

		3			
	 What is Carbon Monoxide? Many people are killed each year, and many more suffer ill health from Carbon Monoxide (CO) poisoning. CO is an invisible, odorless, tasteless and extremely toxic gas. It is produced by appliances and vehicles burning fuels, such as coal, oil, natural/bottled gas, paraffin, wood, petrol, diesel, charcoal etc. CO is absorbed by red blood cells in the lungs in preference to oxygen - this results in rapid damage to the heart and brain from oxygen starvation. High levels of CO in a house can be caused by: Incorrectly or poorly installed fuel-burning appliances. 				
	 Blocked or cracked chimneys/flues. Blocked vents or draft-proofing which makes areas with fuel burning appliances 				
	or fireplaces airtight. • Engines of cars, lawnmowers etc. left running in confined spaces				
	 Portable paraffin or gas heaters in badly ventilated rooms. 				
		7			
nmediate vicinity	Unsuitable Locations for CO Alarms Do not place the CO Alarm in any of the following areas:				
nts but excluding	 In the immediate vicinity of a cooking appliance (keep it at least 3 feet horizontally from it). Outside the building. In an enclosed space (e. g. in or below a cupboard). 				
tandards. ordance with the					
I Fire Protection					
	5. Directly above	a sink stove-top or oven.			
_	 Next to a door, Next to a ceilir 	window, air vent or anywhere that it could ng or exhaust fan or air conditioning vents	be affected by drafts.		
	8. Over heat soul	rces such as radiators or hot air vents.	ro		
) pom	10. In an area whe	ere the temperature could drop below 40°	F or rise above 100°F.		
) © Bedroom	11. Where dirt or of 12. Where it could	dust could block the sensor. be easily knocked or damaged, or where it	t could be accidentally		
	turned off or re	emoved.	be exposed to water		
Room	splashes, drip	bing or condensation (e.g. above an electr	ic kettle).		
ement Furnace)	14. Near paint, thi	nners, solvent tumes or air tresneners.			
		11			
		PILLAR			
		FLAT BLADE			
	Figure 7. Breaking Off Tamper proof Pillar				
ı					
the small pillar er catch release		TAN	IPER CATCH RELEASE IN		
Alarm from wall 9) to release the		BRE	EAKING OFF PILLAR		
e 10. If necessary	Figure 8. Tamper Catch in ACTIVATE position.				
#4 1/4 inch self e mounting base	The Carbon Monoxide Alarm checks for CO gas every 4 seconds and when exposed to the CO gas. The red light will flash (as per Table 2) to confirm that it				
	is detecting the CO gas.				
		15			
_		Red Light (Pre-Alarm)	Sounder (Alarm)		
	CO Gas Level	0#*	0#		
	Approx. 30 ppm	1 flash every 3 seconds	on within 60 - 240 min		
,	Approx. 150 ppm	1 flash every 2 seconds	on within 10 - 50 min		
N	Approx. 400 ppm	1 flash every 1 second	(typical 30 min) on within 4 - 15 min		
	Table 2. CO Alar	n Response	(typical 9 mm)		
	Warning!				
	Actuation of your CO Alarm indicates the presence of carbon monoxide (CO) which can KILL YOU. If an alarm signal sounds:				
	1. Operate reset/ Silence button (only operational at concentrations of [less than] approximately 400 ppm)				
	 Call your local Fire Department or 911 Immediately more to freeb air antidage or business of a freeb air antidage. 				
	Infine under y move to tresh air – outdoors or by an open door/ window. Do a head count to ensure that all persons are accounted for. DO NOT re-enter the premises until the first reponders have arrived the premises have been aired.				
	premises until the first responders have arrived, the premises have been aired out and your Alarm returns to its normal condition.				

16	17	18	19 Testing
Pre-Alarm	CO Gas Level Red Light Response	Monitoring and Testing Summary	Frequent testing of the Alarm is a requirement to ensure its power is present and the
Table 2. This helps locate CO leaks as the CO Alarm gives an indication straight	24 Hours On Demand (Button Press)	e Bed Amber Green	Alarm is functioning. The 2GIG-C08-345 Carbon Monoxide Alarm can be tested by rotating the Alarm clockwise on the mounting base (Figure 12). This activates the on/
away. (Without this feature the CO level would need to be at 43ppm CO for typically 72 minutes for an alarm sound to be given). Note the Pre-Alarm signal may be	approx. 150 ppm 2 flashes every 50 sec. 2 flashes	Status LED LED LED Sounder Result (Alarm) (Fault) Power	off switch. The (3) three indicator lights will immediately flash in sequence to show that
triggered by CO coming for example, from cooking with gas, from car engines or	approx. 400 ppm 4 flashes every 50 sec. 4 flashes	Standby No visual or audible indication if unit is OK	power light is not illuminated during standby. It will flash green when the test button is
from nearby barbecues. This is usually not a concern, unless the pre-alarm signal persists until the Alarm sounds and the CO source is unknown.	Table 3. CO Alarm Memory Indicators	Unit OK (Button Test) Off Off On On	pressed to indicate that power is present and alarm is functioning.
✓ Note: The CO Alarm may sound if cigarette smoke is blown into it, or aerosols	Monitoring	Low Battery Off 1 flash Off 1 beep	1. After the system is installed.
are released nearby.	The CO Alarm self checks vital functions to ensure that it is operating correctly.	Sensor Fault Off 2 Off 2 beeps	 Once weekly thereafter. After prolonged absence from the dwelling (e.g. after holiday period).
The CO Alarm memory is an important feature of the CO Alarm where even if the	 Low Battery Fault - the battery voltage is measured and compared against a low voltage threshold 	End of Life Off (1, 3, 0) Off 3 beens	4. After repair or servicing of any of the systems elements or household electrical work.
house is unoccupied during an alarm condition it warns the homeowner that the	 Sensor Fault - the sensor is checked for electrical continuity and open circuit. 	Table 4. Monitoring and Testing Summary	Io test the Alarm press and hold the test button. The Alarm will respond with one of the following status conditions:
has two operation modes:	3. End of Life fault (EOL) - The Alarm is programmed to check when the useful life of the Alarm has been exceeded. The status of the Alarm can also be	Low Battery:	 The green LED will flash and the horn will sound to indicate the Alarm is powered and operating correctly.
memory indication for 24 hour period after alarm memory recall on demand	checked on demand by using the test/hush button. The table 4 shows the	When the battery level is low, the CO Alarm will beep and the Amber LED will flash every minute	2. If there is a fault condition the amber LED will flash and the horn will beep in
24 hour memory indicators: After alarm, the RED light will flash at different	4. If the Alarms are indicating a fault, pressing the test button will silence the	The low battery beeps can be suppressed for 24 hours by pressing the test/hush	accordance to Table 4. 3. If prior detection of CO gas is stored in memory, set the RED light will flash and the
rates every minute (approx) depending on the level of CO detected (See Table 3). Memory recall on demand: To review the memory status after initial 24	beeps for a 24 hour period. This is for your convenience and can only be	DUITOR.	horn will give a full alarm sound (see section 2 - CO Alarm Memory.
hours, press and hold the test button, the red LED will flash in accordance to	uone once.	is available so as to maintain protection against CO leaks.	begin to occur, the amber LED will flash once and the sounder will beep once as
			a courtesy "pre-alert" indicating that the batteries should be replaced presently.
20 Quick Test with Carbon Monoxide:	21 Cleaning the Alarm:	22	23
The Carbon Monoxide Alarm checks for CO gas every 4 seconds and when exposed to the	Clean the outside case by occasionally wiping with a clean damp cloth. Do not use	CO build up may have dissipated by the time help arrives and the Alarm may	3. These appliances must "breathe in" air to burn the fuel properly. Know where the air comes from and ensure vents/air bricks etc. remain unobstructed
C6 brand canned C0 testing agent may be used to verify the Alarm's ability to sense C0. To	cans. Avoid spraying air fresheners, hair spray, paint or other aerosols near the CO	have stopped sounding. Although your problem may appear temporarily solved it is crucial that the source of the CO is determined and appropriate repairs made.	(particularly after building work). 4. The appliances must also "breathe out" the waste cases (including the CO)
gas test the Alarm, for 3 seconds spray the canned CO within 1/4" of the gas entry holes.	Alarm. Do not place air fresheners near the CO Alarm. Use the narrow nozzle of a vacuum cleaner to remove fluff and other contamination from the cover slots and	How to Protect your Family	-usually through a flue or chimney. Ensure chimneys and flues are blocked
has detected the CO.	gas entry holes.	Follow these guidelines to reduce the risk of Carbon Monoxide poisoning.	on appliances and pipe work.
To enter the accelerated functional gas test mode, press the Test button momentarily (approx, 1 second) while the Alarm is indicating CO presence. The Alarm will sound 2 x 4	 What to do when the Alarm sounds Open the doors and windows to ventilate the area (see note). 	These include:	Never leave your car, motor bike or lawnmower engine running in the garage with the garage door closed. Never leave the door from the house to the garage
temporal tone patterns to indicate an Alarm condition.	2. Turn off all fuel appliances where possible and stop using them. (The Alarm can	The CO Alarm warning of abnormal levels.	open if the car is running.
red light is no longer flashing	is less than 150ppm).	Staining, sooting or discoloration on or around appliances.	 Never use a gas cooker or a barbecue for home heating.
OFF POSITION ON POSITION	 Evacuate the property leaving the doors and windows open. Get medical help immediately for anyone suffering the effects of Carbon 	 A pilot light frequently going out. A strange smell when an appliance is operating. 	 Children should be warned of the dangers of CO poisoning and instructed never to touch, or interfere with the CO Alarm. Do not allow small children to press
	Monoxide poisoning (headache, nausea), and advise that Carbon Monoxide	• A naked gas flame which is yellow or orange, instead of the normal blue.	the test/hush button as they could be subjected to excessive noise when the
	5. Call your gas or other fuel supplier on their emergency number. Keep the	 Family members (including pets) exhibiting the "flu-like" symptoms of CO poisoning described above. If any of these signs are present get the appliance 	9. Leaving windows or doors slightly open (even a few inches) will significantly
Figure 13. Power ON or Power OFF Switch Position on CO Alarm	6. Do not re-enter the property until the Alarm has stopped. (If the Alarm has been	checked out by an expert before further use. If family members are ill get	modern houses reduces ventilation and can allow dangerous gases to build up.
Silencing (Hush)	silenced by pressing the test/hush button, wait at least 5 minutes so the Alarm can check that the CO has cleared).	2. Choose all appliances and vehicles which burn fossil fuels such as coal,	 Install CO Alarms in all the areas recommended in this booklet. Recognize that CO poisoning may be the cause when family members suffer
When the Alarm sounds, after sensing CO, pressing the test/hush button will immediately stop the hom (the red light will continue to flash). If CO is still present the red light and the	 Do not use the fuel appliances again until they have been checked by a registered installer or equivalent expert 	and have them professionally installed and regularly maintained.	from "flu-like" symptoms when at home but feel better when they are away for extended periods
hom will turn on again after about 4 minutes. The CO Alarm can only be silenced once during a CO incident At levels > 150npm CO the CO Alarm cannot be silenced			
dulling a collincident. At levels > 150ppin colline colAtarin calinot be silenced.	25	26	27
Limitations of CO Alarms	6. CO levels, but we do not guarantee that this will protect everyone from CO		ے Indicator Summary
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Limitations of CO Alarms 1. The CO Alarm will not work without good batteries. If the batteries have been drained the Alarm will not give protection. Button test the Alarm weekly and on return from holidays and other long absences. 2. (Carbon Monoxide in other areas of the house (e.g. downstairs, in a closed room etc) but not in the vicinity of the CO Alarm. Dors, air drafts and obstructions can prevent the CO reaching the Alarm. For these reasons we recommend CO Alarms are fitted both near and in bedrooms, particularly if bedroom doors are closed at night. Additionally install in rooms where members of the household spend much of their time, and in rooms with potential sources of CO gas. 3. The CO Alarm may not be heard. The sound output is loud but it may not be heard behind a closed door or if it is too far away. RF interconnecting CO Alarms greatly improves the probability that they will be heard. The Alarm may not wake up somebody who has taken alcohol or drugs. The Alarm sound may be masked by other sounds such as TV, stereo, traffic noise etc. Fitting heard. This CO Alarm is not designed for people with impaired hearing. 4. CO Alarms don't last indefinitely. CO Alarms are sophisticated electronic devices with many parts. Although the Alarm and its component parts have undergone stringent tests, and are designed to be very reliable, it is possible that parts can fail. Therefore, you should test your CO Alarm sech. The SOM Alarms are responsible for their own insurance. The CO Alarm weakly. The CO Alarm sech as designed to be very reliable, it is possible that parts can fail. Therefore, you should test your CO Alarm sech. Therefore, you should test your CO Alarm sech. 5. (CO Alarms are not a substitute for life insurance. House-holders are responsible for their own insurance. The CO Alarm weakly. The CO Alarm	CO levels, but we do not guarantee that this will protect everyone from CO poisoning. CO Alarms are not suitable as early warning Smoke Alarms. Some fires produce Carbon Monoxide, but the response characteristics of these CO Alarms are such that they would not give sufficient warning of fire. Smoke Alarms must be fitted to give early warning of fire. The CO Alarm does not detect the presence of natural gas (methane), bottled gas (propane, butane) or other combustible gases. Fit combustion Gas Alarms to detect these. Note: Carbon Monoxide Alarms, with electrochemical sensors have a cross sensitivity to hydrogen. This means that they can alarm due to sensing hydrogen being produced by batteries being incorrectly charged such as on boats or with battery back-up systems such as those used with alternative energy systems. The CO Alarm will alarm with 500 ppm H2 after between 10 and 40 minutes exposure. This CO Alarm is intended for residential use. It is not intended for the use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detect carbon monoxide gas from ANY source of combustion. It is NOT designed to detect asmoke, fire, or any other gases. Troubleshooting ALARM DDES NOT WORK WITH THE TEST BUTTON: Check the Alarm is secured correctly on the mounting plate. Wait 15 seconds after connecting the power before button testing. Hold button down firmly for at least 5 seconds. Image: the aber of the set	 Image: Contract of the second s	Indicator Summary Normal Operation Red LED Amber LED Green LED Sounder Power Up 1 flash 1 flash 1 flash 0ff 0ff Standby Off Off Off 0ff 0ff 0ff Button Test (Weekty) Off Off 0ff 0ff 0ff 0 Unit Sensing CO (as per table 3) Off Off 0ff 0 0 Fault Mode
Limitations of CO Alarms Image: Comparison of the construction of the constenex of the construction of the constructin o	CO levels, but we do not guarantee that this will protect everyone from C0 poisoning. CO Alarms are not suitable as early warning Smoke Alarms. Some fires produce Carbon Monoxide, but the response characteristics of these CO Alarms are such that they would not give sufficient warning of fire. Smoke Alarms must be fitted to give early warning of fire. The CO Alarm does not detect the presence of natural gas (methane), bottled gas (propane, butane) or other combustible gases. Fit combustion Gas Alarms to detect these. Note: Carbon Monoxide Alarms, with electrochemical sensors have a cross sensitivity to hydrogen. This means that they can alarm due to sensing hydrogen being produced by batteries being incorrectly charged such as on boats or with battery back-up systems such as those used with alternative energy systems. The CO Alarm will alarm with 500 ppm H2 after between 10 and 40 minutes exposure. This CO Alarm is intended for residential use. It is not intended for the use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detectors must be met. This carbon monoxide alarming device is designed to detect carbon monoxide gas from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gases. Troubleshooting ALARM DOES NOT WORK WITH THE TEST BUTTON: 1. Check the Alarm is secured correctly on the mounting plate. 2. Wait 15 seconds after connecting the power before button testing. 3. Hold button down firmly for at least 5 seconds. Power Table 7. Alarm Fault Chart Technical Specifications Tow (2) Duracell Alkaline AAA MN2400BK Transmitter Frequency 345 MH2 (roystal controlled) Unique ID Codes Over (1) one million different code combinations Test/Hush Button Checke selectroles, sounder, sensor, and batteries Operating Temperature 40°F to 100°F (4°Cto 38°C)	 Image: Control of the c	Indicator Summary Normal Operation Red LED Amber LED Green LED Sounder Power Up 1 flash 1 flash 1 flash Off On Unit Sensing CO Flashing Oga itself (every 50 sec) Off 1 flash Off Deeps Low Battery Condition Off 1 flash (every 50 sec) Off 2 beeps Condition Off 2 beeps End of Life Condition Off 2 flashes (every 50 sec) Off 3 beeps Table 5. Table 5. Indicator Summary IMPORTANT: If the red, amber & green lights do not flash in sequence, the batteries may be installed incorrectly (reverse polarity). Remove the detector from the mounting bracket, remove the battery cover and check if the batteries are installed correctly. If the batteries were connected incorrectly and after correcting the polarity of the batteries, the detector may indicate CO is present by a flashing red LED for the first hour. Please note that during this period the detector will still activate as required during an actual CO event. Nice North America LLC I 2GIG Speed Ster Place, Ste. 100, Carlsbad, CA. 92010 Speed Ster Place, Ste. 100, Carl
Limitations of CO Alarms Limitations of CO Alarm will not work without good batteries. If the batteries have been drained the Alarm will not give protection. Button test the Alarm weekly and on return from holidays and other long absences. 2. (Carbon Monoxide must enter the CO Alarm for it to be detected. There may be Carbon Monoxide in other areas of the house (e.g. downstairs, in a closed room etc.) but not in the vicinity of the CO Alarm. Doors, air drafts and obstructions can prevent the CO reaching the Alarm. For these reasons we recommend CO Alarms are fitted both near and in bedrooms, particularly if bedroom doors are closed at night. Additionally install in rooms where members of the household spend much of their time, and in rooms with potential sources of CO gas. 3. The CO Alarm may not be heard. The sound output is loud but it may not be heard behind a closed door or if it is too far away. RF interconnecting CO Alarms greatly improves the probability that they will be heard. The Alarm may not wake up somebody who has taken alcohol or drugs. The Alarm sound may be masked by other sounds such as TV, stereo, traffic noise etc. Fitting CO Alarms on either side of closed doors will improve their chance of being pheard. This CO Alarm is not designed for people with impaired hearing. 4. CO Alarms don't last indefinitely. CO Alarms are sophisticated electronic devices with many parts. Although the Alarm and its component parts have undergone stringent tests, and are designed to be very reliable, it is possible that parts can fail. Therefore, you should test your CO Alarm weekly. The CO Alarm must be replaced when the "REPLACE UNIT BY" date has been reached. Check the label on the side of the Alarm. 5. (CO Alarms are not a substitute for life insurance. House-holders are responsible for their own insurance. The CO Alarm weekly, Th	 CO levels, but we do not guarantee that this will protect everyone from CO poisoning. CO Alarms are not suitable as early warning Smoke Alarms. Some fires produce Carbon Monoxide, but the response characteristics of these CO Alarms are such that they would not give sufficient warning of fire. Smoke Alarms must be fitted to give early warning of fire. The CO Alarm does not detect the presence of natural gas (methane), bottled gas (propane, butane) or other combustible gases. Fit combustion Gas Alarms to detect these. Note: Carbon Monoxide Alarms, with electrochemical sensors have a cross sensitivity to hydrogen. This means that they can alarm due to sensing hydrogen being produced by batteries being incorrectly charged such as on boats or with battery back-up systems such as those used with alternative energy systems. The CO Alarm will alarm with 500 ppm H2 after between 10 and 40 minutes exposure. This CO Alarm is intended for residential use. It is not intended for the use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detectors must be met. This carbon monoxide detectors must be met. This carbon monoxide alarming device is designed to detect smoke, fire, or any other gases. Troubleshooting ALARM DOES NOT WORK WITH THE TEST BUTTON: Check the Alarm is secured correctly on the mounting plate. Wait 15 seconds after connecting the power before button testing. Hold button down firmly for at least 5 seconds. 	 A Contract of the second of the	Indicator Summary Power Up 1 flash 1 flash 1 flash 0 ff Standby Off Off Off Off Off Button Test Off Off Off Off Off Off Unt Sensing CO Flashing Off Off Off On Instantion Off Off Off Off On Fault Mode

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