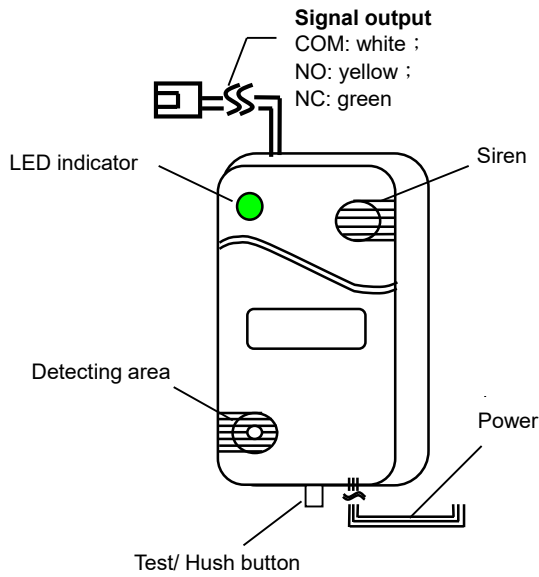


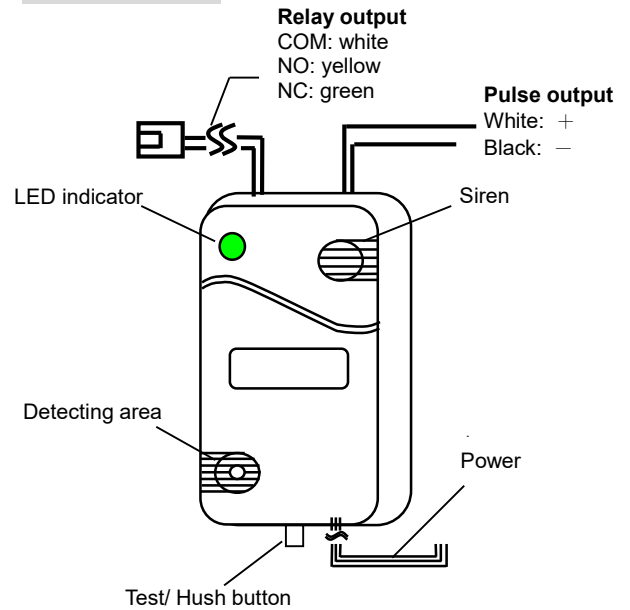
# AGS-XX2 Gas (LNG/ LPG/ CO ) Alarm Instruction Manual

Thanks for purchasing gas (LNG/ LPG/ CO) alarm. Please read these instructions carefully before using the gas alarm. Thank you!

## AGS-X32 series



## AGS-X42 series



## Alarm Set Point

- (1) LNG/LPG: According to UL1484 (Residential gas detectors), no alarm should be activated when gas level is lower than 1/100 (LEL), in order to avoid false alarm. The alarm range should be between 1/100~1/4 (LEL). The alarm set point of AGS series gas alarm is Low explosion limit (LEL) 1/10~1/4, alarm will be activated after LNG/LPG level reaches the set point for 25 sec.
- (2) Carbon monoxide: UL2034 (Standard for Safety for Carbon Monoxide Alarms) and the sensitivity of AGS series gas alarm is as below.

Level of CO Concentration (ppm)	Alarm activation Time (Min-Max) According to UL2034	Activation time of AGS series gas alarm
30	-	30 days
70	60~240 min	90 min
150	10~50 min	15 min
400	4~15 min	4~5 min
Over 600	-	Within 1 min.

Ex. If the level of Carbon monoxide concentration in environment remains 30ppm for 30days, the alarm will be activated. The activation time of AGS series gas alarm for other level of Carbon monoxide concentration will be as listed as above.

## Operation

Status	Indicator	Siren	Relay output <sup>(1)</sup>	Pulse output <sup>(2)</sup>
Damaged or defective alarm	Off			
Warm-up ( about 40 secs.)	Green LED blinks	No	No	No
Normal operation	Green LED is ON			
Alarm hysteresis	Red LED blinks			
LNG/LPG alarm	Red LED blinks	Yes	Yes	Yes
Carbon Monoxide alarm	Orange LED blinks			
Test	Red and Green LED blinks alternately	Yes	Yes	Yes

(1) The max. relay output capacity is AC125V 12A, DC30V 7A.

(2) AGS-142, AGS-242, AGS-342 and AGS-442 is equipped with pulse output.

## Installation

Before the installation, please check the hardness and the material of wall. Please do not install the gas alarm on a plywood or fragile wall surface.

- To install the gas alarm on wooden wall, please use screws to fix directly the bracket on wall; to install the gas alarm on concrete wall, please drill a small hole and fix the plastic screw anchor and then fix the bracket with screws. (please refer to the figure 1 as below)

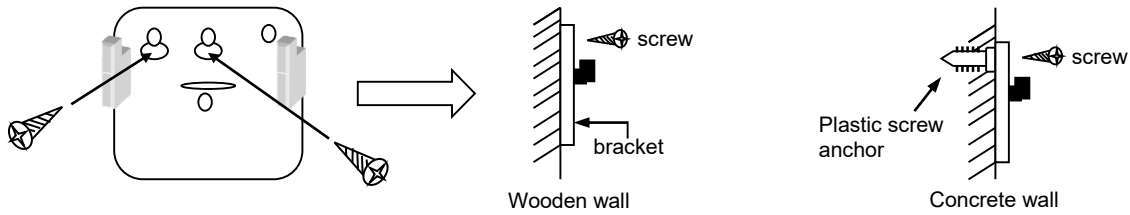
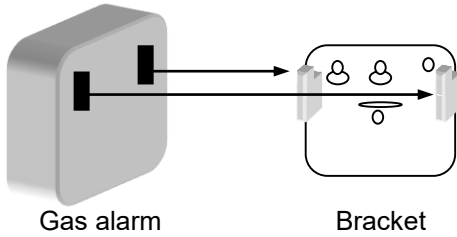


Figure 1

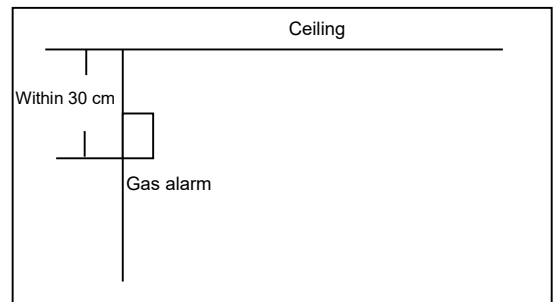
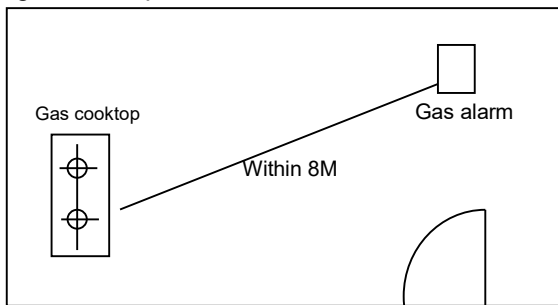
- Mount the gas alarm on the bracket.



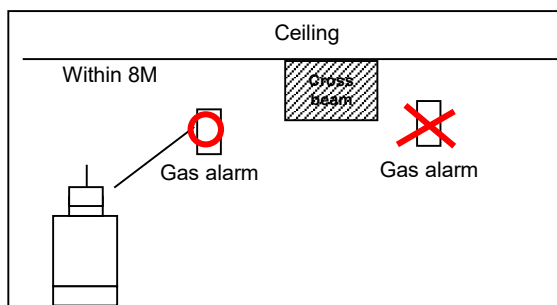
## Notice for installation

### AGS-1x2, 3x2, 4x2 series

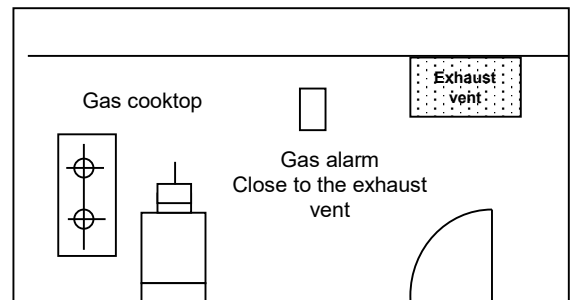
- The max. distance from gas alarm to the gas cooktop should be within 8M.
- The distance from the bottom of gas alarm to the ceiling should be within 30 cm.



- If there is a large crossbeam with depth of over 60cm, please install the gas alarm close to the gas cooktop.

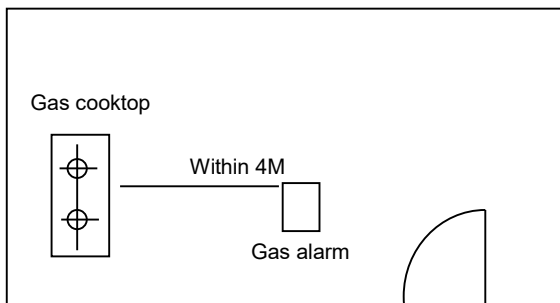


- Please keep the gas alarm close to the exhaust vent if there's any.

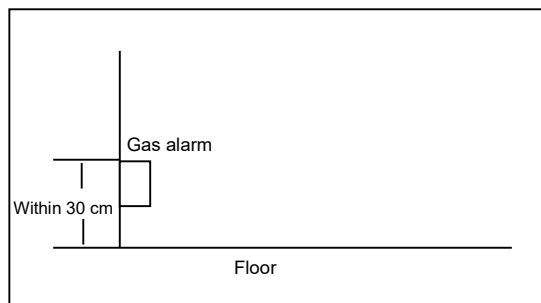


**AGS-2x2 series**

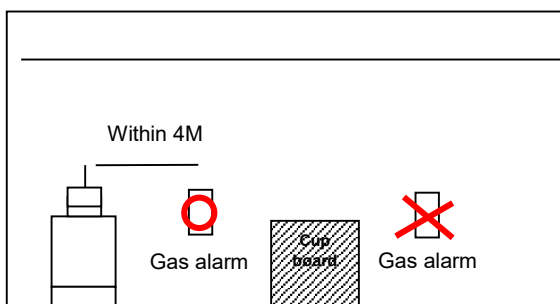
1. The max. distance from gas alarm to the gas cooktop should be within 4M.



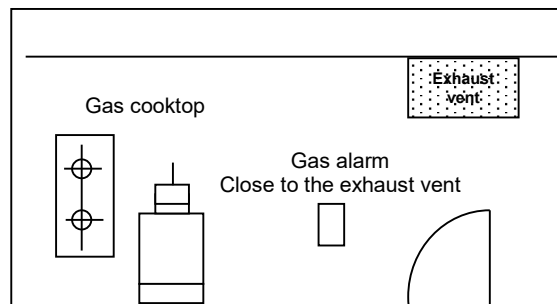
2. The distance from the top of gas alarm to the floor should be within 30 cm.



3. If there is a large cupboard, please install the gas alarm close to the gas cooktop.



4. Please keep the gas alarm close to the exhaust vent if there's any.



**Location to avoid**

- Right above the gas cooktop or any gas devices.
- In turbulent air area.
- In waterish areas.
- In very hot or cold area where the temperature exceeds +50°C or falls below -10°C.
- In steaming areas.
- In poorly ventilated corner.
- Temporary power supplied location.

**Test/ Hush button**

Status		Operation
Alarm output test	Warm-up	Test function will not be run during warm-up.
	Normal operation	Press and hold the Test/Hush button for 3 sec. to simulate alarm status.
	Gas alarm hysteresis	
Clear alarm	Alarm is activated	<ol style="list-style-type: none"> <li>1. Press one time the Test/Hush button to clear alarm and one minute later, if the level of gas is lower than the alarm set point, the gas alarm will be back to the normal operation status, otherwise the alarm will be activated again.</li> <li>2. Press and hold the Test/Hush button for 3 sec to clear alarm and five minutes later, if the level of gas is lower than the alarm set point, the gas alarm will be back to the normal operation status, otherwise the alarm will be activated again.</li> </ol>

## Trouble shooting

Problem	Possible Reason	Action
LED indicator is off	<ul style="list-style-type: none"><li>• No power</li><li>• Power wiring problem</li></ul>	<ul style="list-style-type: none"><li>• Check power</li><li>• Check wiring</li></ul>
No siren sound during test	<ul style="list-style-type: none"><li>• Problem with pressing test button</li></ul>	<ul style="list-style-type: none"><li>• Please press and hold the Test/Hush button for 3 sec. to simulate alarm status.</li></ul>
Siren is activated but with no gas leakage	<ul style="list-style-type: none"><li>• Any volatilizable oil, spray or too much evaporable alcohol might cause false alarm</li><li>• Unstable power supply</li></ul>	<ul style="list-style-type: none"><li>• Remove the possible interference source</li><li>• Activate a ventilator</li><li>• Check power and avoid to share power with other electrical devices</li></ul>
Alarm indicator blinks and siren is activated, but no signal output	<ul style="list-style-type: none"><li>• Unstable power supply</li><li>• Short circuit or overload</li></ul>	<ul style="list-style-type: none"><li>• Check power and avoid to share power with other electrical devices</li><li>• Check wiring. And if the resistance of cable is over 600Ω, it is recommended to change signal cable.</li></ul>

## Cautions

- There are three different options for power supply AC110V, AC220V and DC 12~30V. Please pay attention while power on the unit.
- The warm-up time would be 40 sec. after power on. The Red LED will blink during warm-up.
- Please keep away the spray, alcohol or any volatilizable oil.
- Please do not open or disassemble the gas alarm.
- Please do not hit gas alarm.
- Please read carefully the instruction manual before using the gas alarm.