

成品尺寸：540*200mm

Interlinked Smoke and Carbon Monoxide Alarm
User Manual

Model: JKD-515COM-R Manual ver: V1.0.0

EN

Thank you for purchasing this Combination Smoke and Carbon monoxide alarm.
This instruction manual contains important information on starting operation and using the device. store this manual in a safe place for future reference. the instruction manual is a part of the device – bear this in mind if you pass on this device to others.
Please take a few minutes to thoroughly read the manual and familiarize yourself and your family with its operation.

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1. What to do if the Smoke Alarm Sounds

Smoke alarm pattern is four beeps, repeating every 5 seconds. the Red-Smoke Alarm light flashing, LCD shows fixed value 0.25 and smoke, db/m symbol. The smoke alarm and CO alarm will circular proceed when both smoke and carbon monoxide are present.

What to do in case of fire.

1. Do not be panic, stay calm.
2. Leave the building as quickly as possible. touch doors to feel if they were hot before opening them. use an alternate exit if necessary. crawl along the floor, and do stop to collect anything.
3. Meet at a pre-arranged meeting place outside the building.
4. Call the fire department form outside the building.
5. Do not go back inside a burning building. wait for the fire department to arrive.

2. What to do if the CO Alarm Sounds

CO alarm pattern is four beeps repeating every 6 seconds. the Red-CO Alarm light flashing, LCD shows real-time concentration value and CO, PPM symbol. **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.
- The following symptoms are related to CARBON MONOXIDE POISONING and are to 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, cardiorespiratory failure, death.
- 4) Many cases of reported CARBON MONOXIDE POISONING indicate that while victims are aware they are not well, they become so disoriented they are unable to save themselves by either exiting the building or calling for assistance. Young children and household pets are typically the first affected.

WARNING!

Two self-adhesive labels, one label place next to the alarm, and the other label near a source of fresh air.

3. Product Important Information

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.

CAUTION! This alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

CAUTION! This Combo Smoke/CO alarm was designed to detect both smoke and carbon monoxide from any source of combustion in a residential environment. It is not designed for use in recreational vehicle (RV) or boat.

CAUTION! This Combo Smoke/CO alarm was designed for indoor use only. Do not expose to rain or moisture. Do not knock or drop the alarm. Do not open or tamper with the alarm as this could cause malfunction.

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. **CAUTION!** 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 Combo Smoke/CO alarm is not intended to alert hearing impaired individuals.

WARNING!- Do NOT try to repair the device, it has the risk of electric shock or malfunction if the device is tampered with.

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.
2. If you're sure it isn't a really alarm, open windows or fan the air around the device for 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. Do not install in non-residential buildings. And the device is not a substitute for a complete alarm system.

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 dangerous except in the area or room in which it is installed.

6. This Combo Smoke/CO alarm can only sound their alarms when they detect smoke or detect 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 this circs, Smoke may not remake the unit alarm QUICKLY ENOUGH to ensure safe escape.

7. This Combo Smoke/CO alarm have limitations. The device is not foolproof and is not warranted to protect lives or property from fire. Smoke alarm or/ 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 unit every 10 years.

Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm, when the carbon monoxide concentration in the environment is lower than 30ppm and higher than 20ppm, the LCD backlight will light up and the LCD will display the real-time concentration value.

An indication that current studies have shown smoke alarms may not awaken all sleeping individuals, and that it is the responsibility of individuals in the household that are capable of assisting others to provide assistance to those who may not be awakened by the alarm sound, or to those who may be incapable of safely evacuating the area unassisted.

The various situations against which the smoke alarm may not be effective, for example:

- 1) Fires where the victim is intimate with a flaming initiated fire; for example, when a person's clothes catch fire while cooking;
- 2) Fires where the smoke is prevented from reaching the smoke alarm due to a closed door or other obstruction;
- 3) Incendiary fires where the fire grows so rapidly that an occupant's egress is blocked even with properly located smoke alarms.

WARNING!

Conditions which can result in transient CO situations, such as:

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 ven 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 fue 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.

4. Installation Instructions

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

"29.5.1 "Required Detection"

"§9.5.1.1 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 ft (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 guard 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

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NOTES

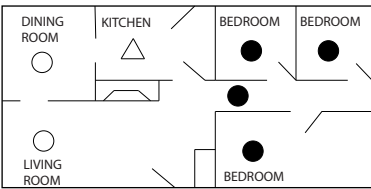
THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).

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

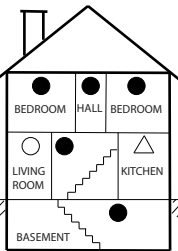
4.1 Recommended location for alarms

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

SINGE FLOOR PLAN



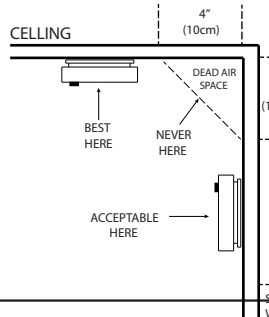
MULTIPLE FLOOR PLAN



- Smoke or smoke/CO alarms for required protection
- Smoke or smoke/CO alarms for additional protection
- △ Smoke alarm with silence control for additional protection

1. Install in a bedroom or hallway located close to the sleeping area. Take special care to verify the alarm can be heard in sleeping areas. If more than one sleeping area exists, locate additional alarms in each sleeping area.
2. Locate a device in every bedroom.
3. It is recommended that a Combo Smoke/CO alarm be installed on each level of a multilevel home.
4. Locate a device in every room where electrical appliances are operated (i.e. portable heaters or humidifiers).
5. Locate 10 feet away from all fuel burning appliances.
6. Placing at eye level allows for optimum monitoring of the red and green indicator lights.
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 meters) 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 (10cm) and maximum of 12 inch (30.5cm) 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 3feet (0.9m) of the highest point (measured horizontally).

• The alarm, including a sensor, is not to be located within 5 feet(1.5m) of any cooking appliance.

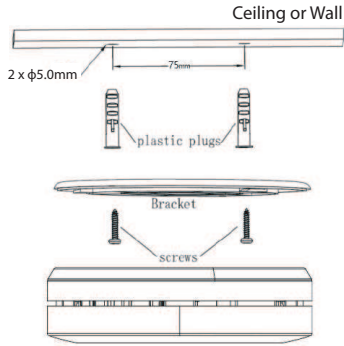


4.2 Locations to avoid

For ensure the Combo Smoke/CO Alarm work properly and provide detection performance, do not install the device in the following places:

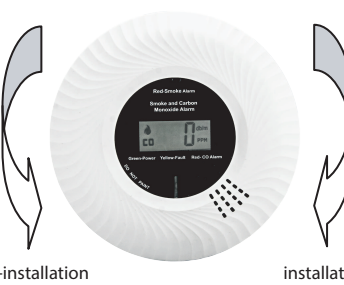
1. Near appliances or areas where normal combustion regularly occurs (kitchens, near furnaces, hot water heaters). Install at least 10 feet away from these areas. Use specialized smoke alarm device with unwanted alarm control for this areas.
2. In areas with high humidity, like bathrooms or areas near 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 4.4 C or rise above 37.8 C, or in humidity higher than 95%. These conditions will reduce battery life or cause a fault 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"(10cm) 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.

As you install the device, it maybe will sound for several minutes, then stop and enter in normal operation mode. If it always sounds, please call our agent.



4.4 Un-installation instructions

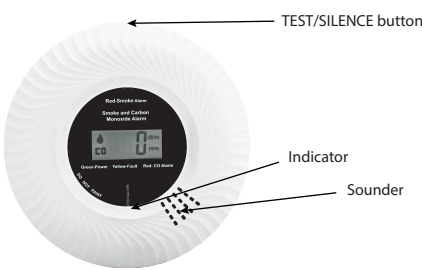
Rotate clockwise for installation
Rotate counter clockwise for un-installation



CAUTION! This Combo Smoke/CO alarm MUST be installed on the matching bracket.

5. Understanding your Combo Smoke/CO Alarm

5.1 Product overview



1. POWER indicator(green)
The green indicator is used to indicate power status of the device. The green indicator will flash every 40 seconds.
2. FAULT indicator(yellow)
The yellow indicator is used to indicate malfunctions or low battery warning status of the device.
3. ALARM indicator (red)
The red indicator is used to indicate alarm status of the smoke alarm or CO alarm.

4. TEST/SILENCE button
The TEST/SILENCE button is used to test the device and to silence the unit during a smoke alarm. Press and hold to enable TEST function, Or press to enable SILENCE function.
5. Sounder
The sounder is used to send out smoke alarm, CO alarm warning and abnormal warning information.

5.2 Operation and testing

1. Start up

After turn the power switch to the ON position, three color indicators (green/ yellow/red) will light up briefly and the device confirms start-up with a beep, enters into the preheating countdown.

After power on, 90 seconds before the POWER indicator (green) flash every 2 seconds, this is preheated state, 90 seconds later the POWER indicator(green) flashing every 40 seconds indicates the device is functioning properly.

2. Normal operation

The POWER indicator(green) flashing every 40 seconds.

3. Fault warning

If the device chirps twice every 40 seconds, with Yellow-Fault flashes, and LCD display "Err." It indicates the device is in sensor malfunction condition, that means your device has no detecting feature and no respond to smoke or CO. **CAUTION!** When Fault warning occur, replace the device immediately. Please contact us to more service.

4. Low battery voltage warning

If the device chirps once every 40 seconds, with FAULT indicator (yellow) will be flash. It indicates the battery is low. **NOTE:** When the low battery voltage warning is occur, the device has capable of producing a smoke alarm signal or CO alarm signal for at least 4 min or 30 days of low battery voltage warning signal operation.

WARNING! You need to replace a new device as possible as soon when the device enters this status.

WARNING! The device will not protect against the risk of smoke and carbon monoxide poisoning when the battery has drained.

5. Smoke alarm

When the device detects a dangerous level of smoke, the device will emit a smoke alarm pattern. The smoke alarm signal pattern is 4 beeps followed by 1 seconds of silence. This cycle repeats as long as a dangerous smoke condition exists. The Red-Smoke Alarm light will flashing the same pattern. This signal will repeated until dissipation of smoke or the alarm signal is manually silenced.

CAUTION! Refer to "1. What to do if the smoke alarm sounds" when you hear the sounds of the smoke alarm warning.

DANGER! If the alarm sounds, and it is not being tested, it means the unit is sensing SMOKE/CO, THE SOUND OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

6. Smoke alarm silence

During the device under smoke alarm mode, push the TEST/SILENCE button, it will be paused the device alarm sound for approx 5 minutes. The ALARM indicator(red) will keep flash as smoke alarm mode, it indicates the device is running into the smoke alarm silence mode. This Combo Smoke/CO alarm is designed to minimize nuisance alarms. Combustion particles from cooking may set off the alarm if the alarm is located close to the cooking area. Large quantities of combustible particles are generated from spills or when grilling/ frying. Using the fan on a range hood that vents to outside (non-recirculating type) will also help remove these combustible particles from the kitchen. The smoke alarm silence (TEST/SILENCE button) is extremely useful in a kitchen area or other areas prone to nuisance alarms. The silence feature is to be used only when a known alarm condition, such as smoke from cooking activates the alarm. The device is desensitized by pressing the TEST/SILENCE button on the smoke alarm cover, the device will silence to indicate that the device is in a temporarily desensitized condition.

The Combo Smoke/CO alarm will automatically reset after approx 5 minutes, if after this period, particles of combustion are still present, the alarm will sound again.

The smoke alarm silence (smoke alarm silence mode) can be repeatedly until

the air has been cleared of the condition causing the alarm.

CAUTION! Before using the smoke alarm silence (silence), identify the source of the smoke and be certain a safe condition exists.

7. CO alarm

When the device detects a dangerous level of CO, the device will emit a loud alarm pattern. The alarm signal pattern is 4 beeps followed by 2 seconds of silence. This cycle repeats as long as a dangerous CO condition exists. The Red-CO Alarm will flashing the same pattern. This signal will repeated until dissipation of CO.

CO alarm sensitivity Setting:

Conforms to UL 2034
70PPM Between 60 to 240 minutes
150PPM Between 10 to 50 minutes
400PPM Between 4 to 15 minutes

If the CO concentration detected exceed 20PPM and no more than alarm setting concentration, the LCD shows real-time concentration value and CO, PPM symbol, the device will not alarm.

NOTE: The Smoke alarm and CO alarm will circular proceed when both smoke and carbon monoxide are present, and the LCD will switch the display once for 1s, alternately displaying the CO alarm and the SMOKE alarm.

CAUTION! Refer to "2. What to do if the CO alarm sounds" when you hear the sounds of the CO alarm warning.

8. Test the device

To test the device, pressing TEST/SILENCE button, you should heard alarm sound patterns and with a corresponding ALARM indicator(red) flashes. **NOTE:** After the TEST/SILENCE button is enabled, the alarm sounds and the red alarm light flashes. This does not indicate that CO is present.

NOTE: Test the unit weekly! If at any time your unit does not perform as described, replace it immediately.

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

WARNING!- Due to the loudness (85 decibels) of the alarm, Always stand an arms-length away from the unit when testing.

9. End of life warning

The sensor max life is 10 years after manufactured, when the life of the sensor ends, it will have a prompt, the buzzer sounds 3 times, yellow indicator flashes 3 times at the same time per 50 seconds, and LCD display "End." it indicates this Combo alarm is in end of life. That means your device has no detecting feature and no respond to smoke and CO. Please change a new detector.

NOTE: You need to replace the device as soon as possible when the device enters this status.

5.3 Trouble shooting

CAUTION! Do not attempt to repair the device. It will affect your warranty. If the device is not operating properly, and is still under warranty, return it to the original place you buy. Pack it in a well-padded carton, and ship to the original place you buy.

If the alarm is no longer under warranty, have a licensed electrician replace it immediately with a comparable alarm.

Table 5.3 Trouble shooting guide:

Problem	Method of disposal
	1. The device is power off.
	2. The device is under "Smoke alarm silence" or "Low battery voltage warning silence" or "Fault warning" mode.
The device does not sound when press TEST/SILENCE button	Please ensure the device is under "Normal operation" mode then test the device.
	3. Clean the device. Please refer to the "6. General maintenance".
	4. If there are still failures during warranty, you can return it to your retailer.
	5. If the unit is out of warranty, please replace another new device.

The device chirps once with FAULT indicator (yellow) flashes once every 40 seconds	LOW BATTERY VOLTAGE SIGNAL. The battery is under low battery status, please replace the device.
The device chirps twice with FAULT indicator (yellow) flashes twice every 40 seconds	MALFUNCTION SIGNAL. Clean this device. Please refer to the "6. General maintenance". 1.If the device under warranty, please return it to your retailer for replacement. 2.If the device is out of warranty, please replace another new device.
The device sounds unwanted alarms when residents are cooking, taking showers, etc.	1.Press TEST/SILENCE button to pause alarm. 2.Clean the smoke around the device.

6. 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 enable the TEST/SILENCE button once a week.
2. Remove the unit from the ceiling and clean 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 dioxide, 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 battery.

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.

7. Carbon Monoxide (CO) Overview

Carbon monoxide (CO) is a highly poisonous gas that has no taste, colour or smell and therefore very difficult to detect with the human sense. CO kills hundreds of people each year and injures many more. It binds to the hemoglobin in the blood and reduces the amount of oxygen being circulated in the body. In high concentration, CO can kill in minutes. CO is produced from poorly burning appliances, such as:

- Wood-burning stoves
- Gas boilers and Gas heater
- Oil and coal burning appliances
- Blocked flues and chimneys
- Waste gas from car garages
- Barbecues

Symptoms Indicated by Carbon Monoxide Concentration Poisoning

CO Concentration	Rough inhalation time and symptoms developed
50ppm	Maximum concentration beeps in 8 hours for healthy adults
200ppm	Light headache, weak, dim eyesight and nausea after 2-3 hours
400ppm	Forehead pain in 1-2 hours, threaten life after 3 hours
800ppm	Dim eyesight, nausea and spasm in 45 minutes, lose consciousness in 2 hours, death in 2-3 hours
1600ppm	Headache, dim eyesight and nausea in 20 minutes, death in 1 hour
3200ppm	Headache, dim eyesight and nausea in 5-10 minutes, death in 25-30 minutes
6400ppm	Headache, dim eyesight and nausea in 1-2 minutes, death in 10-15 minutes
12800ppm	Death in 1-3 minutes

CAUTION! This alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm.

8. Battery Information

Power on/off switch.
Pull the switch to the ON position to turn on the device.
Pull the switch to the OFF position to turn off the device.

8.1 Battery type

This device is powered by 2pcs Exnnall built-in 3.0V CR123A lithium battery. Once activated, the battery will supply power to the alarm for 10 years under normal operation conditions.

NOTE: Battery activate is necessary for the life of the device.

NOTE: Constant exposure to high or low humidity may reduce battery life.

8.2 Battery deactivation

This device is equipped with low battery monitor circuit which will cause the alarm to produce chirps once and blink the FAULT indicator (yellow) every 40 seconds, you must to replace a new device asap after the first occurrence of the "Low battery warning" to provide continuous alarm protection.

This device is equipped with an active battery deactivation switch, pull the switch in the direction of the arrow to Deactivate the battery and the alarm.

WARNING! Deactivate the battery is permanent!

Once deactivated the battery, the alarm is incapable of being reactivated and must be replaced.

8.3 Battery disposal

WARNING!-Fire, explosion, and severe burn hazard. Do not recharge, crush, disassemble, heat above 100 °C, incinerate or expose contents to water.

1. Not to dispose of battery (or the device) as unsorted municipal waste, but collect it separately.
2. Dispose of in accordance with all applicable federal, state and local regulations.

9. Product Specifications

Model: JKD-515COM-R

Software version number: V1.2.5

Communication protocol: RF433MHz

Frequency : 433.92 MHz

Transmission Range: over 100m in open area

Product standards: UL 217 & UL 2034

Type of apparatus: type B - to provide a visual and audible alarm only

Power Supply: 2pcs 3.0V CR123A lithium battery

Sensor of Smoke: Photoelectric reflection