

 **LYMPIA**

Carbon Monoxide Alarm CI 200



Operating Manual

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What to do if the CO detectors raise an alarm



Danger! Risk of asphyxiation through carbon monoxide! Carbon monoxide is a highly flammable, invisible, odourless gas. Take every alarm seriously.

- Keep calm.
- Always assume that it is a real emergency situation.
- Open doors and windows to ventilate areas affected.
- Clear the source of the danger where this is immediately obvious and you do not put your own life at risk.
- You and others at risk must move away from the danger area.
- Inform the fire service and wait for any instructions.
- Do not enter the building or residence in which the carbon monoxide alarm has been triggered until the fire service has inspected the affected area.
- Take advantage of medical help for persons suffering from headache, drowsiness, nausea or other symptoms which indicate carbon monoxide poisoning.

Intended Use



Read the operating manual thoroughly and observe the information contained when using the device. Keep the operating manual close by for future reference.

The CI 200 carbon monoxide alarm - subsequently referred to simply as the CO alarm - serves for the detection of different concentrations of carbon monoxide indoors and to issue a loud acoustic signal if it is detected.

If triggered, the CO alarm sends a radio signal which can be received by alarm systems in the Protect and ProHome series or other CO alarms. The alarm system and/or other CO alarms then also issue an alarm.

A condition for complying with the intended use is that the equipment is installed correctly and the information in the manual is observed and maintained. Any other use is considered unintended use. Unauthorised modifications or reconstructions are not permitted and could cause damage to the product.

The CO alarm is not intended for use in industrial environments, business offices, boats, caravans and camping vans.

Package Contents

Please check the contents of the package carefully. If anything is missing or has been damaged during transport, DO NOT put the smoke detector into operation!

1 CO alarm, CI 200


Assembly material (screws, dowels)


2 batteries (alkaline, AA, 1.5 V)


Operating manual


Safety Instructions


The following safety information applies to the entire document. Read and observe all the safety information to protect yourself and the environment from any harm.


 **Warning!** Carbon monoxide can have fatal effects. Carbon monoxide concentrations in the blood interfere with the capability of the body's oxygen supply. Depending on the concentration level, carbon monoxide can have fatal effects within minutes.


 **Warning!** Carbon monoxide is a highly flammable, invisible, odourless gas. Take every alarm seriously. Avoid producing sparks or flames should you hear the alarm! If the alarm is triggered, do not smoke or light a candle. Do not switch on any lights and do not unplug any electrical connections.

 **Warning!** NEVER complete any repairs to the device yourself. Contact our Service department. The device does not contain any parts which the user needs to repair or service.

 **Warning!** Risk of suffocation! Children can swallow small parts, packaging and protective foils. Keep the device and packaging out of reach of children.

 **Warning!** Risk to health from batteries! Keep batteries out of reach of children. Do not swallow batteries. If any type of battery or round cell is swallowed, seek medical attention immediately.

 **Caution!** Risk of property damage through the use of inappropriate batteries! The use of inappropriate batteries can cause a loss of function of the device. Only use batteries of the type described in Section Technical Data.

 **Caution!** Hearing damage through loud alarm signal! The alarm signal is loud and could cause hearing damage. Only use the product in the recommended installation locations. Do not test the product close to your ears. Do not remain in the vicinity of the acoustic alarm for a longer period when it has been triggered.



Caution! Risk of property damage through environmental influences! Prevent environmental influences such as exposure to smoke, dust, vibration, chemicals, moisture, heat and direct sunlight.

Important! For technical reasons, the sensors must not be operated in excess of ten years. As result of chemical wear of the sensor, the CO alarm does not work properly after the service life of ten years specified. Replace the device after ten years even if the outer appearance does not indicate any signs of wear. Avoid direct contact with vapours emanating from adhesives, paints and cleaning agents to prevent the sensor ageing or deteriorating more quickly.

Important Information on Preventive Measures

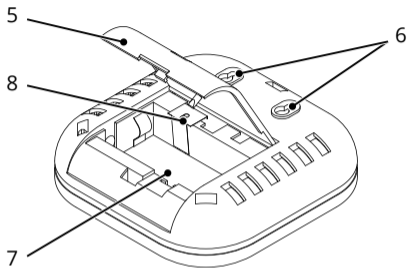
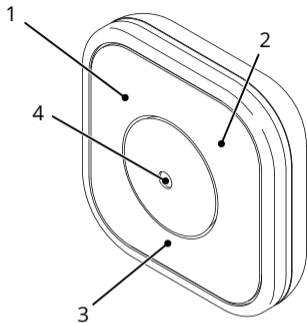
Throughout this operating manual, carbon monoxide is abbreviated to CO.

- The CO alarm does not detect smoke, fire or gases other than CO. Install other appropriate alarms to provide protection from smoke or heat development.
- The most frequent sources of CO development are gas devices, vehicle engines, electricity generators, heat-producing appliances, such as ovens or fireplaces, which do not work properly or are not used correctly and the use of grilling devices in closed rooms.
- Have gas thermostats, gas boilers and other devices and heaters run on gas, as well as air supplies and exhausts, serviced at regular intervals by specialists.

Notes on Use

- The CO alarms can be used individually or when connected to each other.
- Alternatively, the CO alarms can be connected to each other via the base unit of the Protect or ProHome alarm system.
- The CO alarms only monitor a limited area! Therefore, install a sufficient number of CO alarms to ensure optimum protection.
- The CO alarms only work with properly charged, correctly installed batteries.
- The CO alarms must not be operated with rechargeable batteries.
- The CO alarms must not be painted over and the air vents must not be covered.
- It should be possible to hear the CO alarms in the entire living area.
- People under the influence of alcohol, medication or drugs may not be alerted/woken by the alarm signal.

Operating Elements



- 1** Alarm signal LED (red)
- 2** Fault signal LED (yellow)
- 3** Operating signal LED (green)
- 4** Button (for connection, muting and function test)

- 5** Battery compartment cover
- 6** Assembly fittings
- 7** Battery compartment
- 8** Closing lock

Interconnecting the CO alarms without an alarm system

The CO alarms can be connected to each other directly via radio signals. This ensures that, should one of the alarms be triggered, all the CO alarms connected are also triggered. We recommend connecting the CO alarms to each other before actually assembling the CO alarms.



Warning! Hearing damage through loud alarm signal! The alarm signal is loud and could cause hearing damage. Do not test the product close to your ears. Use appropriate ear protectors when connecting the CO alarms.

- 1 Insert two appropriate batteries in the battery compartment of all the CO alarms provided. Pay attention that the batteries are inserted the right way around.
- 2 Press the button (4) on one of the CO alarms (master device) three times in succession.
- 3 The operating signal LED (3) lights up continuously. The main device is ready for connection.
- 4 Press the button (4) on one of the other CO alarms three times in succession. An acoustic signal is issued and the CO alarm is connected to the main device.
- 5 Repeat the connection procedure for all the other CO alarms.

Setting Up With an Alarm System

Registering CO alarms on the alarm system

One of the CO alarms must be registered as the master device on an alarm system from the Protect or ProHome series. The master device should be installed centrally and in transmission range of the alarm system.



Warning! Hearing damage through loud alarm signal! The alarm signal is loud and could cause hearing damage. Do not test the product close to your ears. Use appropriate ear protectors when connecting the CO alarms.

- 1 Select the **Register** menu option on the alarm system.
- 2 Insert two appropriate batteries in the battery compartment of one of the CO alarms (master device). Pay attention that the batteries are inserted the right way around.
- 3 The base unit display indicates that registration has been completed successfully on the alarm system and the CO alarm issues an acoustic signal to confirm the process.
- 4 Connect further CO alarms to the master device (see Interconnecting the CO alarms without an alarm system on Page 12).

Complete a function test following registration!

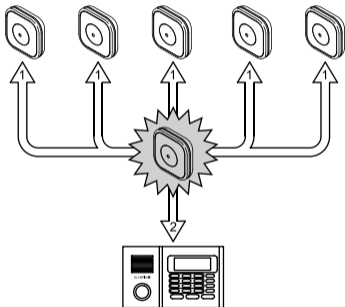
Press the button (4). The function of the alarm signal, signal LEDs and, where appropriate, connected devices are tested.

In the Event of an Alarm

Signalling

The figure illustrates the sequence of the notification of alarms when a CO alarm is triggered.

If you have linked the CO alarms to each other without an alarm system, notification occurs accordingly without an alarm system.



The secondary devices (slaves) issuing the alarm are switched off automatically after 10 minutes independent of the master device.

Installation

Appropriate Installation Locations

A CO alarm monitors a circular area with a diameter of about 4.5 meters.

Therefore, install

- one CO alarm in every bedroom,
- one CO alarm in every room with a heating appliance (pay particular attention to the information below),
- at the height at which most people breath (also applies for rooms without a heating appliance).



Although carbon monoxide has a similar density to the ambient air, it is normally expelled as part of a hot gas mixture and therefore tends to ascend until it cools down.

Assemble CO alarms in rooms containing a heating appliance

- at least 300 mm from a wall and 150 mm from the ceiling,
- at a distance of between 1 and 3 m to potential sources of carbon monoxide

Inappropriate Installation Locations

The CO alarm must not be installed

- near a window or door because fresh air flowing in could cause a delay in alarms being triggered,
- in the direct vicinity of a cooking area,
- in closed containers or concealed areas,
- in the vicinity of extractor fans,
- in wet or damp areas,
- directly above sources of heat,
- outside the approved ambient conditions (see **Technical Data on Page 25**).

Changing the Battery

If you hear two signal tones, it indicates that the batteries in a CO alarm are almost empty. Change the battery in the CO alarm concerned within 30 days.

- 1 Remove the CO alarm from its fitting.
- 2 Change the batteries (observe correct polarity!).
- 3 Replace the CO alarm on the fitting.

When the CO alarm is connected to an alarm system, the alarm system base unit also indicates low battery power in the display.

- 4 On completing the work, initiate a function test on the CO alarm.

Installation Steps

When assembling the CO alarm, pay attention to maintaining at least 100 cm distance to doors, windows or ventilation ducts.



Warning! Risk of serious injuries through damaging cables or pipes! During installation, pay attention to the possibility of cables and pipes running in the walls and ceilings. We are not deemed liable for installation errors. In case of doubt, contact a specialist!

- 1 Ensure that there are no electric cables, gas or water pipes near the installation location.
- 2 Drill two holes, about 30 mm apart, at the intended installation location.
- 3 If necessary, insert dowels in the drill holes and insert the screws enclosed in the product package in the holes so that the CO alarm can be mounted by hooking the screw heads in the fittings on the rear side.
- 4 Install the CO alarm by mounting the fittings on the rear side on the screw heads.
- 5 Disassembly of the CO alarm is performed in the reverse sequence.

Normal mode

When operated below the threshold value, the CO alarm is in Normal mode.

The operating signal LED (3) flashes every 30 seconds. No acoustic alert signal is issued.

Fault mode

If a malfunction has occurred which impairs the functionality of the CO alarm, the CO alarm signals a device fault.

The CO alarm issues a short acoustic signal every 30 seconds; the fault signal LED (2) flashes accordingly.

Check the function of the CO alarm or change the CO alarm.

Alarm mode

If the CO alarm detects a critical concentration of carbon monoxide, it issues an alarm.

The CO alarm issues four short acoustic signals followed by a 5 second pause. The alarm signal LED (1) flashes accordingly.

Other CO alarms linked in the network also issue an acoustic signal after the initial CO alarm has been triggered. The signal issued by the linked CO alarms corresponds to that issued by the initial CO alarm triggered. However, the operating signal LED (3) flashes in the case of the linked CO alarms.

Mute mode

- 1 Press the button (4) to mute an acoustic alarm. Mute mode remains active for 5 minutes.

The alarm signal LED (1) flashes four times followed by a 5 second pause. Other CO alarms linked in the network are also muted after Mute mode has been activated.



Warning! Carbon monoxide is a highly flammable, invisible, odourless gas. Take every alarm seriously. Follow the instructions provided in Section **In the Event of an Alarm on Page 14.**

Low Battery Charge Warning

The CO alarm automatically detects and signals a low battery charge.

In this case, the CO alarm issues two short acoustic signals every 30 seconds. The fault signal LED (2) flashes accordingly. The CO alarm continues to operate without any limitations during this period.

- 1 Change the batteries in the CO alarm within 30 days, install new ones of the same type.




Further information is available in Section **Changing the Battery on Page 17.**

End of Service Life

The CO alarm automatically detects and signals the end of its useful service life.


In this case, the CO alarm issues three short acoustic signals every 30 seconds. The fault signal LED (2) flashes accordingly. The CO alarm continues to operate without any limitations during this period.

 When the CO alarm indicates the end of its service life, replace the CO alarm immediately.

CO Alarm Function Test

Complete a function test of the CO alarm at regular intervals - at least once a month.

1 Press the button (4) for about 1 second. The CO alarm issues four short acoustic signals interrupted by a pause of 5 seconds. The alarm signal LED (1) flashes accordingly.

 If the function test indicates that the CO alarm is not working properly, there is no guarantee that the CO concentration is being monitored adequately. Replace the CO alarm immediately in such cases.


If several CO alarms are linked in a network, the other CO alarms in the network also issue the corresponding acoustic signals. The operating signal LED flashes according to the acoustic signals.

What You Also Need to Know

Please pay attention to this section in order to find out more about the risks of carbon monoxide poisoning or the reaction times of the CO alarm.

Symptoms Following Carbon Monoxide Poisoning

The following table indicates the symptoms which frequently occur according to the exposure to carbon monoxide.

 The symptoms could occur more quickly in the case of unborn children, infants, pregnant women, senior citizens and people with heart or respiratory problems.

Concentration*	Exposure and Symptoms
30 ppm	Maximum permissible concentration to which one may be exposed, uninterrupted, for 8 hours ("maximum allowable concentration")
150 ppm	Slight headache after approx. 1.5 hours
200 ppm	Slight headache, tiredness, dizziness, nausea after approx. 2 to 3 hours
400 ppm	Headache in the forehead after 1 to 2 hours, life-threatening after 3 hours
800 ppm	Dizziness, nausea and cramp after approx. 45 minutes, unconsciousness within 2 hours, fatal within 2 to 3 hours

Concentration*	Exposure and Symptoms
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1600 ppm	Severe headache, dizziness and nausea within 20 minutes, fatal within 1 hour
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3200 ppm	Severe headache, dizziness and nausea within 5 to 10 minutes, fatal within 25 to 30 minutes
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6400 ppm	Severe headache, dizziness and nausea within 1 to 2 minutes, fatal within 10 to 15 minutes
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12800 ppm	Fatal within 1 to 3 minutes
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** The concentration indicates the levels of carbon monoxide in the ambient air in **ppm** (parts per million).*

Reaction Times of the CO Alarm

The following table indicates the reaction times of the CO alarm according to the levels of carbon monoxide.

Concentration*	Time Until CO Alarm is Triggered
Up to 50 ppm	Approx. 2 hours
Up to 100 ppm	Approx. 1 to 1.5 hours
Up to 300 ppm	Approx. 10 to 40 minutes
From 300 ppm	Max. 3 minutes

* *The concentration indicates the levels of carbon monoxide in the ambient air in **ppm** (parts per million).*

Technical Data

Weight	135 g
Dimensions (L x W x H)	90 mm x 90 mm x 29 mm
Frequency (radio)	868 MHz
Alarm volume	85 dB(A)
Batteries	2 x alkaline, AA, 1.5 V (Recommended: Gold Peak GP15A, Raymax LR6)
Standard	EN 50291-1:2010+A1:2012
Ambient conditions	0 °C to 40 °C at 30% to 75% rel. humidity
Service life	10 years

Information on Conformity



Olympia Business Systems Vertriebs GmbH, Zum Kraftwerk 1, 45527 Hattingen hereby declares that this device fulfils the basic requirements and other relevant provisions stipulated in the Directive 2014/53/EC. The CE mark on the device confirms its conformity.



Further information on the Declaration of Conformity for this product is available at <http://productip.com/?f=83849> or scan the QR Code.

Guarantee

The period of guarantee is 24 months. The period of guarantee begins on the date of purchase. It is essential to keep the purchase receipt and original packaging. If a problem arises, please refer to our Return Merchandise Authorisation portal (RMA) in the Support section of our website at

www.olympia-vertrieb.de.

In the case of further queries, please contact our hotline 0180 5 007514 (costs via Germanlandline at time of going to print: 14 ct/min., max. 42 ct/min. via a mobile network).

Information on Disposal



The adjacent symbol indicates that electrical and electronic apparatus and batteries no longer required must be disposed of separate from domestic waste in accordance with legal directives. You are legally obliged to dispose of batteries and battery packs at shops which sell batteries or collection points which provide the corresponding containers. Disposal is free of charge. The symbols indicate that the batteries must not be disposed of in normal domestic waste and that they must be brought to collection points provided by local public waste authorities.

Packaging materials must be disposed of according to local regulations.

Regular Maintenance and Service

Accumulations of dust and cobwebs can impair the function of the CO alarm and cause malfunctions. It is possible that carbon monoxide can no longer be detected.

- 1 Clean the surface of the housing regularly with a soft, slightly moistened, lint-free cloth. Clean the openings in the housing with a brush.
- 2 Clean dust and cobwebs as necessary.
- 3 Complete a function test each time after assembly, a change of batteries and a longer period of absence.



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Subject to change without prior notice.