Combo Alarm

Model 7300 Battery
Model 7400 Hardwire
User Manual



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).

a) Typical installation drawing layouts for the unit(s), indicating recommended locations, 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;
2) CAN/ULC-S553, Standard for Installation of Smoke Alarms. The National Fire Protection Association (NFPA) and the manufacturer recommend replacing this alarm ten years from the date code on back of alarm. This instruction manual contains important information on starting operation and using the device.

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.

Intertek
Conforms to UL STD 217 & UL STD 2034
5020949

Table of Contents

1.What to do if the smoke alarm sounds..... 1
2.What to do if the CO alarm sounds..... 1
3.Product important information..... 1
4 Alarm activation..... 2-4
5.Installation instructions..... 4
6.Understanding your combo smoke/CO alarm..... 4-6
7.General Maintenance..... 7
8.Carbon monoxide overview..... 7
9.Alarm deactivation and disposal..... 7
10.Product specifications..... 8
11.Recognizing nuisance alarms..... 8
12.Warranty information..... 8
13.Warranty card..... 8
14.Manufacturer and customer service information..... 8

1. What to Do if the Smoke Alarm Sounds

Smoke alarm pattern is three long beeps with voice "Danger!, Smoke!, Evacuate Now!", a 1.5 second pause, and three long beeps repeating.
The smoke alarm takes precedence when both smoke and carbon monoxide are present.

1.1 What to do in case of fire.

1. Do not panic, stay calm.
2. Leave the building as quickly as possible. Touch doors to feel if they are hot before opening them. Use an alternate exit if necessary. Crawl along the floor, and do not stop to collect anything.
3. Meet at a pre-arranged meeting place outside the building.
4. Call the fire department or 911 from outside the building.
5. 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.

1.2 Practice fire safety.

If the smoke alarm sounds, and you have not pushed the test button, it is warning of a dangerous situation, your immediate response is necessary. To prepare for such occurrences, develop family escape plans, discuss them with all household members, and practice them regularly.

1. Expose everyone to the sound of a smoke alarm device and explain what the sound means.
2. Determine two exits from each room and an escape route to the outside from each exit.
3. Teach all household members to touch the door and use an alternate exit when the door is hot, instruct them not to open the door if the door is hot.
4. Teach household members to crawl along the floor to stay below dangerous smoke, fumes and gases.
5. Determine a safe meeting place for all members outside the building.

2. What to Do if the CO Alarm Sounds

Carbon monoxide (CO) alarm pattern is four quick beeps with voice "Dangerous level of carbon monoxide detected. Evacuate immediately, call 911." repeating every 5 seconds.

⚠ **WARNING!-Carbon monoxide is a toxic gas that can quickly kill adults and children with no warning. This alarm will sound if acute hazardous levels of carbon monoxide are detected - it cannot be seen, smelled, or tasted by humans.**

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 owner, as necessary.
3) IMMEDIATELY EXIT TO FRESH AIR - OUTDOORS OR BY AN OPEN DOOR/WINDOW. DO A HEAD COUNT TO CHECK THAT ALL PERSONS ARE ACCOUNTED FOR. DO NOT REENTER THE PREMISES NOR EXIT AWAY FROM THE OPEN DOOR/WINDOW UNTIL THE EMERGENCY SERVICES RESPONDERS HAVE ARRIVED, THE PREMISES HAVE BEEN AIRED OUT, AND YOUR ALARM REMAINS IN ITS NORMAL CONDITION.
4) After following steps 1 - 3, if your alarm reactivates within a 24 hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection have the equipment serviced immediately. Note any combustion equipment not inspected by the technician and consult the manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not been, operating in an attached garage or adjacent to the residence.

NOTE: See Section RECOGNIZING NUISANCE ALARMS, for nuisance alarm situations.

3. Product Important Information

⚠ **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 Combo Smoke/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 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 initiated fire; for example, when a person's clothes catch fire while cooking; b) Fires where the smoke is prevented from reaching the smoke alarm due to a closed door or other obstruction; c) Incendiary fires where the fire grows so rapidly that an occupant's 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.**

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 fan 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 devices.
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, you should install and maintain other specialty smoke alarm and/or CO alarm devices. Household members 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 and/or CO alarms with lights or vibrating devices to alert occupants.
7) This Combo Smoke/CO alarm can only alarm when it has detected smoke or detected combustion particles or dangerous levels of CO in the air. This alarm does 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 make 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 lives or property from fire. Smoke alarms and/or CO alarms 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.

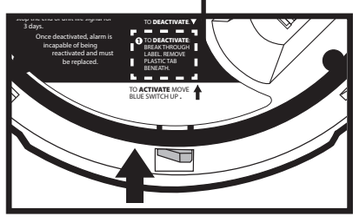
4. Alarm Activation

CAUTION: this unit must be activated prior to installation. Failure to properly install and activate this alarm will prevent proper operation of this alarm and will prevent its response to fire hazards.

1) Locate the activation tab on the back of the alarm. Tab is colored blue and is located on the bottom of the alarm.



2) Push the blue tab upward toward the center of the alarm. This will activate the alarm and allow it to be mounted to the bracket.



Changing Language & Room Programming

1) Press and release the button to start the audio messaging and options
   a. Start the test (do nothing)
   b. Cancel the test (press & release button)
   c. Change language (press and hold button for 2 seconds)
2) When the option to press and hold the button is announced
   a. Press and hold the button for 2 seconds to enter the menu
   b. Menu options can be incremented by press and release of the button
   c. Menu options can be selected by press and hold the button for 2 seconds
3) The first selection will be for language
   a. The options are English (default) or Spanish
   b. Press and release button to increment the language option
   c. Press and hold the button for 2 seconds selects the language last announced
4) The next selection will be for location
   a. The options are:
      i. No location (default)
      ii. Primary bedroom
      iii. Guest bedroom
      iv. Nursery
      v. Hallway
      vi. Bedroom
      vii. Kitchen
      viii. Living Room
      ix. Family Room
      x. Dining Room
      xi. Office
      xii. Bonus Room
      xiii. Utility Room
      xiv. Upstairs
      xv. Downstairs
      xvi. Basement
   b. Press and release the button will increment to the next option
   c. Press and hold the button for 2 seconds will select the last location announced

5. Installation Instructions

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

5.1 Recommended location for alarms

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

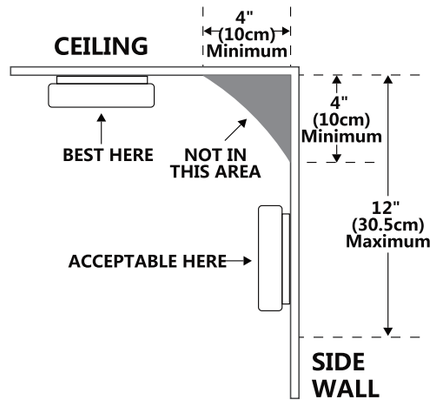
● Smoke or smoke/CO for required protection ○ Smoke or smoke/CO for additional protection △ Smoke alarm with silence control for additional protection

For your information, the National Fire Alarm and Signaling Code, NFPA 72, reads as follows:

29.5.1 *Required Detection.

29.5.1.1 Where required by applicable laws, codes, or standards for a specific type of occupancy, approved single- and multiple-station smoke alarms shall be installed as follows:

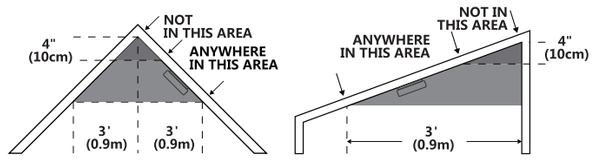
1) *In all sleeping rooms and guest rooms.
2) *Outside of each separate dwelling unit sleeping area, within 21 feet (6.4 m) of any door to a sleeping room, the distance measured along a path of travel.
3) On every level of a dwelling unit, including basements.
4) On every level of a residential board and care occupancy (small facility), including basements and excluding crawl 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 large 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).



5.2 Locations to avoid

To ensure the combo smoke/CO alarm works properly and provides detection performance, do not install the device in the following places:

1) Near appliances or areas where normal combustion regularly occurs (kitchens, near furnaces, hot water heaters). Install at least 10 feet away from these areas. Use specialized smoke alarm device with unwanted alarm control for these areas.
2) In areas with high humidity, like bathrooms or areas near dishwashers or washing machines or directly above a sink. Install at least 10 feet away from these areas.
3) Avoid spraying aerosols near the device.
4) Next to a door or window, an extractor fan, air returns or heating and cooling supply vents. Install at least 3 feet away from these areas. The air could blow smoke away from the device, interrupting its alarm.
5) In rooms where temperatures may fall below 0°C or rise above 40°C, or in humidity higher than 93%. These conditions will reduce battery life or cause a false alarm.
6) In extremely dusty, dirty, or insect - infested areas influence particles interfere with the device operation.
7) In the garage. Products of combustion are present when you start your automobile.
8) In an enclosed space (for example in a cupboard or behind a curtain).
9) Where it can be obstructed (for example by furniture).
10) Less than 4 inches (10 cm) from the peak of an "A" frame type ceiling.
11) Near fluorescent lights. Electronic "noise" may cause nuisance alarms.
12) Place out of the reach of children. Under no circumstance should children be allowed to handle the device.
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 6 feet of cooking appliances.



5.3 Installation instructions

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

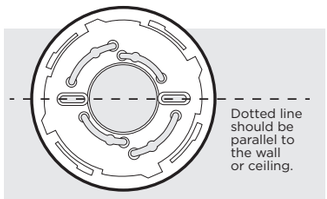
⚠ **WARNING!**-This device should be located in an open and unobstructed area and shall not be located behind furniture, drapes, or any other object where it might not be seen or heard. The alarm shall be heard from all sleeping areas.

⚠ **WARNING!**- Alarm users should add the phone numbers of their emergency service providers and qualified technicians on the two self-adhesive labels provided by the alarm manufacturer. Users should place one label next to the alarm and another near the source of fresh air they plan to gather. When the alarm indicates the presence of carbon monoxide, the user can escape as planned.
If you install only one device in your home, install the device near bedrooms, not in the basement or furnace room.

1). Drilling two φ5.0mm holes in the ceiling or wall, the distance between two holes center is 75mm (2.95 inch), then inserting two plastic anchors provided into the holes.
2). Attach the bracket to the plastic plugs and fix tightly the screws into the plastic anchors. Do NOT over-tighten screws.
3). Install and rotate the alarm body on the bracket.
4). Test the device by using the TEST/SILENCE button. Ensure the device sound is alarm pattern.

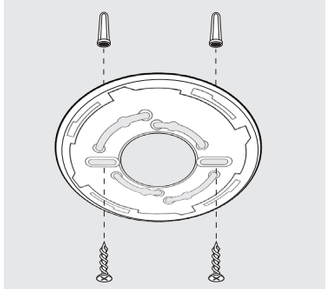
* NOTE: ACTIVATE ALARM PRIOR TO ATTACHING MOUNTING BRACKET

To align the alarm with the hallway or wall, the center holes on the mounting bracket (as identified by the dashed line in the drawing) should be parallel with the hallway when ceiling mounting or horizontal when wall mounting.



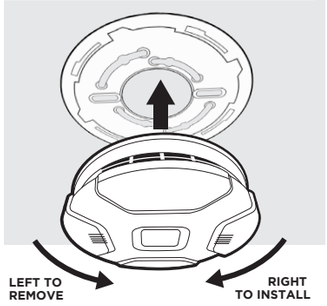
Select the proper location for the alarm as described earlier, secure the mounting bracket to the ceiling or wall. Place the mounting plate on the desired surface making sure the center holes are parallel to the wall for ceiling mount or parallel to the floor for wall mount.

Use the screws and anchors provided to secure the mounting bracket.



Insert the alarm into the mounting plate and turn unit to the right until it clicks into place.

To remove the unit or adjust the alignment, rotate the unit to the left to reach the desired position or rotate fully to remove the device.



5.4 Wiring Requirements for AC Alarms Only

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 used 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 raceway or cable as the AC power wiring. In addition, the resistance 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 detector guards 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 derived power sources. These power sources produce high peak voltages that will damage the alarm.

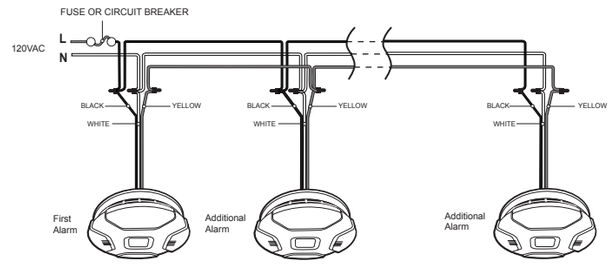
5.5 Wiring Instructions for Quick Connector Harness for AC Alarms Only

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 YELLOW WIRE TO ANYTHING.** Leave the yellow wire insulating cap in place to make certain that the yellow wire cannot contact any metal parts or the electrical box.
2) All interconnected alarms must be supplied from a single power circuit.
3) The wire colors are: **Live = Black; Neutral = White, Interconnect = Yellow.** 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 turning on the AC power to the circuit. Please review interconnect wiring diagram below.
4) Maximum number of alarms is 18 units or 12 smoke alarms and 6 non-smoke alarms.
5) Make certain alarms are wired to a continuous (non-switched) power line.

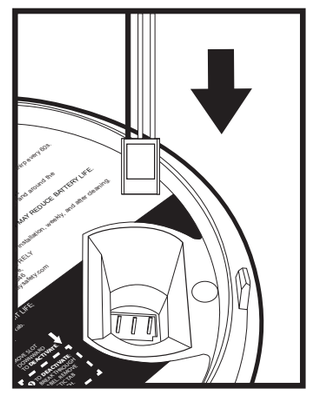
NOTE: Attaching 120VAC main power first, without activating the unit, will result in a false low battery trouble condition. The unit must first be activated before mounting to bracket to avoid false low battery notification.

NOTE: AC power must be connected to obtain the full 10 year battery and unit life. Constant exposure to high or low humidity or temperatures may reduce battery life.



NOTE: Use standard UL Listed household wire (as required by local codes) available at all electrical supply stores and most hardware stores.

6) After selecting the proper location for your alarm, and wiring the QUICK CONNECTOR harness as described previously, attach the mounting bracket to the electrical box.
7) Pull the QUICK CONNECTOR through the center hole in the mounting bracket and secure the bracket.
8) Plug the QUICK CONNECTOR Into the back of the unit, making sure that the locks on the connector snap into place. Then push the excess wire back into the electrical box through the hole in the center of the mounting bracket.
9) Install the alarm fully on the mounting bracket by rotating the alarm in a clockwise direction.
10) Turn on the 120VAC main power. The green LED will turn on when the alarm is operating from AC power.
11) This model has AC hardwire interconnect capability. When one hardwired interconnect unit sounds an alarm, all other compatible hardwire or interconnected units will also alarm.
12) Single station alarms: Test each smoke alarm. Press and release the test button until the unit alarms.
Interconnected alarms: Press and release the test button until the unit alarms. All interconnected alarms should sound. The other alarms sounding only tests the interconnect signal among alarms.
It does not test each alarm's operation. You must test each alarm individually to check if the alarm works properly. If any unit in the series does not alarm,turn off power and recheck connections. If it does not alarm when you restore power, replace it.

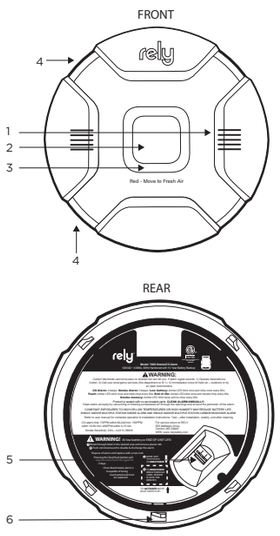


⚠ **WARNING!** - To prevent injury, this device must be securely attached to the ceiling/wall in accordance with the installation instructions.

6. Understanding Your Combo Smoke/CO Alarm

Parts of Your Combination Alarm – Model 7300/7400

1. Alarm horn/Speaker (behind cover) - communicates alerts
2. Test/Silence button – use for weekly testing or to temporarily reset/silence notifications
3. LED Status Ring – provides visual confirmation of unit status
4. LED Status Backlight – provides visual confirmation of unit status
5. Connection for wire-harness (Hardwired Unit Only)
6. Activation and Deactivation Tab – on the rear of the unit



6.1 Operation and testing

1) Operation
The alarm is operating once it is powered on and testing is complete. When the product alarms, the unit sounds a loud alarm with voice messages. See sections 1 and 2 for alarm signal descriptions.

2) Testing
Test your alarm weekly by pressing and releasing the TEST/SLIENCE button. A quick beep will confirm the button has been pushed followed by the test sequence. See Other Alarm Visual and Audible Indicators table. The alarm and voice will sound if the electronic circuitry, horn, speaker, and battery are working. If the alarm or voice does not sound, or gives erratic or low volume sound, the unit must be replaced.

⚠ **WARNING!-** Due to the loudness of the alarm, always stand about 2.5 feet away from the unit or use ear protection when testing.

⚠ **WARNING!**- Do not use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.

3) Chirping
When End-of-Life or low battery chirping begins, you can temporarily silence these chirps by pressing the TEST/SILENCE button. See Troubleshooting Guide.

⚠ **WARNING!**- Replace unit as soon as possible when in end of unit life mode.

6.2 Other Alarm Visual and Audible Indicators

Operate mode	Visual (flash)	Audible (beep/voice)	Description mode
Power-Up/ Activation	**AC Power:** The GREEN RING LED will turn ON continuously, and flash off every 60 seconds. **DC Power Only:** The GREEN RING LED will flash once upon power-up/activation.	**Voice Message:** "Congratulations you've just power up your alarm, please press the button to ensure that the unit is working."	None
Normal (Standby)	The GREEN RING LED will flash once every 60 seconds.	None	None
Test	HALO and RING LED's will flash RED at the same time as the audible smoke and CO alarm.	Voice Message: "You've started a test of this alarm, this test will be loud. You can press the button again if you'd like to stop the test. Or press and hold the button for two seconds to change the language. Or let the countdown finish and the test will start." "3", "2" , "1" "Testing" 3 Beeps Voice Message: "Danger" 3 Beeps Voice Message: "Smoke" 4 Beeps Voice Message: "Dangerous level of carbon monoxide detected." 4 Beeps Voice Message: "Evacuate immediately, call 911." "The test is complete."	Upon pressing the "TEST/SILENCE" button, the alarm will play a voice message informing the user that the test is about to start. This message will be followed by countdown messages ("3", "2", "1") and then a message saying the test is beginning.
Smoke Alarm	HALO and RING LED's will flash RED at the same time as the audible smoke alarm.	3 Beeps Voice Message: "Danger" 3 Beeps Voice Message: "Smoke" 3 Beeps Voice Message: "Location" (if assigned) 3 Beeps Voice Message: "Evacuate now"	HALO and RING LED flashes and audible alarm patterns are synchronized to appear concurrently.
CO Alarm	HALO and RING LED's will flash RED at the same time as the audible CO alarm.	4 Beeps Voice Message: "Dangerous level of carbon monoxide detected." 4 Beeps Voice Message: "Evacuate immediately, call 911." Voice message repeats during every CO alarm for the first 4 minutes, and every 60 seconds thereafter.	HALO and RING LED flashes and audible alarm patterns are synchronized to appear concurrently. After 4 minutes (minimum), the CO alarm pattern will be exhibited once per minute as part of CO conserve mode Should CO and smoke alarm conditions occur concurrently, smoke alarm behavior will take precedence
Low CO Warning	The HALO LED flashes RED 1 time every 60 seconds.	3 Chirps every 60 seconds and a Voice Message: "Low level of carbon monoxide detected, seek fresh air or open a window, press button to silence this alert, if alert recurs or if unit goes into full alarm, please follow those directions. Press button to repeat this message."	A Low CO Warning can be silenced for 24 hours by pressing the "TEST/SILENCE" button during a Low CO Warning indication. Pressing the "TEST/SILENCE" button while in Low CO Warning Silence Mode will play the Low CO Warning Silence Mode voice message.
Low CO Warning Silence Mode	The HALO LED flashes RED 1 time every 60 seconds.	Voice Message: "Your alarm is in silence mode if the level of carbon monoxide reaches dangerous level your unit will go back into alarm. Please follow those directions. Press button to repeat this message"	A Low CO Warning can be silenced for 24 hours by pressing the "TEST/SILENCE" button during a Low CO Warning indication. Pressing the "TEST/SILENCE" button while in Low CO Warning Silence Mode will play the Low CO Warning Silence Mode voice message.
Smoke Alarm Silence Mode	The HALO and RING LED's will flash RED in a smoke pattern to indicate a smoke alarm condition.	Voice Message: "Your alarm is in silence mode, if the level of smoke once again reaches a dangerous level your unit will go back into alarm."	The HALO and RING LED's will flash RED in a smoke pattern to indicate a smoke alarm condition A silenced alarm will continue to blink indications. Pressing the "TEST/SILENCE" button while the alarm is in Smoke Alarm will silence the smoke alarm for 9 minutes. If smoke levels are above a HIGH SMOKE threshold, the alarm cannot not be silenced.
CO Alarm Silence Mode	The alarm will stop flashing HALO and RING LED's while in CO Alarm Silence Mode.	Voice Message: "Your alarm is in silence mode if the level of carbon monoxide reaches dangerous level your unit will go back into alarm. Please follow those directions. Press button to repeat this message."	The alarm will stop flashing HALO and RING LED's while in CO Alarm Silence Mode. Alarm will return to CO Alarm if CO levels are at or above 70 ppm within 6 minutes. If "TEST/SILENCE" button is pressed during CO Alarm Silence Mode, voice message "The peak level of carbon monoxide detected by your unit is XX PPM. Press the button again to reset your unit." Pressing the "TEST/SILENCE" button again will clear the Peak CO level and voice message: "The peak level of carbon monoxide has been reset."
Local Smoke Alarm Memory Mode	The HALO LED flashes AMBER 2 times every 60 seconds.	Voice Message: "Smoke detected, if the level of smoke once again reaches a dangerous level your unit will go back into alarm. Your alarm has been reset."	The alarm will set the smoke memory indication when the smoke condition has cleared and returns to operational state. Smoke Memory is reset (cleared) if the user presses the "TEST/SILENCE" button or silences the alarm.
Local Smoke Alarm Memory Mode (continued)			Smoke memory automatically resets after 24 hours without the alarm entering a smoke alarm state.
CO Alarm Memory	The HALO LEDs will flash AMBER 1 time every 60 seconds (for 24 hours)	3 Chirps every 60 seconds (for 24 hours) Voice Message: "The peak level of carbon monoxide detected by your unit is…" + CO concentration in PPM + "The peak level of carbon monoxide has been reset."	Press "TEST/ SILENCE" button (to clear CO Alarm Memory)

6.3 Troubleshooting the Alarm

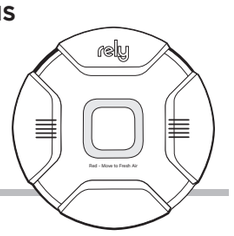
Operate mode	Visual (flash)	Audible (beep/voice)	Description mode
Low Battery Warning	The HALO LEDs will flash AMBER 1 time every 60 seconds	1 Chirp every 60 seconds and a voice message (audio) (Audio Low Battery Index) "The batteries in your unit are low."	Low Battery Warning may be silenced for 24 hours by pressing the "TEST/SILENCE" button. When the Low Battery Warning is silenced, a voice message (audio) "Your unit is in silence mode, the batteries in your unit are low."
Battery Not Activated	The HALO LEDs will flash AMBER 5 times every 60 seconds	5 Chirps every 60 seconds and a voice message (audio) (Audio Activation Index) "Your unit may not be activated, move the switch on the back of the unit to the activated position, press button to repeat this message." (followed by the Spanish translation)	
Smoke Sensor Fault Warning	The HALO LEDs will flash AMBER 1 time every 60 seconds	3 Chirps every 60 seconds and a Voice Message: "Your unit has experienced an error. Please replace the unit immediately. Unit will not respond to potential threats. Press the button to repeat this message"	Smoke Sensor Fault Warning faults cannot be silenced.
CO Sensor Fault Warning	The HALO LEDs will flash AMBER 1 time every 60 seconds	3 Chirps every 60 seconds and a Voice Message: "Your unit has experienced an error. Please replace the unit immediately. Unit will not respond to potential threats. Press the button to repeat this message"	CO Sensor Fault Warning faults cannot be silenced.
Temperature Fault Warning	The HALO LEDs will flash AMBER 1 time every 60 seconds	3 Chirps every 60 seconds and a Voice Message: "Warning temperature outside of normal operating range, please press the button to verify normal operation"	
End-of-Life	The HALO LEDs will flash AMBER 1 time every 60 seconds	2 Chirps every 60 seconds and a voice message: "Your unit has come to the end of its usable life." After 30 days, voice message: "Your unit is in silence mode, it has come to the end of its usable life."	Voice message can be silenced for 72 hours during the first 30 days of EOL condition.

6.4 LED Notifications

ALARM LED NOTIFICATIONS

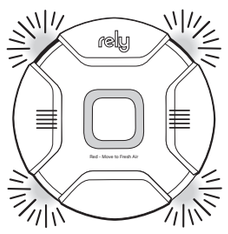
Green LED

Green LED flashes ONCE every 60 seconds.	Normal Operation: Subsequent "Test/Silence" Button pr ss



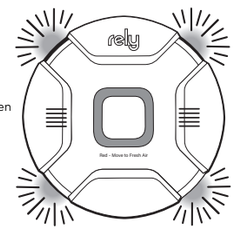
Amber LED

Amber LED flashes once every 60 seconds and chirps twice	End of Unit Life (10 years after power up)
Amber LED flashes once every 60 seconds, no chirp, for 72 hours	End of Unit Life in "Hush" Mode - "Test/Silence" Button has been pressed
Amber LED blinks once every 60 seconds and chirps 3 times.	Unit Error –Unit has gone into error for noted reason
Amber LED flashes once every 60 seconds and chirps once	Low Battery
Amber LED flashes once every 60 seconds for 24 hours	Low Battery in "Hush" mode: "Test/Silence" Button has been pressed



Red LED

Red LED flashes 4 times, one second off, repeating	Alarm condition: Dangerous levels of CO detected
Red LED flashes 4 times, one second off, repeating	Alarm condition in "Hush" Mode:"Test/ Silence"button has been pressed
Red LED flashes once every 60 seconds and chirps 3 times	Low or mid level concentrations of CO detected
Red LED flashes 1 time every 60 seconds, no chirp	Low Level Warning in "Hush" mode:"Test/ Silence" Button has been pressed
Red LED flashes 3 times, one second off, repeating	Alarm condition: Dangerous levels of smoke detected
Red LED flashes 3 times, one second off, repeating	"Hush" Mode:"Test/ Silence" button has been pressed
Red LED flashes 2 times, every 60 seconds	Smoke alarm memory mode



7. General Maintenance

To keep your combo smoke/CO alarm in good working order, please follow these simple steps:

1. Verify the unit's alarm sound and indicators operation by pressing the TEST/SILENCE button once a week.
2. Remove the unit from the ceiling and vacuum the alarm cover and vents with a soft brush attachment once a month to remove dust and dirt.
3. Never use detergents or other solvents to clean the unit.
4. Avoid spraying air fresheners, hair spray, or other aerosols near the device.
5. Do not paint the device. Paint will seal the vents and interfere with the sensor's ability to detect CO. Never attempt to disassemble the unit or clean inside. This action will void your warranty.
6. As soon as possible, place the combo smoke/CO alarm back in its proper location to assure continuous protection from fire and carbon monoxide poisoning.
7. When household cleaning supplies or similar contaminants are used, the area should be ventilated.

⚠ **WARNING!** -The following substances can affect the sensor and may cause false actions: methane, propane, isobutene, isopropanol, ethylene, benzene, toluene, ethyl acetate, hydrogen sulfide, sulfur dioxides, alcohol based products, paints, thinner, solvents, adhesives, hair sprays, after shaves, perfumes and some cleaning agents.

⚠ **WARNING!** -Your combo smoke/CO alarm will not be operational and will not monitor for smoke and CO levels without AC power or sealed battery backup.

⚠ **WARNING!** -This apparatus is designed to protect individuals from the acute effects of carbon monoxide exposure. It may not however, prevent the chronic effects of carbon monoxide exposure and will not fully safeguard individuals at special risk or with specific medical conditions. If in doubt consult a medical practitioner.

8. Carbon Monoxide (CO) Overview

Carbon monoxide (CO) is a colorless, odorless, and tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen.

8.1 Possible Sources of CO

1) Excessive spillage or reverse venting of fuel burning appliances caused by: i) Outdoor ambient conditions such as wind direction and/or velocity, including high gusts of wind; heavy air in the vent pipes (cold/humid air with extended periods between cycles), ii) Negative pressure differential resulting from the use of exhaust fans, iii) Simultaneous operation of several fuel burning appliances competing for limited internal air. iv) Vent pipe connection vibrating loose from clothes dryers, furnaces, or water heaters, v) Obstructions in or unconventional vent pipe designs which amplify the above situations.
2) Extended operation of unvented fuel burning devices (range, oven, fireplace, etc.).
3) Temperature inversions which can trap exhaust gasses near the ground.
4) Car idling in an open or closed attached garage, or near a home.

8.2 Symptoms of CO Poisoning

Initial carbon monoxide poisoning symptoms are similar to the flu with no fever and can include dizziness, severe headaches, nausea, vomiting and disorientation. Everyone is susceptible but experts agree that unborn babies, pregnant women, senior citizens and people with heart or respiratory problems are especially vulnerable. If symptoms of carbon monoxide poisoning are experienced seek medical attention immediately. CO poisoning can be determined by a carboxyhemoglobin test.

The following symptoms are related to CARBON MONOXIDE POISONING and should be discussed with ALL members of the household:

1. **MILD EXPOSURE:** Slight headache, nausea, vomiting, fatigue (often described as " Flu-like" symptoms).
2. **MEDIUM EXPOSURE:** Severe throbbing headache, drowsiness, confusion, fast heart rate.
3. **EXTREME EXPOSURE:** Unconsciousness, convulsions, cardio respiratory failure and death. The above levels of exposure relate to healthy adults. Levels differ for those at high risk. Many cases of reported carbon monoxide poisoning indicate that while victims are aware they are not feeling well, they become so disoriented they are unable to save themselves by either exiting the building, or calling for assistance. Also, young children and household pets may be the first affected.

⚠ **WARNING!**-Exposure to high levels of carbon monoxide can be fatal or cause permanent damage and disabilities.

⚠ **WARNING!**-The device may not prevent the chronic effects of carbon monoxide exposure, and that the device will not fully safeguard individuals at special risk.

9. Alarm Deactivation and Disposal

When the battery is at end of life, an intermittent "chirp" with amber LED flashes once every 60 seconds: indicating that the smoke alarm device is in low battery mode. Please scrap it according to the steps below and immediately buy another new alarm to replace it.

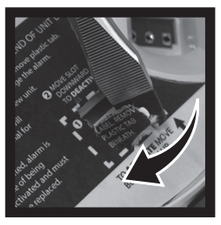
1) Locate the deactivation area on the back of the alarm. Area is identified by the dashed lines near the bottom of the unit.



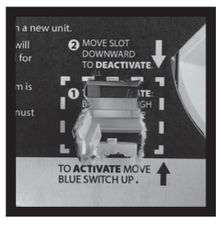
2) Use a flat head screwdriver to puncture the label within the dashed lines.



3) Use the screwdriver to break off or move the plastic tab to the side. A firm twisting motion using the screwdriver should be sufficient to break the tab. Use your hand to move the tab to the side.

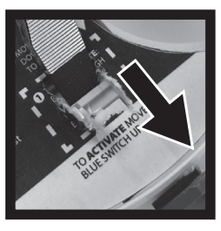


The deactivation switch should now be visible.



4) Use the screwdriver to move the switch downward. This will disable and discharge the alarm. **Once deactivated alarm cannot be reactivated and must be replaced.**

Wait for at least one day, allow the battery inside the product to be fully exhausted. You can scrap and dispose of it according to local law.



10. Product Specifications

Model: 7300/7400
Product Standards:
Conforms to UL STD 217 9th Ed. & 2034 4th Ed.
Power Supply: 7300 Sealed 10 Year Life Lithium Battery
7400 120V Hardwired Sealed with 10 Year Life Lithium Battery Backup
Hardwired Interconnection Model 7400 Only: Up to 18 Alarms
Sensor of Smoke: Optical
Smoke Alarm Sensitivity: 2.64 – 4.22% OBS/ft
Smoke Alarm Silence: About 8 minutes
CO Silence: About 5 minutes
Sensor of CO: Electrochemical
Voice Message System
CO Alarm Sensitivity Setting (Conforms to UL2034):

70 PPM	Between 60 to 240 minutes
150 PPM	Between 10 to 50 minutes
400 PPM	Between 4 to 15 minutes

Product Life: 10 years after manufacture
Temperature Operating Range: 40°F (4.4°C) to 100°F (37.8°C)
Humidity Operating Range: 10~95% RH non-condensing
Audible Alarm: ≥85dB at 10ft@ 3.0 to 3.5 KHz pulsing alarm, with voice messages "Fire!" and/or " Warning! Carbon Monoxide."
Storage/Transport Ambient Condition: -20~+50°C, 10~95% RH non-condensing
Low Battery Warning Silence: About 24 hours
Installation Location: Ceiling or wall
Detection Range: Max. 40 m² within a room.
Size: About 6 inches
Weight: 8 ounces

NOTE: This combo smoke/CO alarm is designed to detect carbon monoxide gas from any source of combustion. It is not designed to detect any other gas.

11. Recognizing Nuisance Alarms

Smoke Nuisance

SILENCE: If you know why the alarm is sounding, and you can verify that it is not a life threatening situation, you can push the button to silence the alarm for 8-10 minutes. If the smoke is not too dense, the unit will silence. After the SILENCE period, the smoke alarm will automatically reset and sound the alarm if particles of combustion are still present. You can use SILENCE repeatedly until the air has been cleared of the condition causing the alarm.

NOTE: Dense smoke will override SILENCE and sound a continuous alarm. If no fire is present, check to see if one of the reasons listed in "Locations to avoid" may have caused the alarm. If a fire is discovered, get out and call the fire department or 911.
This alarm is designed to minimize nuisance alarms. Cigarette smoke will not normally cause the unit to alarm, unless the smoke is blown directly into the alarm. Combustion particles from cooking may set off the alarm if it is located too close to a cooking appliance. Large quantities of combustible particles are generated from spills or when broiling. Using the fan on a range hood which vents to the outside (non-recirculating type) will also help prevent nuisance alarms from occurring by removing these combustible products from the kitchen.

Carbon Monoxide (CO) Nuisance

RESET: Pushing the button during CO alarm allows the unit to reset calculations and double check for the presence of CO. If the unit re-alarms within 6 minutes, it is sensing high levels of CO which can quickly become a dangerous situation. Exit to fresh air and call 911.

⚠ **WARNING!** - It is impossible to determine the source of a co alarm using sight or smell. Always consider a co alarm event as dangerous.

12. Warranty Information

TEN YEAR LIMITED WARRANTY

Dear Customer,

Our products are subject to strict quality controls. However, if this device should unexpectedly not function perfectly, please contact the customer services address given on warranty service information. This is the only way for you to be able to return your device .
The warranty period is 120 months and begins on the day of purchase.
Please always keep your receipt as proof of purchase. Warranty claims can only be made for possible defects caused by material and production faults.

During the warranty period, defective devices can be sent to the service address given (post paid). You will then receive a new or repaired device back free. After the warranty period has expired you still have the possibility of sending the defective device for repair to the address given. Repairs carried out after the warranty period must be paid for.
In the event of misuse or improper treatment, use of force or intervention not carried out by our authorized service branches, the warranty is no longer valid. This warranty does not restrict your legal rights.

NOTE: In the event of a warranty claim, please return the till receipt and completed warranty card with fault description together with the defective device.

13. Warranty Card

Last Name: _____
First Name: _____
Phone: _____
Address: _____
City: _____
Country: _____
Zip Code: _____
Fault description: _____
Date of purchase: _____
Signature: _____

14. Manufacturer and Customer Service Information

14.1 Manufacturer:

RELY ADDRESS:
30440 MS-41
Nettleton, MS 38858

Made in Mexico

E-MAIL: www.relysafety.com

40028 R1