User Guide

230V MAINS CARBON MONOXIDE ALARM WITH RECHARGEABLE BATTERY BACK-UP

Model K4MCO

Kidde®

CARBON MONOXIDE ALARM

ALARM   POWER   FAULT

MOVE TO FRESH AIR

PUSH TO TEST RESET

Model: K4MCO

ON —— TWIST —— OFF

HEAT   **CARBON MONOXIDE**   SMOKE

SMARTINTERCONNECT

⚠ **WARNING :** This alarm will not operate without Mains power. During a power failure the unit will operate for at least 72 hours on battery back up.
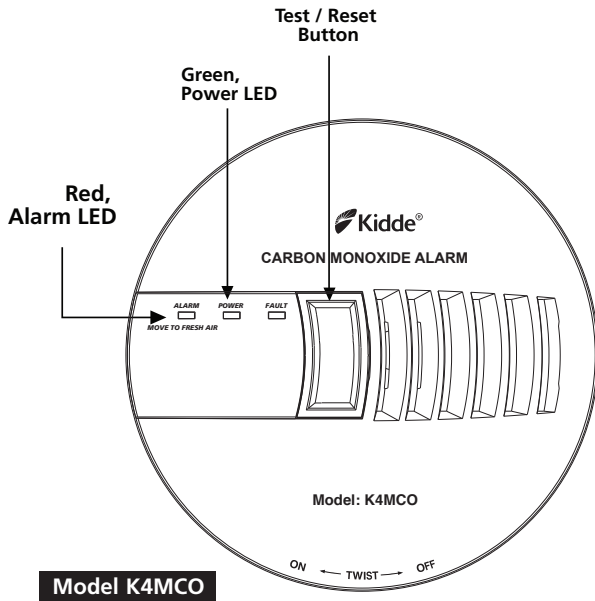
Type B apparatus

bsi
Carbon Monoxide Alarms
KITEMARK™

KM 738897
BS EN 50291-1:2018

CE

UK CA

Contents

1. Diagram of Alarm

Test / Reset Button

Green, Power LED

Red, Alarm LED

Kidde®

CARBON MONOXIDE ALARM

ALARM POWER FAULT

MOVE TO FRESH AIR

Model: K4MCO

ON ← TWIST → OFF

Model K4MCO

2. What is Carbon Monoxide?

POTENTIAL SOURCES OF CO

- **WOOD-BURNING STOVES**
- **GAS BOILERS AND FIRES**
- **GAS HOBS**
- **OIL AND COAL BURNING APPLIANCES**
- **PORTABLE GAS HEATERS**
- **BLOCKED FLUES AND CHIMNEYS**
- **FUMES FROM INTEGRAL GARAGES**
- **BARBECUES**
- **HIGH CONCENTRATIONS OF TOBACCO SMOKE**

This CO alarm is not a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

Carbon monoxide can be produced from poorly burning appliances or from blocked flues and chimneys.

If your alarm has sounded and you have ventilated the room the CO may have dispersed before help arrives. It is crucial that the source of CO is determined and appropriate maintenance carried out.

Carbon monoxide is a cumulative poison. Longterm exposure to low levels may cause symptoms.

This alarm is time-weighted – the higher the level of CO, the sooner it will alarm.

NOTE: The apparatus may respond to brief exhaust gas emissions, for example during the initial start-up of an appliance. Also, hydrogen acts as an interferent and can arise from some battery charging activities and the curing of concrete or cement under certain circumstances. Volatile Organic Compounds (VOCs), e.g. alcohols, which may eventually activate the alarm, can be generated from use of damp-proofing materials or other coatings containing alkylalkoxysilanes.

3. Safety information

To be safe, know the possible sources of CO in your home. Keep fuel burning appliances and their chimneys and vents in good working condition. Learn the early symptoms of exposure, and if you suspect CO poisoning, move outside to fresh air and get emergency help. Your first line of defence is an annual inspection and regular maintenance of your appliances. Contact a licensed contractor or call your local utility company for assistance.

In rented properties your Landlord (or Council/ Housing Association), will have an Emergency Response phone number, and be liable for the regular maintenance of their combustion appliances (Gas/LPG/Oil/Solid Fuel).

This alarm has not been tested specifically for use in caravans or boats. Only CO alarms certified to EN50291-2 are fully approved for this purpose.

Teach children how to respond to the alarm and that they should never play with the unit. This alarm is designed to detect carbon monoxide from any source of combustion in a residential environment.

NOTE: Please thoroughly read this user guide and save the document for future reference and to pass on to any subsequent owner.

IMPORTANT: Additional markings can be found on the back of the unit.

The manufacturer recommends replacing this alarm seven years from the install date on the side of alarm. Product contains sealed in lithium batteries. Removal can be done only by qualied professionals in recycling points.

Seven (7) years after the unit was installed, this unit will automatically alert you that it is time to replace the unit.

This is called "End of Unit Life" mode. To help track the life of your alarm, write the installation date in the space provided on the side of the alarm. A label has been provided that has important information on what to do in case of a CO alarm. Place the label at eye level on a wall near the alarm after it is mounted.

This alarm is not intended to alert hearing impaired individuals.

Alarm levels as defined by EN50291-1:2018

The table below shows the response times at which your CO alarm will sound.

Parts per Million (PPM) of CO	Time until Alarm
50	**60 − 90** Minutes
100	**10 − 40** Minutes
300	Must alarm in less than 3 minutes

CO Advice and Information

The table below shows the effects of different levels of CO poisoning on the body.

Parts per Million (PPM)	Effects on Adults
100	Slight headache, nausea, fatigue (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

NOTE: If at any time your alarm fails to operate correctly (erratic or low sound, for example), or if you require further information, please contact customer support at 0800 917 0722.

Important Safety Information

NOTE: If you recognise any of the above symptoms consult your Doctor immediately.

NOTE: Young children, elderly and pets are more susceptible to the dangers of CO.

NOTE: Your alarm is designed to detect CO gas. It is not designed to detect smoke, fire or other gas such as natural gas.

NOTE: This product is intended for use in ordinary family homes. It is not designed to measure compliance with occupational safety and the HSE.

NOTE: Individuals with certain specific medical conditions may need an alarm that operates below 30ppm. If this applies consult your Doctor.

IMPORTANT: Ensure that all family members are familiar with the symptoms of CO poisoning and how your alarm works.

4. Installation Instructions – Recommended Locations

NOTE: CO alarms should be installed following the guidance of relevant local standards, such as EN 50292.

- Whether the alarm is wall-mounted or ceiling mounted, place the alarm a horizontal distance of between 1 metre and 3 metres from a fuel burning appliance.

- When mounting the alarm on the wall, use an inside wall with the top edge of the alarm at a minimum of 150 mm below the ceiling, and the bottom edge of the alarm within 300 mm below the ceiling. The bottom of the alarm should also be at a level greater than the height of any door or window.

- Locate within hearing distance of bedrooms* and place at sleeping height if a heating appliance is in the bedroom.

- CO alarms in rooms with sloped ceilings should be located on the high side of the room.

- Ceiling mounted alarms should be at least 300 mm from any wall.

- If there is a partition in the room, locate the alarm on the same side of the partition as the potential source.

  * A CO alarm should be installed in all rooms containing a fuel burning appliance. Additional CO alarms should be installed in rooms where most awake time is spent, in every sleeping area, and on every level of the home.

Locations to Avoid

- In the garage. Products of combustion are present when you start your motor vehicle.

- Do not install alarms adjacent to, or directly above, heaters or air-conditioning vents.

- In very humid areas (above 90% RH, non-condensing), such as bathrooms and shower rooms. Do not install directly above a sink, or near dishwashers or washing machines. Moisture or steam can cause nuisance alarms.

- Do not install within 1 m of heating or cooking appliances, measured horizontally.

- In an area where the temperature may fall below 0 ° C or rise above 40 ° C such as garages and unfinished attics.

- Do not install alarms in dusty areas. Dust particles may cause nuisance alarm or failure to alarm.

- In insect-infested areas.

- Within 300 mm of a light fitting, as electronic "noise" generated by the electronics may cause nuisance alarms.

- Do not install in an enclosed space (cupboard) or where the ventilation openings in the unit could be impeded by items such as newspapers, table-cloths, furniture, curtains, etc.

- Do not install next to a door, window, extractor fan, flue, chimney, or any other area where high air flow may occur or the unit may be directly exposed to weather.

- Do not install in locations that are difficult or dangerous to reach for testing or maintenance.

⚠ **WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
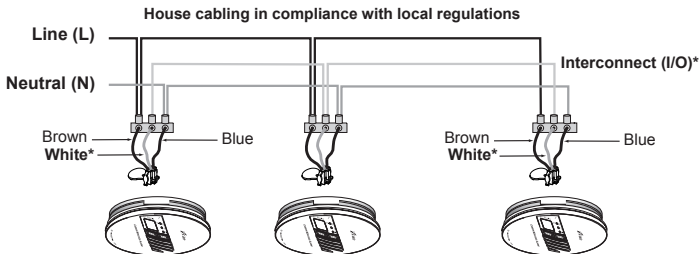
4. Installation Instructions –Supply and Interconnect

Wiring Requirements

- This alarm is designed for installation by a qualified electrician in accordance with local wiring regulations and in regard to relevant building regulations and codes of practice. In addition, the resistance of the interconnect wiring shall be a maximum of 10 ohms.
- An appropriate all-pole disconnection device shall be provided as part of the building installation.
- The maximum wire run distance between the first and last unit in a hardwired interconnected system is 300 m.
- When alarms are hardwire interconnected, all interconnected units must be powered from a single circuit.
- This alarm must be powered by a constant 230V AC, 50Hz supply that is not controlled by any form of switch.
- This alarm interconnects with up to 24 other devices (of which 18 can be initiating) including smoke, CO and heat alarms. (See below). This alarm is not designed to be interconnected with other manufacturer's products, unless otherwise specified.

⚠ **WARNING:** The alarm cannot be operated from power derived from a square wave modified square wave or modified sine wave, inverter. These types of inverters are sometimes used to supply power to the structure in off grid installations , such as solar or wind derived power sources. These power sources produce high peak voltages that will damage the alarm.

Interconnect Wiring

NOTE: Use standard British Standard household cable PVC/PVC 6242Y / 6243Y or equivalent in accordance with local regulations.

⚠ **WARNING:** Turn off the main power to the circuit before wiring. Route the AC supply/interconnect cable into the dry lining box or Kidde surface pattress

- Affix the CO alarm mounting plate to the dry lining box or Kidde surface pattress using suitable screws.
- Using a suitably-rated terminal block, connect the neutral supply to the blue wire of the connector plug and the live supply to the brown wire.
- If interconnecting is required, connect the white wire of the connector plug to the designated interconnect conductor of the 4-core supply cable.
- **NOTE:** Do not use an earth wire for the interconnect conductor.
- **NOTE:** If this is to be a single-station CO alarm, connect the white wire to an unused terminal block.
- Attach the connector plug to the back of the CO alarm. The plug will only fit one way and will snap into place.
- Slide switch on rear of alarm to on position.
- Align alarm with mounting plate and rotate clockwise into place.
- Test CO alarm. See section 5 "Testing".

⚠ **WARNING**: Failure to properly install and activate this alarm will prevent proper operation of this alarm and will prevent its response to CO hazards.

Interconnect Model Capability

Firex	KIDDE	
KF10R	**1SFWR**	Mains Ionisation Alarm with rechargeable battery back-up
KF10	**1SFW**	Mains Ionisation Alarm with alkaline battery back-up
KF20R	**2SFWR**	Mains Optical Alarm with rechargeable battery back-up
KF20	**2SFW**	Mains Optical Alarm with alkaline battery back-up
KF30R	**3SFWR**	Mains Heat Alarm with rechargeable battery back-up
KF30	**3SFW**	Mains Heat Alarm with alkaline battery back-up
	4MCO	Mains CO Alarm with rechargeable battery back-up
	4MDCO	Mains CO Alarm with rechargeable battery back-up, digital display
	K4MCO	Mains CO Alarm with rechargeable battery back-up

5. Using Your Alarm – what the signals mean

Operational Mode	LEDs		Sounder	Unit Status	Action
Normal Operation	Red		None	Normal Operation	None
	Amber				
Alarm	Red	Flashing	4 loud beeps/pause/ 4 loud beeps- repeated	CO detected.	See section
	Amber				
Interconnected CO alarm detects CO	Red	Flashing	4 loud beeps/pause/ 4 loud beeps- repeated	Interconnected CO alarm detects CO.	See section
	Amber				
Interconnected Heat/Smoke alarm detects hazard	Red	Flashing	3 loud beeps/pause/ 3 loud beeps- repeated	Smoke or heat has been detected from an interconnected smoke or heat alarm.	Evacuate the premises according to your escape plan
	Amber				
Error condition -1	Red	Flashing every 30 secs	Chirp/30 secs	Unit has failed.	Replace
	Amber	Flashing every 30 secs			
Error condition -2	Red	ON	Constant loud sound	Unit microprocessor has failed.	Replace
	Amber				
End of Life	Red	Flashing	Chirp twice every 30 seconds	The unit has reached the end of its life.	Replace
	Amber	Flashing twice every 30 secs			
Charging the battery back up	Red		NONE	Battery backup is charging (unit is monitoring for CO).	Nothing
	Amber	Flashing every 15 secs			
Low battery	Red	Flashing every 15 secs	Chirp/15 secs	Back up battery is discharged.	Ensure switch is On at the rear of the unit - if it persists contact customer service.
	Amber	Flashing every 15 secs			

NOTE: If AC mains is connected and active, the Green LED will be on continuous. If Green LED is not on, see Section 6.

5. Using Your Alarm – Cont.

Testing

Each week your alarm should be tested by pressing the test button. The alarm will beep once followed by a brief pause. Then the alarm will sound fully with 4 beeps a pause and then 4 beeps. If the alarm does not sound, or gives erratic or low volume sound, the unit must be replaced.

During testing the red LED will flash.

This confirms that the alarm is powered up and working.

⚠ **WARNING:** DUE TO THE LOUDNESS OF THE ALARM, ALWAYS STAND ABOUT 1 METRE AWAY FROM THE UNIT OR USE EAR PROTECTION WHEN TESTING.

Re-setting the Alarm

If the alarm sounds, the test / reset button will silence the alarm unless it is still detecting dangerous levels of CO.

End of Life Notification

After 7 years of continuous operation, the unit will chirp twice every 30 seconds, and the amber LED will flash twice. The red LED will also be flashing. Unit has reached end of life, and must be replaced. Follow the instructions on the back of the unit to slide the battery switch to "OFF" before disposal.

NOTE: Constant exposures to extreme temperatures and humidities may affect battery life.

6. Mains Power Failure

	LEDs		Sounder	Unit Status	Action
Loss of Mains power	Red	OFF		Unit has no mains power and the battery back up will have limited life	Restore the mains ASAP
	Green	Flashing every 7 secs			
	Amber	OFF			
Low Battery when mains has failed	Red	Flashing every 15 secs	Chirp/15 secs	Back up battery is discharged	Restore the mains ASAP
	Green	Flashing every 7 secs			
	Amber	Flashing every 15 secs			
Battery back up close to discharge	Red	Flashing every 60 secs	Chirp/60 secs	Unit will no longer detect CO	Restore the mains ASAP
	Green	Flashing every 7 secs			
	Amber	OFF			

7. Interconnected systems

Interconnected systems of Kidde Models - 1SFW, 1SFWR, 2SFW, 2SFWR, 3SFW, 3SFWR, 4MCO, 4MDCO, K4MCO		
	CO alarm	**Smoke/Heat Alarm**
Press CO test button	Normal test sequence - 4 loud beeps pause and then 4 loud beeps and so on.	Do not sound.
Press Smoke/Heat Alarm test button	3 loud beeps pause 3 beeps with Red LED flashing	3 loud beeps pause 3 loud beeps with Red LED flashing
Smoke/Heat Alarm Event	3 loud beeps pause 3 loud beeps with Red flashing. The Digital model will display " Fire"	3 loud beeps pause 3 loud beeps with Red flashing.
CO event	Alarms with 4 loud beeps pause 4 beeps and so on.	Do not sound.
Smokes/Heat alarm will overide CO		

Interconnected systems of Kidde, Firex models: KF10, KF10R, KF20, KF20R, KF30, KF30R		
	CO alarm	Smoke/Heat Alarm
Press CO test button	Normal test sequence - 4 loud beeps pause and then 4 loud beeps and so on.	Normal test sequence - 4 loud beeps pause and then 4 loud beeps and so on.
Press Smoke/Heat Alarm test button	3 loud beeps pause 3 beeps with Red LED flashing	3 loud beeps pause 3 loud beeps with Red LED flashing
Smoke/Heat Alarm Event	3 loud beeps pause 3 loud beeps with Red flashing.	3 loud beeps pause 3 loud beeps with Red flashing.
CO event	Alarms with 4 loud beeps pause 4 beeps and so on.	Alarms with 4 loud beeps pause 4 beeps and so on.
Smokes/Heat alarm will overide CO		

8. What to do if Your Alarm Sounds!

Carbon Monoxide Alarm Procedure

⚠ **WARNING:** CARBON MONOXIDE ALARM ACTIVATION INDICATES THE PRESENCE OF CARBON MONOXIDE (CO) AT HIGH CONCENTRATIONS WHICH CAN KILL YOU.

Based on recommends from EN 50292, follow these steps if alarm sounds (4 loud audible pulses followed by a pause for 5 seconds):

1. Keep calm and open all doors and windows. Turn off all fuel-burning appliances if possible. Note: it is possible that outdoor conditions could influence domestic CO alarms (bad traffic pollution in cold weather, for example). In these circumstances, the level of indoor CO might actually increase when doors and windows are opened.

2. If the alarm continues to sound, even after being reset (where appropriate), then evacuate the premises, alerting other occupants to the risk. Leave doors and windows open. Do not re-enter the premises.

3. Get medical help for anyone suffering the effects of CO poisoning, and advise that CO inhalation is suspected.

4. Call Gas Emergency Services: 0800 111 999, or your local Gas Safe Registered Engineer:

> *PHONE NUMBER:*

Never restart the source of the CO problem until it has been corrected. Never ignore the sound of the alarm! If the alarm is sounding, pressing the test/reset button will terminate the alarm. If the CO condition that caused the alert in the first place continues, the alarm will reactivate. If the unit alarms again, it is sensing high levels of CO which can quickly become a dangerous situation.

⚠ **CAUTION:** If there is any question as to the cause of an alarm it should be assumed that the alarm is due to dangerous levels of carbon monoxide and the dwelling should be evacuated.

9. Maintenance of Your Alarm

This is a Mains Alarm. Isolate before removing for decorating. If in doubt contact a qualified electrician.

⚠ **Warning: Do not tamper with the apparatus, as there is a risk of electric shock or malfunction. To keep your alarm in good working order:**

Your Alarm Should be Cleaned at Least Once a Year.

You can clean the interior of your alarm by using compressed air or a vacuum cleaner hose and blowing or vacuuming through the openings around the perimeter of the alarm. The outside of the alarm can be wiped with a damp cloth. Use only water to dampen the cloth, use of detergents or cleaners could damage the alarm.

If the alarm is in Fault mode, the alarm may be in need of cleaning. After cleaning, press the test button. If the fault does not clear, the alarm needs to be replaced.

- Never use detergent or other solvents to clean the unit.
- Avoid spraying air freshener, hair spray, or other aerosols near the alarm.
- Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect CO.
- Keep away from nappy buckets.
- Never attempt to disassemble the unit to clean inside. Altering the alarm in any way may lead to a risk of electric shock or prevent it from functioning correctly. This action will void your warranty.

⚠ **CAUTION:** THIS UNIT IS SEALED. THE COVER IS NOT REMOVABLE!

NOTE: YOUR CO ALARM MUST BE INSTALLED BY A COMPETENT PERSON, AND IS TO BE INSTALLED ACCORDING TO THESE INSTRUCTIONS.

The following substances can affect the sensor and cause false alarms:

Methane, Propane, Iso-butane, Iso-propanol, Ethylene, Benzene, Toluene, Ethyl acetate, Hydrogen Sulphide, Hydrogen, Sulphur Dioxide, alcohol based products, paints, thinners, solvents, adhesives, hair-sprays, aftershaves or perfumes and some cleaning agents.

NOTE: there could be other compounds occurring within a particular household which could cause similar effects.

- Move the Alarm and place in another location prior to performing any of the following:

    Staining or stripping wood floors or furniture

    Painting

    Wall papering

    Using adhesives

Storing the unit in a plastic bag during any of the above projects will protect the sensors from damage. When household cleaning supplies or similar contaminates are used, the area must be well ventilated.

⚠ **WARNING:** REINSTALL THE ALARM AS SOON AS POSSIBLE TO ENSURE CONTINUOUS DETECTION.

10. Troubleshooting

	LEDs		Sounder	Unit Status	Action
Error condition -1	Red	Flashing every 30 secs	Chirp/30 secs	Unit has failed	Replace
	Amber	Flashing every 30 secs			
Error condition -2	Red	ON	Constant lound sound	Unit microprocessor has failed	Replace
	Amber				
End of Life	Red	Flashing	Chirp twice every 30 seconds	The unit has reached the end of its life	Replace
	Amber	Flashing twice every 30 secs			
Low battery	Red	Flashing every 15 secs	Chirp/15 secs	Backup battery is discharged	Ensure switch is ON at the rear of the unit-if it persists, contact customer service.
	Amber	Flashing every 15 secs			

NOTE: If AC mains is connected and active, the Green LED will be on continuous. If Green LED is not on, see Section 6.

11. Product Specifications

Power	230V, 50Hz 30mA max
Sensor	Electrochemical CO Sensor
Storage and Transport Conditions	-20 ºC TO +60ºC, 5 - 95% RH (non-condensing)
Temperature Range	Operating range: 0°C to 40°C
Humidity	Up to 90% relative humidity (RH), non-condensing
Alarm Sound	85dB+ at 3 metres (10ft) @ 3.4 +/- 0.5 KHz pulsing alarm
Size and weight	Weight: 220g Dimensions: 145mm x145mm x 40mm

12. Warnings and Important Notices

⚠️WARNING: THIS CARBON MONOXIDE ALARM IS NOT A SUBSTITUTE FOR INSTALLING AND MAINTAINING AN APPROPRIATE NUMBER OF SMOKE ALARMS IN YOUR HOME. THIS ALARM WILL NOT SENSE SMOKE, FIRE, OR ANY POISONOUS GAS OTHER THAN CARBON MONOXIDE. FOR THIS REASON YOU MUST INSTALL SMOKE ALARMS TO PROVIDE EARLY WARNING OF FIRE AND TO PROTECT YOU AND YOUR FAMILY FROM FIRE AND ITS RELATED HAZARDS.

⚠️WARNING: THIS PRODUCT IS INTENDED FOR USE IN ORDINARY INDOOR LOCATIONS OF FAMILY LIVING UNITS. IT IS NOT DESIGNED TO MEASURE COMPLIANCE WITH COMMERCIAL AND INDUSTRIAL STANDARDS. THIS ALARM IS NOT SUITABLE FOR INSTALLATION IN HAZARDOUS LOCATIONS . INDIVIDUALS WITH MEDICAL PROBLEMS MAY CONSIDER USING WARNING DEVICES WHICH PROVIDE AUDIBLE AND VISUAL SIGNALS FOR CARBON MONOXIDE CONCENTRATIONS UNDER 30 PPM.

IMPORTANT: THIS CARBON MONOXIDE ALARM IS DESIGNED TO DETECT CARBON MONOXIDE FROM ANY SOURCE OF COMBUSTION INCLUDING IMPROPER OR MALFUNCTIONING APPLIANCES. THE INSTALLATION OF THIS DEVICE SHOULD NOT BE USED AS A SUBSTITUTE FOR PROPER INSTALLATION, USE AND MAINTENANCE OF FUEL BURNING APPLIANCES INCLUDING APPROPRIATE VENTILATION AND EXHAUST SYSTEMS

⚠️WARNING: THIS ALARM WILL NOT WORK WITHOUT POWER. THIS ALARM REQUIRES A CONTINUOUS SUPPLY OF POWER.

⚠️WARNING: THIS UNIT IS NOT A SMOKE ALARM. IT WILL NOT SENSE SMOKE . FOR EARLY WARNING OF FIRE YOU MUST INSTALL SMOKE ALARMS.

IMPORTANT: IF ANY FAULT SIGNALS OCCUR, CONTACT THE MANUFACTURER OR SUPPLIER AND DO NOT CONTINUE USING THE ALARM.

⚠️WARNING: THE DEVICE CANNOT WARN AGAINST THE CHRONIC EFFECTS OF EXPOSURE TO CARBON MONOXIDE OR PROTECT INDIVIDUALS WHO ARE AT SPECIFIC RISK.

⚠️WARNING: ALTERING THE ALARM IN ANY WAY MAY LEAD TO A RISK OF ELECTRIC SHOCK OR PREVENT IT FROM FUNCTIONING CORRECTLY.

⚠️CAUTION: THIS ALARM WILL ONLY INDICATE THE PRESENCE OF CARBON MONOXIDE AT THE SENSOR. CARBON MONOXIDE MAY BE PRESENT IN OTHER AREAS.

This alarm does not prevent CO from occurring, nor can it solve any existing CO problem.

⚠️WARNING: THIS DEVICE IS DESIGNED TO PROTECT INDIVIDUALS FROM ACUTE EFFECTS OF CARBON MONOXIDE EXPOSURE. IT WILL NOT FULLY SAFEGUARD INDIVIDUALS WITH SPECIFIC MEDICAL CONDITIONS. IF IN DOUBT, CONSULT A MEDICAL PRACTITIONER.

This alarm has not been investigated for carbon monoxide detection below 50 PPM.

13. Service and Warranty

Seven-Year Limited Warranty

KIDDE SAFETY EUROPE LTD warrants to the original purchaser that the enclosed alarm (battery included) will be free from defects in material and workmanship or design under normal use and service for a period of seven years from the date of purchase. The obligation of KIDDE SAFETY EUROPE LTD under this warranty is limited to repairing or replacing the alarm or any part which we find to be defective in material, workmanship or design (part replacement only, no installation), free of charge to the customer, upon sending the alarm with proof of date of purchase, postage and return postage prepaid, to distributor: Warranty Service Department, Kidde Safety Europe Ltd, Ash House, Littleton Road, Ashford, TW15 1TZ, UK. Before shipping, please slide the battery switch to the "OFF" position as shown on the back of the unit.

This warranty shall not apply to the alarm if it has been damaged, modified, abused or altered after the date of purchase or if it fails to operate due to improper maintenance or inadequate A.C. or D.C. electrical power.

THE LIABILITY OF KIDDE SAFETY EUROPE LTD OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS ARISING FROM THE SALE OF THIS ALARM OR UNDER THE TERMS OF THIS LIMITED WARRANTY SHALL NOT IN ANY CASE EXCEED THE COST OF REPLACEMENT OF THE ALARM AND, IN NO CASE, SHALL KIDDE SAFETY EUROPE LTD OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS BE LIABLE FOR CONSEQUENTIAL LOSS OR DAMAGES RESULTING FROM THE FAILURE OF THE ALARM OR FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE COMPANY'S NEGLIGENCE OR FAULT.

This warranty does not affect your statutory rights.

14. Environmental Protection

ENVIRONMENTAL PROTECTION
Waste electrical products should not be disposed of
with household waste. Please recycle where facilities exist.
Check with Local Authority or Supplier for recycling advice.

Product contains sealed in lithium batteries.
Removal can be done only by qualified professionals in recycling points.

Kidde Helpline (UK) 0800 917 0722 / (Ireland) 1800 818 601
Emergency Numbers:
Gas Emergency Services 0800 111 999
HETAS (Solid Fuel Emergency) 0845 634 5626
Oftec (oil) 0845 658 5080

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