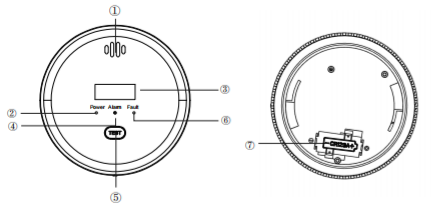
smoke & carbon monoxide combined detector

English

I. Introduction

This Wireless Interlinked combination smoke and carbon monoxide alarm conforms with EN14604:2005+AC2008 and EN50291-1:2018 Standards and is designed to detect both smoke and carbon monoxide.

Product Profile



①Buzzer
②Power Indicator
③LCD Display
④Alarm Indicator
⑤Test /Silence Button
⑥Fault Indicator
⑦Battery Compartment

△ IMPORTANT

1.DANGERS,WARNINGS,AND CAUTIONS ALERT YOU TOIMPORTANT OPERATING NSTRUCTONS ORTO POTENTIALLY HAZARDOUS SITUATIONS.PAY SPECIALATTENTION TO THESE SITUATIONS.
2.THIS COMBINATION SMOKE&CARBON MONOXIDE ALARM IS ONLY APPROVED FOR HOME USE.
3.THIS CARBON MONOXIDE ALARMIS DESIGNED TO DETECT CARBON MONOXIDE FROM ANY SOURCE OF COMBUSTION.
4.CONSTANT EXPOSURES TO HIGH OR LOW HUMIDITY MAY REDUCE BATTERY LIFE.
5.SMOKE ALARMS ARE NOT TO BE USEDWITH DETECTOR GUARDS UNLESS THE COMBINATION HAS BEEN EVALUATED AND FOUND SUITABLE FOR THAT PURPOSE.

△ CAUTION

THIS SMOKE&CARBON MONOXIDE ALARM HAS TWO SEPARATE ALARMSWHICHWORK INDEPENDENTLY.THE CARBON MONOXIDEALARMIS NOT DESIGNEDTO DETECT FIRE OR ANY OTHER GAS.ITWILL ONLY INDICATE THE P RESENCE OF CARBON MONOXIDE GAS AT THE SENSOR.CARBON MONOXIDE GAS MAY BE PRESENT INOTHER AREAS.THE SMOKE ALARMWILL ONLY INDICATE THE PRESENCE OF SMOKE THAT REACHES THE SENSOR.THE SMOKE ALARM IS NOT DESIGNED TO DETECT GAS,HEAT OR FLAMES.

△ WARNING

1.IF THERE IS ANY QUESTION AS TO THE CAUSE OF AN ALARM IT SHOULD BE ASSUMED THAT THE ALARM IS DUE TO DANGEROUS LEVELS OF CARBON MONOXIDE OR SMOKE AND THE DWELLING SHOULD BE EVACUATED.
2.NEVER IGNORE ANY ALARM.FAILURE TO RESPOND CAN RESULT IN SERIOUS INJURY ORDEATH.
3.THE SILENCE FEATURE IS ONLY FORYOUR CONVENIENCE AND WILL NOT CORRECTAPROBLEM.ALWAYS CHECKYOUR HOME FOR A POTENTIALPROBLEM.AFTER ANY ALARM.FAILURE TO DOSO CAN RESULT IN INJURY OR DEATH.
4.TEST THIS SMOKE/COALARM ONCE AWEEK.IF THE ALARM EVER FAILSTO TESTCORRECTLY,REPLACEIT IMMEDIATELY!IF THE ALARM CANNOTWORK PROPERLY,ITWILLNOT ALERTYOU TOAPROBLEM.
5. THIS PRODUCTIS INTENDED FOR USE INORDINARY INDOOR LOCATIONS OF FAMILY LIVING UNITS AND DOES NOT COMPLY WITH CARBON MONOXIDE MONITORING STANDARDS FOR INDUSTRIAL SETTINGS INDIVIDUALS WITH MEDICAL CONDITIONS THAT MAY MAKETHEM MORE SENSITIVE TO CARBON MONOXIDE MAY CONSIDER USINGWARNINGDEVICESWHICH PROVIDE AUDIBLE ANDVISUALSIGNALSFOR CARBON MONOXIDECONCENTRATIONS UNDER 30 PPM.FOR ADDITIONAL INFORMATION ON CARBON MONOXIDE ANDYOUR MEDICAL CONDITION CONTACTYOUR PHYSICIAN.
6.THE REPLACEMENT DATE THAT APPEARS ON THE DEVICE ISTHE DATE BEYONDWHICHTHE DEVICE MAY NO LONGER DETECT CARBON MONOXIDE ACCURATELY AND SHOULDBE IMMEDIATELY REPLACED.
7.THIS DEVICE IS DESIGNED TO PROTECT INDIVDUALS FROM THE ACUTE EFFECTS OFCARBON MONOXIDE EXPOSURE.IT MAY NOT FULLY SAFEGUARDINDIVDUALSWITHSPECIFICMEDICAL CONDITIONS.IF IN DOUBT, CONSULTAMEDICALPRACTITIONER.

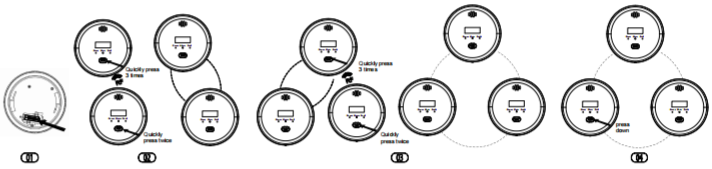
II. How to Set Up and Interconnect Wireless Alarms

All wireless interlinked alarms contain a built-in RF module that enables you to wirelessly connect 2 or more interlinked alarms and create an interlinked network.When one unit is triggered,all interconnected alarms will sound.the wireless interlinked alarms in one multi-pack have already been interconnected,and the alarms in each multi-pack have their own independent interlinked network.
If you have multiple multi-packs and need to connect them all to the same network, you must disconnect each alarm within one multi-pack, select one multi-pack as the base network, and connect the other disconnected alarms to it.
NOTE! The following instructions regarding wireless interconnection are applicable to wireless interlinked alarms only.

III. How to Interconnect

1.Make sure you only work with 2 units at a time,and that they are both activated to ensure successful connection.
NOTE:To activate your alarm,remove the back cover from the device and install the battery from the battery compartment.To learn how to turn on different models of wireless interlinked alarms,please refer to their specific user manuals for more details.
2.Quickly press the test/silence button on one of the 2 units 3 times;it will beep twice and the green LED will flash rapidly indicating it has entered pairing mode and is waiting for a new unit to be added.
Quickly press the Test /Silence button on the other device twice; it will beep once and the green LED will flash slowly to indicate that it is in search mode and is searching for a device to connect to.
3. After a successful search and the creation of an interconnected group, both devices will emit a beep, the device in search mode will automatically exit interconnected mode, the device's green LED will blink once every 60 seconds to indicate that it is in normal standby mode,and the device in pairing mode will have it is green LED blinking rapidly to indicate that it is still waiting for a new device to be added.
4. If you want to connect a third device to the group, first follow the instructions to activate a new device, then quickly press the Test/ Mute button on either of the two previously interconnected devices 3 times, the device will beep twice, and the green LED will flash rapidly, indicating that it is ready to add the new device to the network. device is ready to be added to the network. Next, press the Test /Silence button on the new device twice quickly, the green LED will flash slowly indicating that it has entered search mode and is searching for a device to connect to.When the third device has beensuccessfully added to the interconnect network, both devices will emit a beep, and the device in search mode will automatically exit interconnect mode, and the device in pairing mode, the green LED will beep twice. For devices in pairing mode, the green LED will flash rapidly to indicate that it is still waiting for a new device to be added.
5.If you want to connect more units,simply repeat step 4.Up to 200 alarms can be interconnected this way.To ensure that all alarms enter the same interlinked network,make sure you only work with 2 units at a time—one unit enters the pairing mode and the other unit enters the searching mode.
6. Short press the Test /Silence button of the paired mode device once,the paired mode device automatically exits the interconnect mode, and the red LED of the device blinks once in 60 seconds to indicate that it is in normal standby mode.
7.Test the alarms according to the steps in the section“Alarm Test.”

NOTES
1.If needed,press the test/silence button once while the alarm is in the searching mode or the pairing mode,and the green LED will stop flashing and the alarm will quit the searching mode or pairing mode to enter normal status
2.Test all wireless alarms to ensure they are interconnected before installation.
3.A maximum of 200 wireless alarms can be interconnected on the same network.



IV. How to Disconnect

Hold down the Test/Silence button until it beeps once and the green LED flashes once. then release the button to disconnect.,it can be reconnected to the same network,or added to a new network.
NOTES: The wireless interlinked alarms within a multi-pack are factorypreconnected to establish a new independent network Manually you must disconnect each alarm in the multi-pack individually to prevent them all from joining the same network.

Alarm Test

Be sure to test your alarms when you turn them on for the first time,or when the group configuration has changed.In addition to the weekly tests you should perform,it is recommended to test the alarm after returning from along trip or vacation.

Test a Single Alarm		Test All Interconnected Alarms
Action	Press the test/silence button.	Press the test/silence button.
Indication	·The alarm will emit 2 sets of3 long beepsfollowed by 2 sets of4 quick beeps. The LED will flash red during the audible signal. ·After testing,the alarm will automatically enterstandby mode.	· The other interconnected devices in the network will receive the signal after 5 seconds, then they will emit 2 sets of 3 long beeps followed by 2 sets of 4 fast beeps. the LED will flash red while giving an audible signal. · The device test should be completed within 3 minutes. · After the test is completed, the device will automatically enter standby mode.

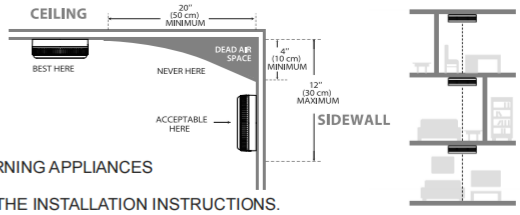
NOTE:The test function accurately tests the alarm's circuits without the need to test with smoke and CO.If your alarm fails to give an audible test signal,please immediately refer to the troubleshooting guide at the end of this manual.Never use an open flame to test this device.

V. Installation Positioning

NOTE:If an alarm is installed in a kitchen,ensure it has an accessible silence button,and install it as far away from the stove and sink as possible to avoid false alarms.
1.Prioritize the installation of an alarm in the bedroom and walkways,and make sure you can hear the alarm from all sleeping areas.Ina home with several bedrooms,install an alarm in every bedroom.If you install only one smoke alarm in your home,install the alarm near to all bedrooms where possible,and not in a basement or furnace room.
2.Install an alarm above the stairway and on every floor of the house.
3.Smoke,heat and anything burning will spread horizontally after rising to the ceiling,so install the alarm in the middle of the ceiling where possible.Ensure that the alarm is installed at the minimum distance away from corner.
4.If an alarm cannot be installed in the middle of a ceiling,install t at a distance of 20 in(50 cm)away from the corners of the room.
5.If an alarm is installed onto a wall,a distance of 4-12in(10-30 cm)should be kept below the ceiling.
6. If the length of a room or hall is beyond 30ft(900 cm),several alarms should be installed in the same room.
7.When the wall or ceiling is angled,the alarm needs to be installed within 3ft(90cm) of the highest wall or ceiling point(measured horizontally)in the room.
8.In multi-level houses or apartments,install at least one wireless alarm on each level and keep them installed in a straight vertical line(see diagram)with as few obstacles between each of the interconnected alarms as possible to ensure optimal signal transmission.

Locations to Avoid:

1.Near large metal surfaces and/or bundles of wire.
2.Near fluorescent lights,amateur radios,electrical equipment,or other devices that may transmit an RF signal,as electronic"noise"may cause nuisance alarms.



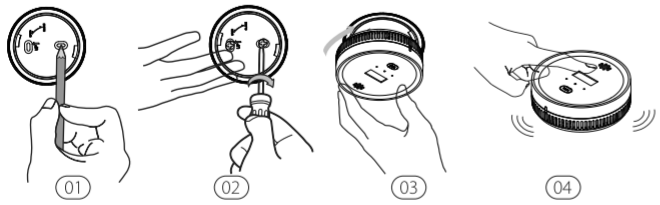
△ WARNING

1.THS ALARM SHOULD BEINSTALLED BYACOMPETENT PERSON.
2.ALARMS SHOULD NOT BE USED ASASUBSTITUTE FOR PROPER INSTALLATION,USE AND MAINTENANCE OF FUEL-BURNING APPLIANCES INCLUDINGAPPROPRIATE VENTILATION AND EXHAUST SYSTEMS
3.TO PREVENT INJURY,THIS DEVICE SHOULDBE SECURELY ATTACHED TO THE CEILING OR WALLINACCORDANCEWTHTHE INSTALLATION INSTRUCTIONS.
4.BATTERIES SHOULD NOT BE EXPOSEDTO EXCESSIVE HEAT SUCH AS DIRECT SUNLIGHT,FIRE,ETC.

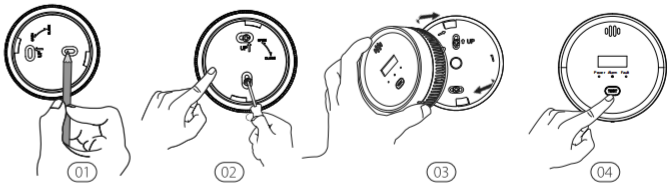
Installation Method

NOTE:Before installation,it is recommended to test the interconnected alarms in the rooms where you intend to install them to ensure that they are within transmission range and that nothing will interfere with their communication.
1.Use the mounting bracket to mark the screw holes on the ceiling or the wall
2.Drill holes at the 2 marks using an appropriately-sized drill bit.Insert the anchor plugs and screw the mounting bracket using the screws provided.
3.Attach the alarm to the mounting bracket and turn clockwise to lock the alarm.
4.Test the alarm according to the steps in the section"Alarm Test"

Ceiling installation



Wall installation



Battery Replacement

1.To replace the battery,detach the alarm from the mounting bracket by twisting counterclockwise.
2.Pull the battery removal tab to remove the battery,and then install a new battery, matching the correct polarity markings.
3.Test the alarm,and then mount the alarm onto the mounting bracket by twisting clockwise to lock the alarm.

VI. LCD Indicator and Audible Alarm

Mode		LCD Display	LED Indicator	Audible Alarm	Remarks
Powering On			Green/red/yellow flashing 5 times simultaneously	1 quick beep.	Make sure the battery is installed correctly and the device is turned on
Standby Mode			Flashes green once every 60 seconds	None	None
Alarm Mode	Device detects smoke and initiates an alarm.		Red LED flashes cyclically every 0.5 seconds	Cyclic beeps every 0.5 seconds	Dangerous smoke concentration is detected.Open near by windows and doors, and immediately move to fresh air
	Device detects CO and initiates an alarm.		A CO concentration ranging from 50 to 500 ppm has been present for a certain time period.The LED indicator flashes red 4 times every 5.8 seconds.	4 quick beeps repeating every 5.8 seconds.	Dangerous CO concentration is detected,and has reached the alarm status.Open nearby windows and doors,and immediatelymove to fresh air.
	Device detects CO(alarm not initiated)		A CO concentration level ranging from 50 to 500 ppm has been detected,but for less than the allotted detection period.The LED indicator flashes green once every 60 seconds	None.	Dangerous CO concentration is detected,but has not reached the alarm status.Potentially dangerous CO conditions exist.Please search for the CO source first.Open nearby windows and doors,and immediately move to fresh air.
Test Mode			2 sets of 3 red flashes followed by 2 sets of 4 red flashes.	2 sets of 3 long beeps followed by 2 sets of 4 quick beeps	Press the test/silence button.
Silence Mode	Smoke alarm		Red LED flashes cyclically every 0.5 seconds	None.	Smoke silence mode:After 10minutes, the device will exit silence mode.
	Co alarm		Flashes red 4 times every 5.8 seconds.	None.	CO silence mode:After 10 minutes, the device will exit silence mode.
	Low battery alarm		Flashes yellow once every60 seconds.	One beep every 60 seconds.	Silence mode during low battery:After 12 hours,the device will exit silence mode.
	Sensor malfunction alarm		Flashes yellow 2 times every 60 seconds.	2 beeps every 60 seconds.	Silence mode during Sensor malfunction:After 12hours,the device will exit silence mode.
	End of life alarm		Flashes yellow 3 times every 60 seconds.	3 beeps every 60 seconds.	Silence mode during End of life:After 12 hours,the device will exit silence mode.
Low Battery			Flashes yellow once every 60 seconds.	One beep every 60 seconds.	Replace the device battery immediately.
Fault			Flashes yellow 2 times every 60 seconds.	2 beeps every 60 seconds.	The device has malfunctioned and must be replaced immediately
End of Life			Flashes yellow 3 times every 60 seconds.	3 beeps every 60 seconds.	Replace the device immediately.

VII. Technical Specifications

Power Supply	DC 3V (replaceable CR123A lithium battery)
Standby Current	< 35μA
Alarm Current	< 100mA
Sensor Type	Smoke:Photoelectric; CO:Electrochemical
Safety Standards	EN14604-2005 and EN50291-1: 2018
CO Sensitivity	30 ppm:Before and after 120 minutes, no alarms ; 50 ppm:60-90 minutes; 100ppm:10-40 minutes; 300ppm:0-3 minutes
Installation Location	Ceiling or wall
Operating Temperature	-10℃~+55℃
Operating Relative Humidity	< 95%(non-condensing)
Alarm Loudness	≥85dB at 3m@3.2 ± 0.3kHz pulsing alarm
Silence Duration	About 10 minutes
Operating Frequency	868MHz
Maximum Number of Interconnected Units	200 wireless alarm
Transmission Range	Over 250 min open air
Product size	Φ120*40mm
Weight	154g

VIII. Alarm Mode

After the wireless interconnected alarm is networked, any device in the network detects a dangerous situation will trigger a network-wide linkage alarm.
1. If the device is triggered by smoke:When a smoke alarm in the interconnected network is triggered, the LCD of the alarm will display “F”, the buzzer will beep every 0.5 seconds, and the red LED will flash at the same frequency, and the other interconnected alarms will do the same, and their LCD will display “F”. The buzzer will beep every 0.5 seconds, the red LED will flash at the same frequency and the alarm will stop when the smoke concentration level drops below the alarm threshold.
2. if the device is triggered by carbon monoxide:When one of the carbon monoxide alarms in the interconnected network is triggered, the LCD of that alarm will display the CO concentration and the buzzer will beep 4 times every 5.8 seconds while the red LED flashes 4 times every 5.8 seconds, the same will happen with the other interconnected alarms, their LCD will display the CO concentration and the buzzer will beep 4 times every 5.8 seconds while the red LED flashes 4 times every 5.8 seconds. The alarm will stop when the CO concentration level drops below the alarm threshold.

NOTES

When one unit is triggered,other interconnected units will sound.If the smoke alarm and CO alarm are triggered in the network at the same time,the alarm signal of the smoke alarm will take priority over that of the CO alarm.

IX. Silence Mode

Smoke Silence Mode:Press the test button during an alarm to have the unit enter silence mode for 10 minutes.If the smoke concentration has reached an alarm level,after the silence time has expired,this unit will continue to alarm until the smoke concentration decreases to a safe,low level.Otherwise,the alarm will enter the normal mode after 10minutes.
CO Silence Mode:Press the test button during an alarm to have the unit enter silence mode.If the CO density still exceeds the alarm threshold,the unit will re-enter alarm state Otherwise,the unit will exit the silence mode after 10 minutes and resume normal operation.
NOTES
1. You can silence all interconnected units by pressing the test/silence button on one of the units.if one unit is still alarming,it is the initiating unit (the unit that detected danger);to silence all interlinked units, you must also press the test/silence button on the initiating unit.While interconnected,the initiating unit cannot be triggered again during the 10-minutesilence duration.However,all other interconnected units can be triggered again if they detect danger during the silence mode.
2. Carbon monoxide concentration greater than 300 ppm cannot be muted.

·Battery life is calculated on the current ratings in the standby mode with weekly testings.If its operation mode changes to an alarming condition,the battery life will be decreased accordingly.
·The alarm functions between -10℃ and 55℃.Prolonged exposure to temperatures outside of this range can reduce battery life and affect accuracy.We do not recommend operating the device outside of this range.

X. Maintenance

To keep your smoke/CO alarm in good working order,follow these simple steps:
1.Verify the unit's alarm sound and indicator are working properly by testing the unit once a week.
2.As a minimum your alarm should be cleaned once every 3 months:Remove the unit from the ceiling and clean the alarm cover and vents with your vacuum cleaner fitted with the soft brush attachment 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 alarm.
5.Do not paint the unit.Paint will seal the vents and interfere with the sensor's ability to detect fire or CO.
6.Never attempt to disassemble the unit or clean inside.Doing so will void your warranty.
7.When removed,place the alarm back in its proper location as soon as possible,to ensure continuous protection from fire.
8.When household cleaning supplies or similar contaminants are used,the area should be ventilated.

XI. Troubleshooting

PROBLEM	SOLUTION
Your combination smoke and carbon monoxide does not sound during testing.	·Please ensure the battery is properly installed in the alarm. Make sure you push the test/silence button firmly ·Check the installation positioning.The wireless signal might be blocked or out of range
False alarms triggered intermittently or when residents are cooking,taking showers,etc.	·Check the location of your alarm(see "Installation Positioning") Clean the alarm(see "Maintenance")
LED flashes yellow and the alarm sounds 1 beep every 60 seconds	The battery is low.Replace the battery immediately.
LED flashes yellow 2 times every 60 seconds with 2 beeps	The alarm is malfunctioning.Please clean your alarm or push the test/hush button once to attempt to reset the unit.If the problem still occurs,replace the alarm immediately.
LED flashes yellow 3 times every 60 seconds with 3 beeps	The maximum lifetime(10 years)is reached. Push the test/hush button once to silence for 22 hours. Replace the alarm immediately.

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference receiv ed,including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, p ursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against h armful interference in a residential installation. This equipment generates uses and can radiate radio freq uency energy and, if not installed and used in accordance with the instructions, may cause harmful interfe rence to radio communications. However, there is no guarantee that interference will not occur in a partic ular installation. If this equipment does cause harmful interference to radio or television reception, which c an be determined by turning the equipment off and on, the user is encouraged to try to correct the interfer ence by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help important announcement .

Radiation Exposure Statement

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.