

Combo Smoke/CO Alarm Instruction Manual



PMN: Combo Smoke/CO Alarm
Model No. (HVIN): GS886A-RVAR-H01
RD-(886A-RVAR-H01)-39-001 Rev A

Thank you for purchasing this Combination Smoke/CO alarm GS886A-RVAR-H01. Both carbon monoxide and smoke alarms are capable of multi-station. This model is powered by 120V AC with 2 AA batteries backup. Which can be hardwired or wireless interconnect. It also contains a voice message system and SMART Silence Control to temporarily silence nuisance alarms.

THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Battery march Park, Quincy, MA 02269).

Typical installation drawing layouts for the unit(s) indicating recommended locations and wiring methods which shall be in accordance with the applicable requirements outlined in the following: 1)C22.1-12, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations; and 2)CANULC-S553, Standard for installation of Smoke Alarms.

3) National Electrical Code, NFPA 70, Wiring Methods and Materials;
4) National Fire Alarm and Signaling Code, NFPA 72, Single and Multiple-Station Alarms and Household Fire Alarm Systems for US requirement.

The National Fire Protection Association (NFPA) and the manufacturer recommend replacing this alarm ten years from the date code on back of alarm. Beyond which the device might no longer detect smoke accurately and should be immediately replaced. This instruction manual contains important information on starting operation and using the device.

ATTENTION! Please take a few minutes to thoroughly read the instruction manual and familiarize yourself and your family with its operation. And save it for future reference.

Images are representative only. Actual product may vary slightly.

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1. What to do if the smoke alarm sounds

Smoke alarm pattern is three long beeps with voice "Fire", "Incendial", three long beeps, 1.5 seconds pause, repeating.

The smoke alarm takes precedence when both smoke and carbon monoxide are present.

What to do in the event of a fire

1. Do not panic, stay calm.
2. While leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit.
3. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
4. Meet at a pre-arranged meeting place outside the building.
5. Call the fire department or 911 from outside the building.
6. Do not go back inside a burning building. Wait for the fire department to arrive.

NOTE: These guidelines will assist you in the event of a fire, however, to reduce the chance that fires will start, practice fire safety rules, and prevent hazardous situations.

2. What to do if the CO alarm sounds

Carbon monoxide (CO) alarm pattern is four quick beeps with voice "Warning! Carbon Monoxide", "Attention! monoxide de carboxémie", four quick beeps, 5 seconds pause, repeating. The ALARM indicator (red) will flash the same pattern.

WARNING

Carbon monoxide (CO) is a colorless, odorless, poisonous gas. You can't taste, see, or smell CO, but it can kill in just minutes.

This alarm will sound in a 4-beep pattern if life threatening levels of CO are detected.

If the alarm sounds:

- 1) Immediately evacuate all occupants from the space and go outdoors to fresh air.
- 2) Call emergency responders (911 or fire department) for help; notify the building or vehicle owner, as necessary.

3. Product important information

⚠ DANGER! - ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death.

⚠ WARNING! - ACTION OF THIS DEVICE INDICATES THE PRESENCE OF DANGEROUS LEVELS OF CO CAN BE FATAL.

⚠ WARNING! - THIS PRODUCT IS INTENDED FOR USE IN ORDINARY INDOOR RESIDENTIAL AREAS. IT IS NOT DESIGNED TO MEASURE COMPLIANCE WITH COMMERCIAL AND INDUSTRIAL STANDARDS.

⚠ CAUTION! - This Carbon Monoxide/CO alarm is designed to detect carbon monoxide gas from any source of combustion. It is not designed to detect any other gas.

⚠ CAUTION! - This Combo Smoke/CO alarm will not protect against the risk of smoke or carbon monoxide poisoning when the battery has been drained.

⚠ WARNING! - 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.

⚠ CAUTION! - This device should be installed by a competent person.

⚠ CAUTION! - This device will only indicate the presence of CARBON MONOXIDE GAS AT THE SENSOR. CARBON MONOXIDE GAS MIGHT BE PRESENT IN OTHER AREAS.

⚠ WARNING! - Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. This alarm has not been investigated for carbon monoxide detection below 70 PPM.

There are situations where a smoke alarm may not be effective to protect against fire as stated in the NFPA Standard 72. For instance: a) Fires where the victim is intimate with a flaming ignited fire, for example, when a person's clothes catch fire while cooking; b) Fires where the victim is prevented from reaching the smoke alarm due to a closed door or other obstruction; c) Incipient fires where the fire grows so rapidly that an occupants egress is blocked even with properly located smoke alarms.

⚠ WARNING! - Smoke alarms are not to be used with smoke alarm guards unless the combination has been evaluated and found suitable for that purpose.

⚠ WARNING! - This Combo Smoke/CO alarm requires a continuous supply of electrical power - it will not work without power.

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

⚠ WARNING! - This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards.

⚠ WARNING! - This unit must be powered by a 24-hour, 120-volt, pure sine wave, 60 Hz circuit. Be sure the circuit cannot be turned off by a switch, dimmer, or ground fault circuit interrupter. Failure to connect this unit to a 24-hour circuit may prevent it from providing constant protection. The unit may be connected to an arc-fault circuit interrupter.

⚠ WARNING! - IT IS NOT DESIGNED FOR USE IN A RECREATIONAL VEHICLE (RV) OR BOAT.

⚠ WARNING! - This Smoke Alarm must have AC or battery power to operate. If the AC power fails, Battery backup will allow the alarm to sound for at least 4 minutes. If AC power fails and the battery is weak, protection should last up to 7 days. If AC power fails and the battery is dead or draining, the alarm cannot operate.

⚠ WARNING! - Never disconnect the power from an AC-powered unit to stop an unwanted alarm. Doing so will disable the unit and remove your protection. In the case of a true unwanted alarm, open a window or fan the smoke away from the unit. The alarm will reset automatically when it returns to normal operation. Never remove the batteries from a battery operated unit to stop an unwanted alarm caused by cooking smoke, etc.) Instead open a window or fan the smoke away from the unit. The alarm will reset automatically.

1) The TEST/SILENCE button accurately tests the device functions. Do not use any other test method. Test the device weekly to ensure proper operation. Do not install in non-residential buildings. And the device is not a substitute for a complete alarm system.

2) If you're sure it isn't a real alarm, open windows or on the air around the device to silence it.

3) Observe and follow all local and national electrical and building codes for installation.

4) This Combo Smoke/CO alarm is designed to be used inside a single family only, in multifamily buildings, each individual living unit should have its own smoke alarm device.

5) Install a Combo Smoke/CO alarm in every room and on every level of the home. Smoke may not reach the smoke alarm for many reasons. For example, if a fire starts in a remote part of the home, on another level, in a chimney, wall, roof, or on the other side of a closed door, smoke may not reach the device in time to alert household members. This Combo Smoke/CO alarm will not promptly detect a fire or CO danger except in the area or room in which it is installed.

6) This Combo Smoke/CO alarm may not alert every household member every time. The alarm horn is loud in order to alert individuals to a potential danger. However, there may be some circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, drug or alcohol usage, the hard of hearing, etc.). If you suspect that this device may not alert a household member, should install and maintain other specially smoke alarm or CO alarm devices. Household member must hear the alarm's warning sound and quickly respond to it to reduce the risk of damage, injury, or death that may result from fire. If a household member is hard of hearing, install other special smoke alarm or CO alarm with lights or vibrating device to alert occupants.

7) This Combo Smoke/CO alarm can only sound their alarms when they detect smoke or detected combustion particles or dangerous level of CO in the air. They do not sense heat, flame, or other gas. The device is designed to give audible warning of a developing fire. However, many fires are fast - burning, explosive, or intentional, and others are caused by carelessness or safety hazards. In these cases, smoke may not remove the unit alarm QUICKLY ENOUGH to ensure safe escape.

8) This Combo Smoke/CO alarm has limitations. The device is not foolproof and is not warranted to protect life or property from fire. Smoke alarm and CO alarm are not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is possible for the device to fail at any time. For this reason, you must test the device weekly and replace every 10 years.

4. Installation instructions

NOTE: Installation of batteries and test that the alarm works normally, before connecting AC power. If more than one smoke alarm is installed all units shall be interconnected. Interconnection can be achieved either by wiring the I/O terminals of the alarms together.

NOTE: A missing or improperly installed battery will prevent the battery door from closing and result in improper alarm operation.

NOTE: Dust Cover is included to keep the alarm clean during construction.

⚠ WARNING! - Dust Cover MUST BE REMOVED FOR ALARM TO OPERATE.

4.1 Install or replace battery:

- 1) Install or replace the battery.
- Open the battery cover and install or replace with new battery. (See Diagram 1-2)

2) After you install or replace the battery. Close the battery cover; then test smoke alarm using TEST / SILENCE button. (See Diagram 3)

3) Test the alarm: Press the test button for more than 1 second and the alarm enters test mode. Make sure that the alarm works normally, then proceed to the next step of installation.

4.2 Wireless Pairing

1) Press the TEST button on any siren 3 times within 2 seconds to enter "Pairing Mode".

Simultaneously voice "Pairing", "Apparement". The unit will remain in pairing mode for 5 minutes.

2) The unit now becomes the master alarm. Only one MASTER can be created per installation.

3) On any other slave alarm, press the TEST button within 2 seconds to enter pairing mode.

4) If the network connection is successful, the master alarm will chirp once, the slave alarm will chirp once with the voice "Pairing Successful", "Succes de l'apparement", and the green LED will light up for 3 seconds. If the wireless module fails, the yellow LED will light up for 3 seconds. If the network fails, the voice prompt "Pairing Failure", "Echec de l'apparement" and the yellow LED flashes 15 times rapidly.

NOTE: To exit pairing, press TEST button on MASTER unit 3 times within 2 seconds, green LED will turn off.

NOTE: Before installing the alarm on the roof and connect to mains power, we recommend activating the alarms (see Battery installation) and pairing the master and slave alarm.

NOTE: If there is no problem in the distance between the installed rooms and each other, try to avoid wired interconnection wiring, so as to reduce the problems caused by wired interconnection.

4.3 Reset the wireless network

Quickly press the TEST button on the smoke alarm 5 times within 3 seconds to enter "Reset the wireless network mode". The green LED will flash slowly. Press the TEST button once within 5 seconds, the smoke alarm will chirp once and the green LED will turn off, the wireless network is reset successfully. If the TEST button is not pressed within 5 seconds, the smoke alarm will exit "Reset the wireless network mode" and pairing operation will not cause the wireless network to be reset. Reset the wireless network will unpair the units from the paired network. If need repair then, please refer to pairing wireless.

4.4 Wiring Requirements

1) This alarm should be installed on a UL Listed or recognized junction box. All connections should be made by a qualified electrician and all wiring shall be in accordance with articles 210 and 300.3(B) of the U.S. National Electrical Code (ANSI/NFPA 70, NFPA 72) and/or any other codes having jurisdiction in your area. The multiple station interconnect wiring to the alarms must be run in the same way as the AC power wiring. In addition, the ground of the interconnect wiring shall be a maximum of 10 ohms.

2) The maximum wire run distance between the first and last unit in an interconnected system is 1000 feet.

3) The appropriate power source is 120 Volt AC single phase supplied from a non-switchable circuit.

4) Smoke alarms are not to be used with circuit breakers unless the combination (alarm and detector guard) has been evaluated and found suitable for that purpose.

⚠ 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 powered power sources. These power sources produce high peak voltages that will damage the alarm.

4.5 Wiring Instructions for AC Quick Connector Harness

⚠ CAUTION: Turn off the AC power to the circuit before wiring the alarm.

1) For alarms that are used as single station, DO NOT CONNECT THE RED WIRE TO ANYTHING. Leave the RED wire insulating cap in place to make certain that the RED wire cannot contact any metal parts or the electrical box.

2) All interconnected alarms must be supplied with a single power source.

3) The wire colors are: Live = Black; Neutral = White; Interconnect = RED. Do not connect interconnect wires to a Live or Neutral. Improper connection will result in damage to the alarm, failure to operate, or a shock hazard. Check the connections carefully before turn on the AC power to the circuit. Interconnect Wiring Diagram See Diagram 4.

4) Maximum number of alarm is 12 units.

5) Make certain alarms are wired to a continuous (non-switched) power line.

NOTE: Attaching AC power first, without activating the battery, will result in a false low battery trouble condition. You need to activate the battery to eliminate the false low battery notifications. Fully mount the alarm into the mounting bracket before, or very soon after applying AC power to avoid false low battery notification.

6) Turn on the AC power. The green LED will turn on when the alarm is operating from AC power.

7) FUSE ON CIRCUIT BREAKER

8) FUSE ON CIRCUIT BREAKER

9) FUSE ON CIRCUIT BREAKER

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62) FUSE ON CIRCUIT BREAKER

63) FUSE ON CIRCUIT BREAKER

⚠ WARNING! - To prevent injury, this device must be securely attached to the ceiling/wall in accordance with the installation instructions.

4.6 Recommended location for alarms

The following suggestions are intended to help you with the placement and installation of your Combo Smoke/CO alarm.

- 1) In all sleeping rooms and guest rooms.
- 2) Outside of each separate dwelling unit sleeping area, within 21 feet (6.4 m) of any door to a sleeping room, the distance measured along a path of travel.
- 3) On every level of a dwelling unit, including basements.
- 4) On every level of a residential board and care occupancy (small facility), including basements and excluding car spaces and unfinished attics.
- 5) In the living area(s) of a guest suite.
- 6) In the living area(s) of a residential board and care occupancy.
- 7) Smoke, heat, and combustion products rise to the ceiling and spread horizontally. Mounting the smoke alarm on the ceiling in the center of the room places it closest to all points in the room. Ceiling mounting is preferred in ordinary residential construction.
- 8) The device should be at least 6 feet (1.8 m) above the floor level.
- 9) When mounting a device on the ceiling, locate it at a minimum of 4 inch (10 cm) from the side wall.
- 10) When mounting the device on the wall, use an inside wall with top edge the alarm at a minimum of 4 inch (10 cm) and maximum of 12 inch (30.5 cm) below the ceiling.
- 11) Put the device at both ends of a bedroom hallway or a room if the hallway or room is more than 30 feet (9.1 m) long.
- 12) Install the device on sloped, peaked or cathedral ceilings at or within 3 feet (0.9 m) of the highest point (measured horizontally).

13) Normal cooking may cause nuisance alarms. If a kitchen alarm is desired, it should have an alarm silence feature and should not be installed within 5 feet (1.5 m) of cooking appliances.

14) Avoid spraying aerosols near the device.

15) Alert to a door or window, an extractor fan, air returns or heating and cooling supply vents within at least 3 feet (0.9m) away from these areas. The air could blow smoke away from the device, interrupting its operation.

16) Areas with high humidity, like bathrooms or areas near dishwashers or washing machines or directly above a sink. Install at least 10 feet (3m) away from these areas.

17) 50% relative humidity may fall below 0°C or rise above 40°C, or in humidity higher than 95%. These conditions will reduce battery life or cause a fault alarm.

18) In the garage. Products of combustion are present when you start your automobiles.

19) In an enclosed space (for example in a cupboard or behind a curtain).

20) Where it can be obstructed (for example by furniture).

21) Less than 4 inch (10 cm) from the peak of an "A" frame type ceiling.

22) Near fluorescent lights. Electronic "noise" may cause nuisance alarms.

23) Place out of the reach of children. Under no circumstance should children be allowed to handle the device.

24) Normal cooking may cause nuisance alarms. If a kitchen alarm is desired, it should have an alarm silence feature and should not be installed within 5 feet (1.5 m) of cooking appliances.

25) Avoid spraying aerosols near the device.

26) Alert to a door or window, an extractor fan, air returns or heating and cooling supply vents within at least 3 feet (0.9m) away from these areas. The air could blow smoke away from the device, interrupting its operation.

27) Areas with high humidity, like bathrooms or areas near dishwashers or washing machines or directly above a sink. Install at least 10 feet (3m) away from these areas.

28) 50% relative humidity may fall below 0°C or rise above 40°C, or in humidity higher than 95%. These conditions will reduce battery life or cause a fault alarm.

29) In the garage. Products of combustion are present when you start your automobiles.

30) In an enclosed space (for example in a cupboard or behind a curtain).

31) Where it can be obstructed (for example by furniture).

32) Less than 4 inch (10 cm) from the peak of an "A" frame type ceiling.

33) Near fluorescent lights. Electronic "noise" may cause nuisance alarms.

34) Place out of the reach of children. Under no circumstance should children be allowed to handle the device.

35) Normal cooking may cause nuisance alarms. If a kitchen alarm is desired, it should have an alarm silence feature and should not be installed within 5 feet (1.5 m) of cooking appliances.

36) Avoid spraying aerosols near the device.

37) Alert to a door or window, an extractor fan, air returns or heating and cooling supply vents within at least 3 feet (0.9m) away from these areas. The air could blow smoke away from the device, interrupting its operation.

38) Areas with high humidity, like bathrooms or areas near dishwashers or washing machines or directly above a sink. Install at least 10 feet (3m) away from these areas.

39) 50% relative humidity may fall below 0°C or rise above 40°C, or in humidity higher than 95%. These conditions will reduce battery life or cause a fault alarm.

40) In the garage. Products of combustion are present when you start your automobiles.

41) In an enclosed space (for example in a cupboard or behind a curtain).

42) Where it can be obstructed (for example by furniture).

43) Less than 4 inch (10 cm) from the peak of an "A" frame type ceiling.

44) Near fluorescent lights. Electronic "noise" may cause nuisance alarms.

45) Place out of the reach of children. Under no circumstance should children be allowed to handle the device.

46) Normal cooking may cause nuisance alarms. If a kitchen alarm is desired, it should have an alarm silence feature and should not be installed within 5 feet (1.5 m) of cooking appliances.

47) Avoid spraying aerosols near the device.

48) Alert to a door or window, an extractor fan, air returns or heating and cooling supply vents within at least 3 feet (0.9m) away from these areas. The air could blow smoke away from the device, interrupting its operation.

49) Areas with high humidity, like bathrooms or areas near dishwashers or washing machines or directly above a sink. Install at least 10 feet (3m) away from these areas.

50) 50% relative humidity may fall below 0°C or rise above 40°C, or in humidity higher than 95%. These conditions will reduce battery life or cause a fault alarm.

51) In the garage. Products of combustion are present when you start your automobiles.

6. AC wired interconnect model capability

This model has AC hardware interconnect capability. When one hardwired interconnect unit sounds an alarm, all other compatible hardwire or interconnected units will also alarm.

NOTE: AC wiring must be completed properly, and the AC quick connector must be attached to the unit for the hard wire interconnection function to work.

NOTE: This model has a built-in smoke sensor. If a fire alarm unit, especially one with a remote alarm unit, is installed in a home, and if a fire starts in a remote area of the dwelling, if any unit in the system senses smoke, all units will Alarm. To determine which Alarm initiated an Alarm, the red LED blinks in time with alarm pattern indicating that this is the unit initiating the alarm in an interconnected multiple alarm system.

NOTE: It is possible for more than one unit to detect a hazard and become an initiating alarm unit.

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5. Options d'interconnexion

CLÉ DE CÂBLAGE

— = Phase
- - - - - = Interconnexion câblée
— = Neutre
- - - - - = Interconnexion sans fil