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Drawing No: GN6763
Revision: 1 **Draft:** 4
Drawn By: Hannah B
Date: 12/08/2026

Used On / Used For:
FA8827BW-R BLE CO
Size:
W - 420mm / H - 297mm

Title/Description:
User Manual
Material: Refer to MS0032
or 60GSM Wood Free Paper

Supplier:
Siterwell
Print Colours:
BLACK

Notes & Information:

R1 - initial production

APPROVALS:

Content
Product Info
Certification
Messaging
Design
Customer support
Mechanical



FA8827BW CARBON MONOXIDE ALARM - USER MANUAL

For the earliest warning, we recommend this CO alarm is fitted in a room where the temperature is between -10°C (14°F) and 40°C (104°F).
Usage outside the temperatures stated above will reduce product life.



This CO alarm is suitable for use in domestic premises (caravan holiday homes), caravans, motor caravans and boats. This alarm must be installed by a competent person, able to install according to the instructions. Please keep this user manual in a safe place.

Technical Support

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Note: This user manual is also available in large text and other formats.

Please email: technicalsupport@fireangeltech.com or call 0330 094 5830 for further information.



GN6763R1

1. POSITIONING

In which room should the alarm be installed?

Your carbon monoxide (CO) alarm is suitable for the landing, hallway, bedroom, living room, dining room and kitchen.

Common sources of CO include: oil and gas boilers, portable generators, oil or solid fuel cookers, gas or paraffin heaters, barbecues, clogged chimneys, wood or gas fireplaces, any gas or fossil fuel-burning appliance and even adjoining properties.

Do not install the CO alarm in areas which are excessively dusty, dirty or greasy. Dust, grease and household chemicals can affect the performance of the sensor.

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 and 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.

For further guidance on siting and mounting of the apparatus consult

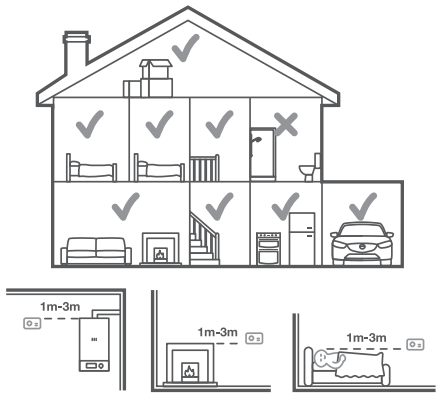
EN 50292. Installation of the alarm should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

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.



2. INSTALLATION

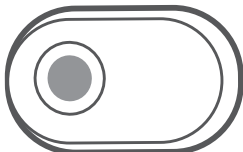
1. Alarm activation

To activate your CO alarm attach the base plate.

Wait around 1 minute for the green LED to flash to confirm the device is active.

Press the Test / ◀ button to test the alarm. The alarm will sound.*

(*The alarm will not sound before the 1 minute activation period is complete.)



1 min



NOTE: For user convenience, the alarm will sound at a low volume when the Test / ◀ button is pressed. To hear the alarm at full volume* double press the Test / ◀ button.

*85dB at 3m

2. Alarm installation

Freestanding on a shelf

Your alarm has been designed to stand freely on a shelf or to be mounted on a wall (see below).

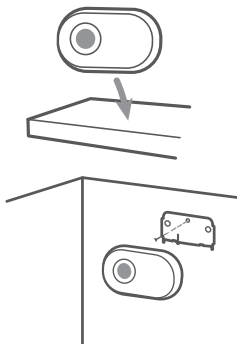
Mount on a wall with a fixing pin

Position the optional Pull-Up tab on the back of the base plate. Carefully hammer the nail through the central hole in the bracket into the wall until the CO alarm is secured into place.

Mounting on a wall:

Where wall mounting is required, secure the device using 2 x 3.5mm (No 6) CSK screws (not included).

1. Drill holes into the wall - 56mm apart - see template below.
2. Insert the plastic wall plugs and screw in the screws. Slide the alarm into position. Position the optional Pull-Up tab on the back of the base plate, screw the base plate onto the wall and slide the alarm onto the base plate.
3. Check the alarm is secure.



NOTE: The FA8827BW CO alarm will not operate unless its base plate is attached. FA8827BW is supplied with an optional anti-tamper lock. To activate this, knock out the plastic tab next to the lock symbol on the back of the alarm. (Ensure the hole is neatly made to lock the alarm securely.) To unlock the FA8827BW, insert a small screwdriver into the hole at the bottom of the device and slide the unit off the base plate.



3. CO ALARM AWARENESS

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.

ALARM

When dangerous levels of CO are detected a loud audible signal of 4 chirps repeated (85 dB at 3m) will sound & a red warning flash pattern will display every second. The higher the concentration of CO detected, the quicker the alarm will respond.



The alarm will sound:

Alarm sound: ◀◀◀ --> ◀◀◀

Red flash: ☆ --> ☆

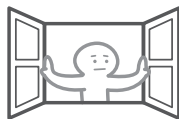
Between 60 & 90 mins when exposed to **50ppm** of CO.

Between 10 & 40 mins when exposed to **100ppm** of CO.

Within 3 mins when exposed to **300ppm** or more of CO.

VENTILATE

Keep calm; open doors & windows to ventilate the property. Stop using all fuel-burning appliances and, if possible, turn them off.



EVACUATE

Evacuate the property immediately.



RING FOR HELP

Ring your fuel supplier on their emergency number. Do not use appliances again until they have been checked by an expert.

Get medical help immediately for anyone suffering the effects of CO poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected.

Write your fuel supplier's emergency number here:

Icon Key

(Icon key located on the back of the alarm.)



Ventilate



Fault / Low Battery



Warning: CO



Operation

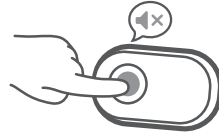
NOTE: The 'Operation' LED flashes once per minute to indicate the device is active.

ALARM SILENCE

WARNING: If the cause of an alarm is unknown, ventilate and evacuate your property before using this feature.

Press the Test / ◀ button.

The sounder will stop and enter into Silence mode for 5 minutes.



NOTE: The alarm will not silence if more than 150ppm has been detected.

Silence mode can only be activated once (until CO returns to negligible levels).

Once the Silence mode is enabled, if the CO level rises above 150ppm the device will exit Silence mode and continue to sound.

After 5 minutes if the CO level still high the device will continue to sound.

VENTILATE & EVACUATE

EARLY WARNING INDICATOR

Your alarm will sound an early pre-alarm warning when low levels of CO have been detected.

Alarm sound: ◀! --> ◀!◀!
Amber flash: ☆ --> ☆

The Early Warning pattern is 1 short chirp then 1 long chirp & an amber warning flash pattern every 25 seconds.

To silence the Early Warning, press the Test / ◀ button. The sounder will stop and enter into Early Warning Silence mode for 12 hours - the amber light will continue to flash. If a higher CO level is detected after this period the alarm will sound again.

NOTE: To exit Silence mode, press the Test / ◀ button again.

The Early Warning will sound when the CO levels in the table are detected over a sustained time period:

Time	4 hours	35 mins	20 mins
CO	10-20ppm	20-30ppm	30+ppm

VENTILATE & CALL A TECHNICIAN

ALARM IN ABSENCE

When a CO alarm has occurred in your absence, your device will notify you so that you can take appropriate action at the earliest opportunity.

If the device is not silenced during an alarm it will continue to sound until the CO level has reduced to below 38ppm.

After which the device will flash the red warning light twice every 20 seconds to indicate that dangerous CO levels have been detected in your absence.

Red flash: ☆☆ --> ☆☆

The red warning light will continue to flash for 7 days if the Test / ◀ button is not used to cancel it.

VENTILATE & CALL A TECHNICIAN

4. MAINTENANCE

Test the alarm every month. Press the Test button. The alarm will sound.

If the alarm does not sound, contact Technical Support.

NOTE: The above method fully tests all elements of the alarm. Additional but non-essential testing may be conducted using the Sense-CO Test mode and CO gas. For information and instructions on the correct method of gas testing your alarm visit www.fireangeltech.com/sense-co

- Do not use any other test method except the process described in this manual.
- Do not tamper with the alarm as this could cause electric shock or malfunction.
- Vacuum your alarm every 3 months.
- Do not use cleaners or solvents.
- Do not paint the alarm.

Replace the alarm every 10 years. The replacement date can be found next to the 'Replace By' marking on the alarm.



5. SYSTEM STATUS INDICATORS

Your CO alarm constantly checks the accuracy of its sensor and circuitry. All alarms must indicate when there is a fault or if the battery power is low (identified by the Ⓢ icon).

If any of the settings are found to be incorrect or if the batteries become low, the device will sound an audible chirp and display an amber flash pattern for up to 30 days.

IMPORTANT: This does NOT mean that the alarm has detected carbon monoxide.

If there is a fault, your CO alarm will display the following fault indication patterns.

	Audible pattern	Amber LED/LCD	Action required
Low battery	1 beep/min	1 amber flash/min	Replace alarm within 30 days
Fault	2 rapid beeps/min	2 rapid amber flashes/min	May not detect CO - replace immediately
End of life	3 rapid beeps/min	3 rapid amber flashes/min	May not detect CO - replace immediately

If your alarm is within warranty, contact Technical Support.

Your CO alarm must be replaced immediately if there is a fault or the device indicates End of Life. An alarm with a fault or signalling End of Life may not detect a CO leak.

6. SLEEP EASY™ SILENCE FEATURE

If a low battery warning 'chirp' occurs at night it may be inconvenient to replace the batteries or alarm. You can silence the 'chirp' by pressing the Test / 🔊 button. The alarm will silence for 8 hours and the amber LED will continue to flash.

If your alarm is signalling low batteries, replace the alarm. When the device is still within warranty, contact our Technical Support team.

NOTE: You can silence your device a maximum of 10 times.

Night Time Sensing

Your CO alarm automatically detect night hours and will reduce the brightness of the power LED during the nighttime.

Where a low battery 'chirp' has already been silenced during the day, your device automatically detects nighttime and reactivates the silence period for another 8 hours.

NOTE: During Sleep Easy mode the unit still detects CO and will alert you to any new faults.



7. BLUETOOTH WIRELESS INTERLINK

The FireAngel Bluetooth range is designed to be wirelessly interlinked with up to 20 products within the range. They are not designed to communicate with wireless alarms from other ranges or manufacturers. These alarms need to be 'paired' or interlinked in order to communicate with each other. If one alarm sounds, all alarms will sound. Simply press the Test / 🔊 button to locate the alarm initially triggered.

Bluetooth technology is a wireless network technology designed for low-power, reliable connectivity. It eliminates the need for interconnecting wires around a property making future system modifications easy and cost effective.

IMPORTANT: Obstructions such as steel reinforcement in concrete could block or impede the wireless signal. While the wireless range is >80m in clear air / clear line of sight, the effective range may be reduced by walls and other obstructions in the building. It is recommended not to exceed 15m as the maximum distance between alarms in a network.

8. DIAGNOSTIC FUNCTION AND INTERLINKING WITH MOBILE APP

FireAngel recommend using the **Angel Connect** app to interlink your alarms. If the network is initially setup manually, it will need to be reset in order to then use the mobile app.

1. Scan the QR code to download the **Angel Connect** app. The app is also available from the App Store or Google Play Store.

2. Ensure the devices are fully installed and powered, and are in Bluetooth pairing mode (either primary or secondary pairing mode - see below).

3. Open the **Angel Connect** app and follow the on screen instructions to add and connect devices.

IMPORTANT: Ensure that the devices are in Bluetooth pairing mode and that Bluetooth is enabled on your mobile phone. Otherwise, the **Angel Connect** app will not be able to establish a connection.

4. The app can be used to review and download diagnostic information and reports.

5. This alarm can be connected to the FA8080BW gateway. If a gateway is available, please complete gateway pairing first, then add the alarm devices to ensure correct association between the gateway and Secondary devices.

When installed alongside the FireAngel FA8080BW Gateway: alarm events can be sent to the app as push notifications, enabling remote alerts and control.

When installed without a Gateway: you must open the app and connect to the device via Bluetooth to view alarm status or silence the alarm.



9. INTERLINKING MANUALLY

Install alarms as described earlier.

The product has two modes when pairing the Bluetooth manually, between alarms: Primary mode and Secondary mode.

Primary mode: this device will pair with other devices. The red LED will remain on. In this mode, the device actively searches for and connects to other devices in Secondary pairing mode.

Secondary mode: this device will be paired by the Primary device or the **Angel Connect** app. The red LED will flash slowly. In this mode, the device enters pairing standby and waits to be connected by a primary device.

How to enter pairing mode:

1. Install the alarm on its base plate. It will automatically enter Secondary mode.

2. If your device has been installed on its base plate for sometime, then press the Test / 🔊 button three times, in quick succession. The alarm will then enter Secondary mode.

If the device is not successfully paired within 30 seconds it will automatically return to standby mode.

Multi-device network set-up

1. Choose a device to become the Primary. Press the Test / 🔊 button on this device five times, in quick succession to make it enter Primary mode, the LED will remain on. This device is now ready to connect to other devices.

2. For each additional device, enter Secondary mode using the methods above. Once successfully added, the Secondary device will chirp once to signal it has been successfully paired and return to standby mode. The Primary device will also chirp as confirmation and remain in Primary mode (red LED continuously on).

3. To add more alarms to this network, repeat step 2 above for each device.

Testing the Network

Press the central test button on any successfully paired alarm. All successfully connected devices will sound and after 8 seconds, these devices will flash red LEDs simultaneously twice per second for a total of 5 minutes. This provides sufficient time to check each alarm individually and confirm that all devices in the network have been tested successfully.

Exiting Pairing Mode

Alarms will automatically exit Pairing mode: Primary mode after 5 minutes and the Secondary mode after 30 seconds. To exit manually, you can press the Test / 🔊 button once to exit the pairing.

Resetting the Bluetooth Network

If reconfiguration is needed, press the button three times, in quick succession and then press and hold the button for 12 seconds. During this process, the red LED will flash rapidly. The device will chirp once to indicate that the Bluetooth network has been reset.

10. TECHNICAL SPECIFICATION

Model: FA8827BW

Operating Temperature Range: -10°C (14°F) to 40°C (104°F)

Operating Humidity Range: 30 - 90% RH

Alarm Sound Level: 85dB at 3m

Sensor Life: 10 Years - Replace unit after 10 years of operation

Battery Life: 10 year sealed for life battery - Replace device after 10 years of operation

Bluetooth Wireless Frequency: 2402-2480 MHz

Certified to: Your carbon monoxide alarm is designed to continuously monitor for CO. Its response times meet the requirements of the European standard EN 50291-1: 2018 & EN 50291-2: 2019.

CO Sensor Rate: 56 seconds.

WARNING: Alarms conforming to this standard may not protect people who are at additional risk from CO exposure due to age, pregnancy or medical condition. If in doubt, consult your doctor.

A carbon monoxide alarm is not a substitute for a smoke alarm or a combustible gas detector.

WARNING: Prolonged exposure to a sounding alarm near your ears may damage your hearing.

Prolonged exposure to extreme high or low temperatures may reduce the life of the batteries.

For Technical Support reference, please write the alarm batch number and install date below:

Batch number: [X][X][X][X][X][X] - [X][X][X][X][X][X]	Install date: [X][X] / [X][X] / [X][X][X][X]
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11. WARRANTY AND DISPOSAL

FireAngel Safety Technology Limited warrants to the original purchaser that its enclosed CO alarm be free from defects in materials and workmanship under normal residential use and service for a period of 5 (five) years from the date of purchase. Provided the product is sent back to FireAngel Safety Technology Limited with proof and date of purchase, FireAngel Safety Technology Limited hereby warrants that during the 5 (five) year period commencing from the date of purchase FireAngel Safety Technology Limited, at its discretion, agrees to replace the unit free of charge. The warranty on any replacement alarm will last for the remainder of the period of the original warranty in respect of the alarm originally purchased – that is from the date of original purchase and not from the date of receipt of the replacement product. FireAngel Safety Technology Limited reserves the right to offer an alternative product similar to that being replaced if the original model is no longer available or in stock.

This warranty applies to the original retail purchaser from the date of original retail purchase and is not transferable. Proof of purchase is required.

This warranty does not cover damage resulting from accident, misuse, disassembly, abuse 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 FireAngel Safety Technology Limited'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. FireAngel Safety Technology Limited will not recognise any changes to this warranty by third parties. FireAngel Safety Technology Limited 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 for 5 (five) years.

This warranty does not affect your statutory rights. Except for death or personal injury, FireAngel Safety Technology Limited shall not be liable for any loss of use, damage, cost or expense relating to this product or for any indirect, or consequential loss, damages or costs incurred by you or any other user of this product.

DISPOSAL

 Waste electrical products should not be disposed of with your other household waste. The alarm is ideally suited for disposal within the waste electronic and electrical equipment (WEEE) recycling scheme.
 Please recycle where facilities exist. Check with your local authority, retailer or contact our Technical Support team for recycling/disposal advice as regional variations apply.

The batteries should always be removed before disposal.

Do not attempt to open. Do not burn.