



SMOKE ALARMS

Data Sheet



R10RF

Smoke Alarm, Photoelectric, Wireless Interconnect, 3V Sealed Battery

Key Information

Product brand	Red Smoke Alarms
Product or component	Smoke Detector
Device application	Early detection of smouldering fires and open fires
Electronic sensor type	Photo-electric sensor
Colour	White
Quantity per set	Set of 1
Type of packing	Carton

Complementary

Supply	3V DC Sealed Battery
Battery Type	Lithium Battery
Battery Life	10 Year
Operating Current	< 100mA at 3V
Standby Power	< 0.04 mW
Detection Type	Smoke
Function Available	Hush Function Self-test of smoke detection Local alarm
Control Type	Button for test/ hush function
Transmission Frequency	433.92 MHz
Number of Devices	Up to 20 pieces
Operating Distance	30m indoor use line of sight 100m in free field
Pairing delay range	2 min maximum
Response time	Approx. 8s
Noise level	85 dB at 3m minimum
Time delay range	10 min for hush
Local Signal	Sound : Alarm Sound : Signal Visual : 1 LED (red for warning and low battery)
Type of Installation	Indoor
Device Mounting	Surface
Mounting Support	Wall-mount Ceiling
Fixing Mode	By screws
Diameter	140 mm
Height	39 mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.

Neither Red Smoke Alarms PTY. LTD nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Ambient Air Temperature for Operation	0...45°C
Relative Humidity	5...95%
Standards	AS 3786 : 2014 / amdt 2:2018



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SMOKE ALARM R10RF

Photoelectric Smoke Alarm with 10 Year Lithium Battery & Wireless Connection

INSTALLATION INSTRUCTIONS



SMOKE ALARMS

PLEASE NOTE: READ ALL INSTRUCTIONS BEFORE INSTALLATION. NO USER SERVICEABLE PARTS INSIDE THIS SMOKE ALARM.

Specifications:



Main Power Source	Lithium 10 Year 3V Sealed-Battery
Sensing Type	Type A Photoelectric smoke alarm - contains NO radioactive material
Sensitivity to smoke	0.08-0.2db/m
Operation Current	<20mA operation (In Alarm)
Temperature Range	0°C to 45°C
Humidity Range	0% to 95% RH
Interconnecting RF Range	40 alarms for wireless interconnection 100m free air 30m indoors (line of sight)
Pairing duration	2 min (recount after each success pairing)
Sound Level	85dB at three metres minimum
Alarm Condition	Audible signal pattern (ISO 8201)
Visual Indicators	Red LED for warning and low battery
Approval	AS 3786:2014, UL S36341

Features:

- DC operated photoelectric type smoke alarm
- Photoelectric sensor for slow smouldering fires
- Wireless Interconnection
- Insect proof
- Test & Hush button
- Environmentally friendly non-radioactive technology High and stable sensitivity
- Quick fix mounting bracket for easy installation
- Fitting and battery tamper-resist feature
- LED operation indicator
- Extra loud alarm sound over 85 dB
- Low-battery and battery missing warning indicators
- Auto reset when smoke clears

IMPORTANT: This manual contains important information about the installation and operation of your smoke alarm. Please read carefully before installation and keep for future reference. Please ensure that this leaflet remains in the household where the alarm is installed.

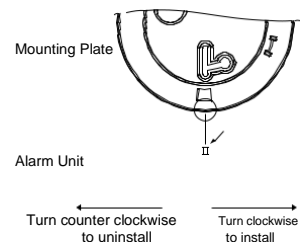
WARNING: This smoke alarm is designed to alert you to the presence of smoke, it cannot prevent a fire. There are hazards which smoke alarms may not be effective such as smoking in bed, explosions, etc. The ultimate responsibility for fire protection rests with you, this responsibility includes escape planning, safety checks and an effective warning system. In case of fire, a well-placed, properly looked after smoke alarm may provide a few seconds so that you can escape and call the fire brigade.

IMPORTANT SAFETY INFORMATION

1. The battery must be operational to operate the alarm correctly. To test the battery, press the test button on this smoke alarm.
2. The test button sufficiently tests all smoke alarm functions. DO NOT use any other test method.
3. DO NOT remove or disconnect alarm to silence unwanted sounding, this will remove your protection. Press the hush button or open windows to ventilate the smoke alarm to silence it.
4. This smoke alarm is designed to be used inside a single dwelling only. In buildings with several dwellings/units, each individual living unit should have their own smoke alarms. DO NOT install in non-residential buildings.
5. Install a smoke alarm on every level of the home.
6. Smoke alarms can only sound their alarms when they detect smoke or detect combustion particles in the air, they do not sense heat, flame, or gas. This smoke alarm is designed to give an audible warning of a developing fire, however, many fires are fast burning, explosive or intentional. Others are caused by carelessness or safety hazards. Smoke may not reach the smoke alarm quickly enough to ensure safe escape.
7. Smoke alarms have limitations. This smoke alarm is not foolproof and is not warranted to protect lives or property from fire. Smoke alarms are not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is possible for the smoke alarm to fail at any time. For this reason, you must test the smoke alarm weekly and replace every 10 years.

Installation of Smoke Alarms:

1. From back of the smoke alarm, remove the mounting plate by turning it counter clockwise.
2. Position smoke alarm mounting plate on wall or ceiling and screw into place.
3. Mount alarm head to base and turn clockwise to engage 'on' function. Push test button to test smoke alarm.



WARNING: Incorrect orientation will result in a decrease in operational effectiveness.

Wireless Connection Setup Guide:

1. Connect all alarm bases to alarms heads and turn clockwise to engage 'on' switch.
2. Select one of the alarms as the MASTER. Place the MASTER label on the exterior edge of the alarm so it can be identified in the future. Treat all other alarms as BRANCH units.
3. On the rear side of MASTER alarm head, press and hold the wireless pairing button for at least 5 seconds until led on front illuminates. The unit is now in self-learn pairing mode indicated by the LED on the front of alarm remaining on for a 30 second window.
NOTE: To exit self-learn pairing mode, press the wireless pairing button one time. The Red LED will turn off.
4. While the MASTER unit's LED is on, press the wireless pairing button 2 times quickly (within a second) on a BRANCH wireless alarm. The branch alarm LED will flash 5 times indicating successful interconnection.

NOTE: If the BRANCH units do not flash their LED 5 times, the wireless interconnection has failed, in this case, check that the alarm is in 'on' mode with the base properly engaged clockwise and that the master is still in self pairing mode. If needing to put the master back into self-pairing mode, you will only need to pair branch units that were not paired previously.

5. Repeat step 4 on all other BRANCH alarms within the 30 second window.
6. After pairing all unit, press and hold MASTER alarm's Test/Hush button to for up to 15 seconds to check that all interconnected units receive the RF signal and alarms sound.

Locating and Positioning of Smoke Alarms:

If your dwelling is on a single storey, for minimum protection you should fit an alarm in the hallway between the living areas (incl. Kitchens) and sleeping areas. Place it as near to the living areas as possible and ensure the alarm is audible when the bedrooms are occupied.

If your dwelling is multi-storey, for minimum protection one alarm should be fitted at the bottom of the staircase with further alarms fitted on each upstairs landing. This includes basements but excludes crawl spaces and unfinished attics.

NOTE: For maximum protection, an alarm should be fitted in every room (except kitchen, bathroom and garage). DO NOT FIT AN ALARM IN THE KITCHEN or BATHROOM, as cooking fumes or steam may trigger the alarm.

DO NOT FIT ALARM IN A GARAGE, as exhaust fumes are likely to set it off.

Ceiling Mounting

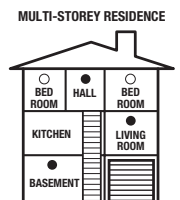
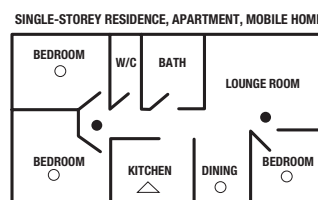
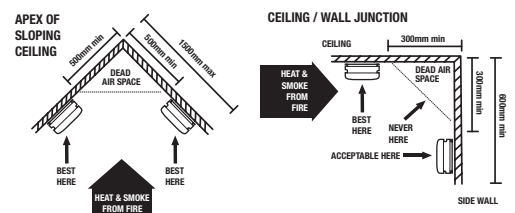
As hot smoke rises and spread out, it is advisable to mount on a ceiling in a central position. Avoid areas where there is no air circulation. E.g., Corners of rooms and keep away from items which may prevent the free flow of air. Place the unit at least 300mm from any light fitting or decorative object which might obstruct smoke / heat entering the alarm. Keep at least 300mm away from walls. See Figure 3i.

Wall Mounting

Do not mount tight into corners, place the top edge of your smoke alarm 500mm below the ceiling. Keep at least 300mm from room corners. See Figure 3i

On a Sloping Ceiling

In areas with sloping or peaked ceilings install your Smoke Alarm 900mm from the highest point measured horizontally because "dead air" at the apex may prevent smoke from reaching the unit. See Figure 3ii.



- Smoke alarms for minimum protection.
- Smoke alarms for additional protection.
- △ Smoke alarms with hush features recommended for additional protection

Areas to be avoided include the following:

- Situations where the temperature may fall below 0 °C or rise above 40 °C
- Humid areas such as bathrooms, kitchens, shower rooms where the relative humidity may exceed 90%.
- Near a decorative object, door, light fitting, window moulding etc., that may prevent smoke or heat from entering the alarm.
- Fume filled environments such as garages. Exhaust gases may cause false alarms.
- Adjacent to or directly above hot components such as radiators or wall vents that can affect the direction of air currents.
- In very dusty or dirty environments such as workshops.
- Locate unit at least 1.5m and route wiring at least 1m away for fluorescent light fittings as electrical "noise" and/or flickering may affect the unit. Do not wire into the same circuit as fluorescent lights or dimmers.
- Do not locate in insect infested areas. Insects and contamination on the Heat Alarm sensor can increase its response time.

Hush or Silence Feature

- This smoke alarm has a built-in Hush or Silence feature incorporated into the Test/Hush button.
- If cooking or other non-hazardous sources cause the alarm to sound, it can be temporarily silenced by pressing the Test/Hush button for 3 seconds.
- The alarm then enters a dormant period for 10 minutes. The red LED will flash every 10 seconds to indicate the sensitivity is reduced.
- After the 10-minute dormant period, the alarm will give two short beeps, and the alarm will resume normal operation.

NOTE: After the Test/Hush button has been pressed, wait 10 minutes before any additional testing is conducted to avoid any abnormal responses as the smoke alarm is not sensitive to smoke during this period.

NOTE: If a nuisance alarm occurs and if there is no sign of smoke, heat or noise to suggest a fire you should get your family to a safe place before investigating. Check the household carefully in case there is a small fire smouldering out of sight, or if there is another source of smoke or fumes such as cooking fumes being drawn past a smoke alarm by an extractor.

WARNING: If there are frequent nuisance alarms it may be necessary to re-locate the device away from the source of the fumes. If the alarm continues sounding nuisance alarms without smoke or heat being present; it may require some maintenance or cleaning.

THIS PRODUCT IS A SEALED UNIT AND CANNOT BE REPAIRED – IF THE UNIT IS TAMPERED WITH IT WILL INVALIDATE THE WARRANTY. IF THE UNIT IS FAULTY, PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

Warranty:

The smoke alarm is warranted to be free from defects in materials and workmanship for ten (10) years from the date of purchase and is not transferable under normal use. The warranty does not cover natural disasters such as fire, flood, hurricanes and tornados. Warranty is conditional on the smoke alarm being used in the normal way and not being modified or subject to attempted repairs or contamination. The warranty excludes incidental and consequential damages. Your statutory rights as a consumer are in no way compromised by this warranty. Red Smoke Alarms agrees to repair or replace, at its option, any defective smoke alarm provided it is returned personally or by prepaid delivery with a copy of proof of purchase. This warranty does not cover damages resulting from lack of reasonable care of the product. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Subject to those non-excluded rights and provisions and the above warranty, Red Smoke Alarms will not be liable for injury to persons, damage to property, or for any direct or indirect or consequential damage as a result of negligence or fault on the part of Red Smoke Alarms or its servants, agents, suppliers and contractors or otherwise arising out of or resulting from, whether directly or indirectly, the use, installation or maintenance of the smoke alarm and any warranties or representations are excluded unless given by Red Smoke Alarms in writing. Please leave this document, or a copy, for the end user.

OPERATION, TESTING AND MAINTENANCE

Operation

Under normal operation when no smoke is present, a red LED indicator will flash ONCE A MINUTE and is an indication that the unit is operating properly.

If alarm has been inadvertently triggered, the hush feature can mute the detector by holding down the test/hush button for a few seconds. The smoke alarm will be muted for 10 minutes and then reset into normal mode after this period.

NOTE: If the smoke density increases during the hush period the smoke alarm will be triggered into sounding again.

Alarm Condition

When the unit detects smoke, the red LED indicator will flash rapidly and alarm will sound loudly until the air is clear.

Testing the Smoke Alarm

Test the smoke alarm once a week. If the smoke alarm ever fails to test correctly, have it replaced immediately! If the smoke alarm is not working properly, it cannot alert you to a problem.

1. Test each smoke alarm to be sure it is installed correctly and operating properly.
2. Only use the 'test/hush button' as a function test. DO NOT use an open flame to test this smoke alarm, you may ignite and damage the smoke alarm or your home.
3. Stand at arm's length from the smoke alarm when testing.
4. To test the smoke alarm, firmly press the test button and the alarm will sound a loud beep. The alarm will stop sounding after releasing the test button. If the alarm does not sound, please re-test the alarm.

WARNING: If the alarm sounds and the smoke alarm is not being tested, the smoke alarm is sensing smoke. The sound of the alarm requires your immediate attention and action.

Battery:

Battery replacement is not required and the battery cannot be removed. Low Battery

If the smoke detector emits a short 'beep' once every 40 seconds the battery is at the end of its life and this detector should be replaced immediately. This low voltage warning will be given for at least 30 days.

If the red indicator light (LED) does not flash every 40 seconds, then replace the whole smoke alarm unit.

Maintenance:

The smoke alarm is virtually maintenance free. However, under dusty or greasy conditions, a vacuum cleaner may be used to clean the exterior of unit (including slots on cover). Normally, the alarm can be operated up to 10 years without replacement. See the replacing date on the bottom of the alarm unit.

DO NOT IMMERSE IN OR SPRAY WITH HOUSEHOLD CLEANERS.



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