10 seconds and the NoCO alarms are no longer sounding, it is indicating that there has been a carbon monoxide leak which has now dissipated. The NoCO alarm flashing the red Alarm LED has sensed carbon monoxide.• Contact your Gas Safe registered installer to arrange for your boiler to be reset. Ensure all fuel burning appliances are checked and serviced.

<p>The Fault LED (yellow) is illuminated</p>	<ul style="list-style-type: none"> • 1 flash every 10 seconds indicates that the NoCO Control Unit temporarily lost network connectivity with a particular unit but connectivity is now re-established. Press the Reset button to reactivate the boiler. • 1 flash every second indicates a fault on the network. Are any NoCO alarms also indicating a fault? Yes - Refer to the NoCO alarm instruction manual, your NoCO alarm has a fault, contact NoCO Technical Support. No - Remote Network Fault. Contact NoCO Technical Support. • 3 flashes every 3 seconds indicates a low battery on a NoCO alarm. Refer to the NoCO alarm User Guide, as this fault may be resettable. • 1 flash every 3 seconds indicates a NoCO alarm has been removed from its baseplate. Check all NoCO alarms are fitted correctly. • 4 flashes every second indicates an internal network fault. Contact NoCO Technical Support.
<p>The boiler is switched off and the Alarm LED (red) is flashing</p>	<ul style="list-style-type: none"> • A carbon monoxide leak has been detected. Keep calm and open the doors and windows to ventilate the property. • Stop using all fuel burning appliances and ensure, if possible, that they are turned off. • Evacuate the property leaving the doors and windows open. • Contact your gas or other fuel supplier on their emergency number. • Remember, your boiler will switch off if the interlinked carbon monoxide alarms detect carbon monoxide. However, it may be another fuel burning appliance causing the carbon monoxide leak, so ensure all fuel burning appliances are checked and serviced.

MAINTENANCE

There are no user maintainable components within this system's devices. However to keep your NoCO alarm(s) in good working order and to maintain the sensor it is recommended that you:

- Test the system weekly.
- Keep the vents of the alarms free of dust by vacuuming around the case with a soft brush attachment as required.

To prevent the possibility of damaging your alarm:

- Never use cleaning solutions on your NoCO alarm. Simply wipe with a slightly damp cloth.
- Do not paint your NoCO alarm (see instructions below for removing the alarm from the baseplate).
- Do not spray aerosols on or near your NoCO alarm.
- Do not use any solvent based products near your NoCO alarm.

IMPORTANT: If you are painting, wall papering, or carrying out any other activity that uses substances that emit strong fumes you will need to remove your NoCO alarm from its baseplate, and store it in a safe location, ideally in a plastic bag for protection. See page 8 for instructions on removing your NoCO alarm from its baseplate.

Should any device appear to not be functioning correctly, please refer to the troubleshooting guide or contact your installer. For further information contact NoCO Technical Support Tel: 0844 241 2504 or see www.no-co.co.uk.

DISPOSAL

Waste electrical products should not be disposed of with regular household waste.

Please recycle where facilities exist. Check with your local authority or retailer or contact the NoCO Technical Helpline for recycling/disposal advice as regional variations apply.

The NoCO Control Unit must be decommissioned before disposal by a person competent in electrical installation.

WARNING: Do not attempt to open. Do not burn.

WARRANTY AND SERVICE

Baxi warrants to the original purchaser that its NoCO Control Unit, Part number 7211366 is free from any defects in materials and workmanship under normal residential use and service for a period of 2 (two) years from the date of purchase.

In the event of a fault within the warranty period, in the first instance please contact your Gas Safe registered installer.

The warranty on the replacement for the NoCO Control Unit, will last for the remainder of the period of the original warranty in respect of the Control Unit originally purchased – that is from the date of original purchase and not from the date of receipt of the replacement product. Baxi reserves the right to offer an alternative product similar to that being replaced if the original model is no longer available or is not in stock.

Proof of purchase may be required by the merchant.

Warranty disclaimers

This warranty does not cover damage resulting from accident, misuse, disassembly, incorrect use, improper installation or lack of reasonable care of the product, or applications not in

accordance with the user manual.

It does not cover events and conditions outside of Baxi's control, such as Acts of God (fire, severe weather etc.).

It does not apply to retail stores, service centres or any distributors or agents.

Baxi will not recognise any changes to this warranty by third parties.

Baxi shall not be liable for any incidental or consequential damages caused by the breach of any expressed or implied warranty.

Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to 2 (two) years.

This warranty does not affect your statutory rights.

Except for cases of death or personal injury, Baxi shall not be liable for any loss of use, damage, cost or charge relating to this product, for to any loss, damage or indirect or consequential cost incurred by you or any other user of this product.

CARBON MONOXIDE AND HOW IT CAN AFFECT YOU

Carbon monoxide is a dangerous, poisonous gas that kills and injures hundreds of people each year. It is often referred to as the silent killer because it has no odour or taste and cannot be seen. Like oxygen, carbon monoxide enters the body through the lungs during the normal breathing process. It competes with oxygen by replacing it in the red blood cells, thereby reducing the flow of oxygen to the heart, brain and other vital organs. In high concentrations, carbon monoxide can kill in minutes.

Many cases of reported carbon monoxide poisoning indicate

that while victims are aware they are not feeling well, they become disorientated and unable to save themselves by either exiting the building or calling for assistance. Exposure during sleep is particularly dangerous because the victim usually does not wake up.

Symptoms of carbon monoxide poisoning

The following symptoms may be related to carbon monoxide poisoning which all household members should be made aware of:

- **Mild Exposure:** Slight headache, nausea, vomiting, fatigue (often described as 'flu like' symptoms).
- **Medium Exposure:** Severe throbbing headache, drowsiness, confusion, fast heart rate.
- **Extreme Exposure:** Lack of consciousness, convulsions, cardiorespiratory failure, death.

Should you suspect CO may be affecting you or your family, open the doors and windows of your property to ventilate, turn off your appliances and evacuate the premises. At this time the authorities should be contacted to locate the source of the carbon monoxide before re-entering the building.

Medical attention should be sought for anyone suffering the effects of CO poisoning (headache, nausea).

Common sources of carbon monoxide:

- Oil and gas boilers
- Gas appliances
- Portable generators
- Oil or solid fuel cookers
- Gas or paraffin heaters
- Barbecues
- Clogged chimneys

- Wood or gas fireplaces
- Cigarette smoke
- Gas appliances
- Any fossil fuel burning appliance
- Vehicle exhaust fumes

WARNING: The NoCO Carbon Monoxide Protection System is not a smoke alarm. Please install the appropriate alarms to detect smoke. This NoCO alarm should not be seen as a substitute for the proper installation, use, and maintenance of fuel-burning appliances (including appropriate ventilation and exhaust systems), nor the sweeping of chimneys.

WARNING: Do not use this carbon monoxide NoCO alarm on an intermittent basis, or as a portable CO alarm for trying to trace one source of the spillage of combustion products from fuel-burning appliances or from chimneys.

DO NOT:

- IGNORE ANY WARNING FROM YOUR NoCO ALARM!
- Burn charcoal inside your home, caravan, tent or cabin.
- Install, convert or service fuel-burning appliances without proper knowledge, skill and expertise.
- Use a gas cooker for heating a room.
- Operate unvented gas burning appliances using paraffin or natural gas in closed rooms.
- Operate petrol-powered engines indoors or in confined areas.
- Ignore a safety device when it shuts an appliance off.

ALWAYS:

- Buy appliances accepted by a recognised testing laboratory.
- Install appliances according to the manufacturer's instructions.
- Have appliance installations carried out by professionals (for gas appliances engineers must be registered with Gas Safe).
- Have your appliances checked regularly by a qualified service engineer.
- Make regular visual inspections of all fuel burning appliances.
- Do not barbecue indoors, or in an attached garage.
- Open windows when a fireplace or oil/solid fuel cooker is in use.
- Be aware of carbon monoxide poisoning symptoms.

EDUCATE YOURSELF AND YOUR FAMILY ON THE SOURCES AND SYMPTOMS OF CARBON MONOXIDE POISONING AND HOW TO USE YOUR NoCO CARBON MONOXIDE CO ALARM PROTECTION SYSTEM.

Tel: 0844 241 2504

Visit www.no-co.co.uk

Open Monday - Friday 8am - 6pm

Saturdays & Bank Holidays 8:30am - 2pm

We are closed on Christmas Day & New Year's Day

Please note calls may be monitored or recorded

NoCO, a registered brand of Baxi Heating UK Ltd, Brooks House, Coventry Road, Warwick CV34 4LL

