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**Drawing No:** GN5213

**Revision:** 3 (D1)

**Drawn By:**

Tschaka R-M, Sept 2022

**Title/Description:**

User Manual

**Material:** Saddle Stitching

60GSM Wood Free Paper

**Used On / Used For:**

NM-CO-10X-INT

**Size:**

W - 121mm / H - 110mm

**Supplier:**

PACE

**Print Colours:**

Black

**APPROVALS:** Content / Product Info / Certification / Messaging / Design

**Notes & Information:**

R3: Cert update

**FireAngel®**

**NM-CO-10X**

**TEST YOUR ALARM REGULARLY**

EN

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The original English version of the manual, from which these translations were taken, has been independently approved. In case of discrepancy with translated parts, FireAngel Safety Technology Limited confirms that the English guide is true and correct.

#### Positioning



This CO alarm is suitable to use in domestic premises (caravan holiday homes), caravans, motor caravans & boats.

**NOTE:** This alarm must be installed by a competent person, able to install according to the instructions.

#### Where in the room should I place the alarm?

Alarms located in the same room as a fuel-burning appliance should be:

- at a horizontal distance of between 1m & 3m from the potential source.
- located on the same side of a partition as the potential source.
- located at the high side of the room, if sloped ceilings are present.

If on a wall the alarm should be:

- close to the ceiling;
- at a height greater than any door or window;
- at least 150mm from the ceiling.

If the alarm is on the ceiling it should be at least 300mm from any wall & any ceiling obstruction e.g. light fittings

Additional alarms may be installed to ensure that adequate warning is given for occupants in other rooms, by locating alarms in:

- Remote rooms in which the occupant(s) spend considerable time whilst awake and from which they may not be able to hear an alarm from apparatus in another part of the premises, and;
- Every sleeping room.

Alarms located in sleeping rooms and in rooms remote from a fuel-burning appliance should be located relatively close to the breathing zone of the occupants.

#### Caravans & Boats

Caravans & boats have additional risks due to the presence of other vehicles, engines, generators or barbecues, however this does not change the basic guidance on locating the alarm. Caravans & boats should have an alarm in the same room as any fuel-burning appliance, located in accordance with advice above. If the caravan has a single living space, one alarm is sufficient. However, any sleeping accommodation which is in a separate room from the fuel-burning appliance should also contain an alarm.

The two most important considerations when positioning your alarm are:

- Not to place the alarm directly above a source of heat or steam;
- Positioning the alarm at a distance of 1 – 3 m from the nearest edge of the potential source.

#### Deactivating your alarm

If you are travelling or storing your alarm, the unit can be deactivated by refitting the disabling tag into the small holes on the underside of the alarm. You can check the product is disabled by pressing the test button.



**Store the disabling tag on page 71 of this manual.**

#### How Carbon Monoxide Can Affect You & Your Family

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

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

Your CO alarm should be tested regularly (ppm) in the

35ppm

200ppm

400ppm

800ppm

If you suspect a gas leak & windows are open, leave the premises immediately.

#### Common Symptoms

- Oil & gas
- Portable gas
- Oil or solid fuel
- Gas or paraffin
- Barbecue
- Clogged chimneys
- Wood or coal
- Cigarettes
- Gas appliances
- Any fossil fuel

This CO alarm should be installed in the proper installation positions (appliance, furnace, boiler, etc. systems), not in the following locations:

#### What To Do In An Emergency

**WARNING:** If you detect levels of carbon monoxide (CO) alarm, further action should be taken by residents for their own safety & the proper authorities should be contacted.

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Your CO alarm monitors levels of CO as parts per million (ppm) in the air surrounding the detector.

35ppm	The maximum allowable concentration for continuous exposure for healthy adults in any 8 hour period, as recommended by the Occupational Safety & Health Administration
200ppm	Slight headache, fatigue, dizziness, nausea after 2 - 3 hours.
400ppm	Frontal headaches within 1 - 2 hours, life threatening after 3 hours.
800ppm	Dizziness, nausea & convulsions within 45 minutes. Unconsciousness within 2 hours. Death within 2 - 3 hours.

If you suspect CO may be affecting you, open the doors & windows to ventilate. Turn off your appliances & leave the premises.

### Common Sources of CO

- Oil & gas boilers
- 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

This CO alarm should not be seen as a substitute for the proper installation, use & maintenance of fuel-burning appliances (including appropriate ventilation & exhaust systems), nor the sweeping of chimneys.

### What To Do In The Event Of An Alarm

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

- Keep calm; open doors & windows to ventilate the property.
- Stop using all fuel-burning appliances & if possible, turn them off.
- Evacuate the property, leaving doors & windows open.
- Ring your fuel supplier on their emergency number. Write their number here:

- Depending on the level of CO detected, it can take up to 10 minutes to clear the sensor and the alarm to stop. Do not re-enter the property until the alarm has stopped.
- Get medical help immediately for anyone suffering the effects of CO poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected.
- Do not use appliances again until they have been checked by an expert.

### Understanding the Product's Indicators

The higher the concentration of CO detected, the quicker the alarm will respond. When sufficient CO is detected a loud audible signal of 4 chirps repeated (85 dB at 3m) will sound & the Alarm LED will flash red every second. The alarm will sound:

Between 60 & 90 mins when exposed to 50ppm of CO.  
Between 10 & 40 mins when exposed to 100ppm of CO.  
Within 3 mins when exposed to 300ppm or more of CO.

### Alarm Silence

You can temporarily silence the alarm if the CO level is less than 50ppm. Ventilate the property then press the test button. The alarm will stop and the Alarm LED will flash red every 10 seconds. Silence mode will last for 10 minutes. If the CO level remains too high or the CO level rises before the 10 minutes end, the alarm will trigger again.

### Fault / End of Life Signal:

The alarm constantly checks the settings of its sensor & circuitry. If the battery power is low, the alarm will chirp once per minute & the Fault LED will flash amber.

If the amber LED flashes at a separate time from the chirp, a fault is indicated.

# Obsah je uzamčen

**Dokončete, prosím, proces objednávky.**

**Následně budete mít přístup k celému dokumentu.**



**Proč je dokument uzamčen? Nahněvat Vás rozhodně nechceme. Jsou k tomu dva hlavní důvody:**

- 1) Vytvořit a udržovat obsáhlou databázi návodů stojí nejen spoustu úsilí a času, ale i finanční prostředky. Dělali byste to Vy zadarmo? Ne\*. Zakoupením této služby obdržíte úplný návod a podpoříte provoz a rozvoj našich stránek. Třeba se Vám to bude ještě někdy hodit.

*\*) Možná zpočátku ano. Ale vězte, že dotovat to dlouhodobě nelze. A rozhodně na tom nezbohatneme.*

- 2) Pak jsou tady „roboti“, kteří se přiživují na naší práci a „vysávají“ výsledky našeho úsilí pro svůj prospěch. Tímto krokem se jim to snažíme překazit.

A pokud nemáte zájem, respektujeme to. Urgujte svého prodejce. A když neuspějete, rádi Vás uvidíme!