

RF-SND



Wireless Sound Module (Direct Plug with battery back-up)

Thank you for purchasing a Kidde Wireless Interconnect Sound Module. It is an important part of your family's home safety plan. You can trust this product to provide the highest level of quality and performance. We know you expect nothing less when the lives of your family are at stake. This Sound Module, in combination with a Kidde Wireless smoke alarm, provides you additional means of notifying individuals of a smoke incident. In a fire seconds count. An interconnected alarm system gives you an increased level of safety by ensuring that all the alarms in your home activate when any one of the alarms detect a fire. Kidde estimates that the smoke alarms in 85 million homes in the US are not interconnected. This unit has several features that may provide an earlier warning of a hazardous condition. Some of the features that are included in this unit are:

- Loud verbal warning; a recent study has shown that voice messages can be up to 61% more effective in waking children.
- Low Frequency (1kHz) alarm signal; lower frequency signals may be more effective at alerting those with high frequency hearing loss.
- Remote Hush® temporarily desensitizes the initiating Kidde Wireless smoke alarm (see section 4).
- Remote Push To Test that causes each Wireless unit in your system to perform a self-diagnosis whenever the test button is pressed on any of the Kidde Wireless units (see section 4).
- Low Battery HUSH allows you to stop the Sound Module from producing a low battery warning for up to twelve hours to maintain your protection without having to replace the battery at inconvenient times such as the middle of the night.

WARNING! *This audible signaling device, model RF-SND, is NOT a smoke alarm and has no means of detecting a hazardous condition. This audible signaling device MUST be used in conjunction with one or more operating Kidde Wireless smoke alarms. The model RF-SND can only be used in conjunction with Kidde RF-SM-ACDC A.C. wire-in or RF-SM-DC battery operated smoke alarms. All Wireless units must be set to the same switch settings before they are powered up in order to work properly.*

WARNING! *DISCONNECTION OR LOSS OF AC POWER WILL LIMIT THE OPERATING TIME OF THIS UNIT.*

User's Guide

Wireless, Interconnected, A.C. Sound Module with 9-Volt Battery Back

This Sound Module is compatible with the following alarms and accessories:

• Smoke alarms: RF-SM-AC, and RF-SM-DC

See User's Guides for specific application information.

WARNING! *REMOVAL OF THE SOUND MODULE BATTERY AND DISCONNECTION OR LOSS OF A.C. POWER WILL RENDER THE SOUND MODULE INOPERATIVE.*

ELECTRICAL RATING: 120 VAC, 60HZ, 300mA maximum per Sound Module.

IMPORTANT! READ ALL INSTRUCTIONS BEFORE INSTALLATION AND KEEP THIS MANUAL NEAR THE SOUND MODULE FOR FUTURE REFERENCE.

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1. RECOMMENDED LOCATIONS FOR SOUND MODULES

Recommended Applications:

- Child's bedroom.
- Bedrooms of sound sleepers.
- An elderly person's bedroom.
- The bedroom of a person with high frequency hearing loss.
- In bedrooms without a smoke alarm and especially where someone sleeps with the door closed. The closed door may prevent the smoke alarm outside the room from waking the sleeper.

Recommended Locations:

- Remove the power plug and place on a nightstand or shelf near where the person sleeps.
- Plug directly into an outlet that is unobstructed by cloth or other sound dampening material near the head of bed.
- Mount on the wall near the sleeping individual.

2. LOCATIONS TO AVOID

- In an area that is obstructed by material or objects that may absorb sound and diminish the Sound Module's effectiveness, such as an outlet behind drapes or furniture.
- Into an outlet that is connected to a switch.
- In direct sunlight to prevent discoloration of the plastic.
- In an area where the temperature may fall below 32°F or rise above 100°F, such as garages and unfinished attics.
- In very humid areas.
- Near fluorescent lights, amateur radios, electrical equipment or other devices known to transmit in the RF band. Electronic "noise" may cause nuisance alarms.
- Near large metal surfaces and bundles of wire.

3. INSTALLATION INSTRUCTIONS

WIRELESS INTERCONNECT SETUP

1. Remove all your new Kidde Wireless Interconnect devices from their respective packages and place them in front of you.
DO NOT PLUG THEM IN OR INSTALL THE BATTERIES.
2. Find the 8-position dipswitch located on the back of each device. For this model the dipswitch is located under the back cover.
3. Select one of the units. You will define the ID of your system by positioning the switches of the dipswitch in a random pattern. The ID will need to be the same for each alarm or accessory. This ID will differentiate your alarm system from similar systems nearby. **DO NOT USE THE DEFAULT ID YOUR UNITS ARE SHIPPED WITH!**
4. Using a pen or pencil, change the switches in each of the Kidde Wireless devices to match the pattern you selected in step 3. Be careful to not get the sequence backwards.
5. Power each unit up after setting the ID by installing the batteries. The devices read the ID only read when they are first powered up. Any changes to the switches after the unit is powered will not be recognized and will require the units to be disconnected from power for a minimum of 30 seconds before powering the units up again.
6. Push and hold the test button on each unit for at least 5 seconds or until all the devices produce a smoke alarm signal. If all the units do not produce an alarm signal refer to the trouble-shooting section at the end of this manual.

CAUTION: Due to the loudness of the alarm, always stand an arms length away from the unit when testing.

7. Install the alarms in accordance with the owner's manual and **repeat step 6**. Since WIRELESS communication can be interrupted by a number of factors, you must test your alarms weekly to ensure proper communication between alarms.
8. Read the owner's manual and keep it in a safe place for future reference.



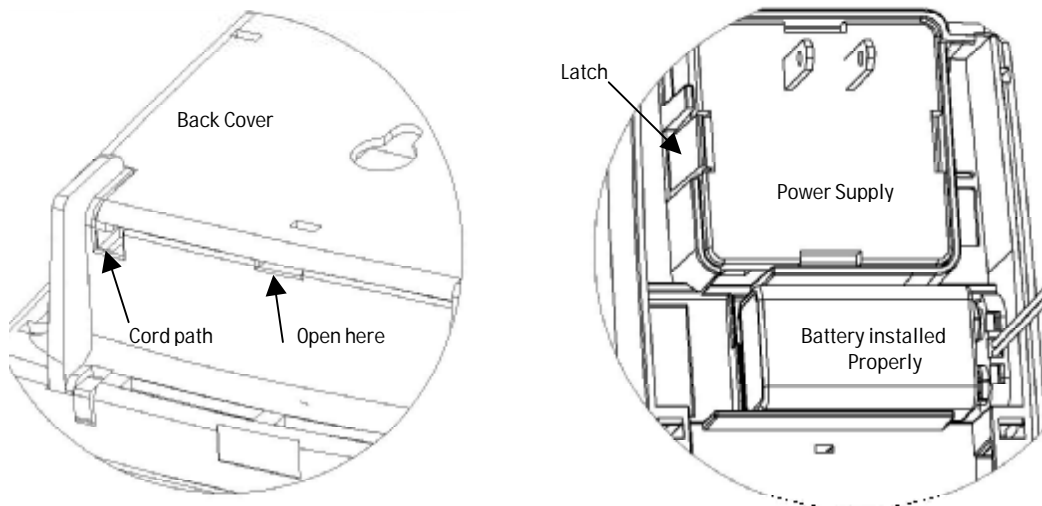
Figure 1

If your Wireless smoke alarms and accessories enter alarm mode, first check to see if there is a fire. If a fire does not exist, and the test buttons have not been activated on any of the units, it is likely that you are receiving interference from a similar system nearby. In this case, repeat the above steps and select a different dipswitch pattern, making sure to disconnect power and remove the batteries before changing the switch positions.

BATTERY INSTALLATION

CAUTION! THIS UNIT WILL NOT FUNCTION PROPERLY WITHOUT A FRESH BATTERY INSTALLED CORRECTLY. THIS DEVICE WILL QUICKLY DEplete BATTERIES WHILE ON BATTERY BACK-UP. CONNECT THE UNIT TO AC POWER IMMEDIATELY AFTER INSTALLING THE BATTERIES.

Remove the back cover from the unit by prying it up at the bottom in the center. If you are setting the unit up for the first time, set the Wireless ID as described previously before connecting the battery. Connect the battery to the terminals in the back of the unit and place it in the battery compartment. Replace the back cover of the unit and place the unit in its chosen location.



WIRING REQUIREMENTS

- The appropriate power source is 120 Volt A.C. Single Phase outlet supplied from a non-switchable circuit that is not protected by a ground fault interrupter.

WARNING: The Sound Module cannot be operated on power derived from a square wave or modified square 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 device.

MOUNTING INSTRUCTIONS

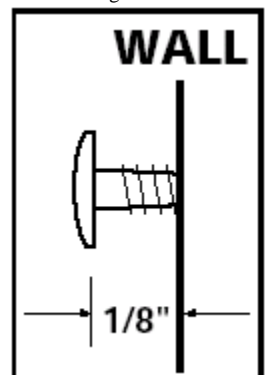
The Kidde Sound Module is equipped with a removable power-supply that allows for the unit to be wall mounted, plugged directly into an electrical outlet or placed on a table top.

- The Sound Module is shipped ready to use in most homes as a direct plug unit. Complete the setup and plug into an outlet using the recommend location section.
- For outlets that are installed horizontally (sideways), remove the back cover and pull the power-supply out while moving the latch to the side. Rotate the plug and insert it back into the unit. Replace the back cover and plug the unit into an outlet using the recommendations give in sections 1 and 2.
- The Sound Module can be mounted on the wall using the included screw and anchor kit. Remove the back cover and the power-supply. Unwind the cord and route it through the cord path near the bottom of the unit. Mount the back cover using the recommended locations in sections 1 and 2. To install on plaster board or dry wall, drill a 3/16" hole, insert the plastic anchor provided and install the screw so that the head is 1/8" from the wall. Hang the unit from the back cover and plug in the power-supply.
- To use the Sound Module on a tabletop or shelf, remove the back cover and the power-supply. Unwind the cord and route it through the cord path near the bottom of the unit. Replace the back cover and plug the power-supply in an outlet near one of the recommended locations.

CAUTION: THIS UNIT IS SEALED. THE COVER IS NOT REMOVABLE!

After installation TEST your Sound Module by following the test procedure outlined in section 4.

Kidde alarms and accessories CAN ONLY BE interconnected with other Kidde alarms and accessories as well as specified brands and models of interconnect compatible alarms. Connection of Kidde products to a non-specified manufacturer's interconnect system, or connection with non-specified equipment from another manufacturer into an existing Kidde system could result in nuisance alarming, failure to alarm, or damage to one or all of the devices in the interconnect system. Refer to User's Guide supplied with each Kidde product for lists of interconnect compatible models, brands, and devices



4. OPERATION AND TESTING

OPERATION

The Sound Module is operating once fresh batteries are installed, it is plugged into a non-switched AC outlet and testing is complete. When the Sound Module receives an alarm message from a Kidde Wireless smoke alarm, the horn will sound a loud (85db) temporal alarm for two cycles of three beeps followed by a verbal "Danger" message. This cycle repeats until the alarm message is no longer broadcasted from the smoke alarm.

Remote HUSH: Press the button on any wireless device to activate the Smart Hush® on a wireless smoke alarm that is initiating an alarm (see your wireless smoke alarm's user's guide for an explanation of Smart Hush®). This allows you to enable the Smart HUSH™ feature on a Kidde Wireless smoke alarm that may be installed in an area that is difficult to reach. This feature should only be used when a known alarm condition, such as smoke from cooking, activates the alarm.

CAUTION: BEFORE USING THE REMOTE HUSH® FEATURE, IDENTIFY THE SOURCE OF THE SMOKE AND BE CERTAIN A SAFE CONDITION EXISTS.

Low Battery Hush: When the battery needs replacement the unit will produce a low battery "chirp" once per minute and announces "low battery". The Low Battery HUSH allows you to press the button on the unit producing the warning and disable the "chirp" for a period of up to 12 hours. This gives you a chance to replace the battery at a more convenient time without sacrificing your safety by disconnecting the module from power. During this Low Battery HUSH period, your Sound Module is performing normally.

LED Indicator Operation

Red LED:

The red LED will flash in conjunction with the unit beep. Therefore, the red LED will flash during a smoke alarm, a low battery mode chirp and a unit error mode chirp.

Green LED:

The green LED will illuminate as described below under the following conditions:

STANDBY CONDITION (powered by AC and battery backup) - The LED will be constantly on.

STANDBY CONDITION (powered by only battery backup) - The LED will flash every 10 seconds.

TESTING

TEST THE ALARM WEEKLY TO ENSURE PROPER OPERATION.

When testing, ensure that all the units activate in response to a push to test from another unit. This will verify that changes in your environment (i.e. moved furniture, addition of electronic appliances) have not adversely affected the operation of your wireless system.

Remote Push To Test: Test your Kidde Wireless alarm system simply by activating the test button on any Kidde Wireless device within your system for a minimum of 5 seconds, or until all of the interconnected alarms sound. When the other alarms respond, this verifies that both the alarms and the interconnect system are functioning properly.

It may take up to 12 seconds for your Wireless interconnected devices to respond to a remote push to test.

Erratic or low sound coming from your Sound Module may indicate a depleted battery. If your unit fails to operate as described above, call the Consumer Hotline (see Section 9).

5. NUISANCE ALARMS

In rare occasions, interference from other electronic devices may cause nuisance alarms. If you do get nuisance alarms, please refer to the trouble-shooting guide at the end of this and each of your Kidde Wireless products' user's guides

6. MAINTENANCE

BATTERY INSTALLATION AND REMOVAL

Battery Replacement

If any form of battery failure is detected the red LED light will flash, the unit will "chirp" once every minute and produce verbal warning that will continue for at least seven days if the AC power is maintained. A missing or improperly installed battery will cause the Sound Module to "chirp". Replace the battery when this condition occurs.

To replace the battery, unplug the unit from the outlet and remove the back cover. Remove the battery and replace it with new battery from the list of replacement batteries specified below.

USE ONLY THE FOLLOWING 9 VOLT REPLACEMENT BATTERIES FOR YOUR SOUND MODULE.

Alkaline type

DURACELL MN1604 OR MX1604

ENERGIZER 522

GOLD PEAK 1604A

PANASONIC 6AM6, 6AM-6, 6AM-6PI, 6AM6X OR 6LR61(GA)

DO NOT USE CARBON-ZINC TYPE BATTERIES.

CONSTANT EXPOSURES TO HIGH OR LOW TEMPERATURES OR HIGH HUMIDITY MAY REDUCE BATTERY LIFE.

After installing or changing the battery, reconnect your Sound Module to AC power. Test your unit by using the test/reset button and check that the green LED is on. It may take up to one minute for the green LED to turn on continuously after the unit is plugged into AC.

WARNING! BE SURE TO USE ONLY THE BATTERIES SPECIFIED. USE OF DIFFERENT BATTERIES MAY HAVE A DETRIMENTAL EFFECT ON THE SOUND MODULE AND MAY CAUSE IT NOT TO FUNCTION AS INTENDED.

CLEANING YOUR SOUND MODULE.

YOUR SOUND MODULE SHOULD BE CLEANED AT LEAST ONCE A YEAR

To clean your Sound Module, disconnect it from the outlet and wipe the outside of the Sound Module with a damp cloth. After cleaning, reinstall your unit, verify the green LED is on and test your Sound Module by using the test button.

7. GOOD SAFETY HABITS

DEVELOP AND PRACTICE A PLAN OF ESCAPE

- Install and maintain Fire extinguishers on every level of the home and in the kitchen, basement and garage. Know how to use a fire extinguisher prior to an emergency.
- Make a floor plan indicating all doors and windows and at least two (2) escape routes from each room. Second story windows may need a rope or chain ladder.
- Have a family meeting and discuss your escape plan, showing everyone what to do in case of fire.
- Determine a place outside your home where you all can meet if a fire occurs.
- Familiarize everyone with the sound of the smoke alarm and train them to leave your home when they hear it.
- Practice a fire drill at least every six months, including fire drills at night. Ensure that small children hear the alarm and wake when it sounds. They must wake up in order to execute the escape plan. Practice allows all occupants to test your plan before an emergency. You may not be able to reach your children. It is important they know what to do.

WHAT TO DO WHEN THE ALARM SOUNDS

- Alert small children in the home.
- Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.
- In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
- Stay close to the floor if the air is smoky. Breathe shallowly through a cloth, wet if possible.
- Once outside, go to your selected meeting place and make sure everyone is there.
- Call the fire department from your neighbor's home - not from yours!
- Don't return to your home until the fire officials say that it is all right to do so.

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) smoking in bed
- b) leaving children home alone
- c) cleaning with flammable liquids, such as gasoline

8. TROUBLE SHOOTING GUIDE

Problem	Possible cause	Solution
Not all of the alarms/accessories produce an alarm signal when the Test button is pushed on a unit.	Devices may not all be on the same ID.	Locate the 8-position dipswitch on the back of each unit and ensure that all of the corresponding switches are set the same. If an ID needs to be changed: Remove power, change the ID and reapply power
	Devices may not have power.	Check to see if the Green LED is on continuously (this tells you the alarm is receiving AC power) or that it blinks every ten seconds (this tells you that it is receiving only battery power). If not make sure the batteries are installed correctly and the AC outlet has power. If the alarm is not receiving AC power but is receiving battery (DC) power the green LED will flash every 10 seconds. Contact a qualified electrician to check power to the wires.
	There may be too much interference between units	Move the other units to a new location and try again.. You should try to locate the WIRELESS units as closely to each other as possible.
Units signal an alarm when no fire is present and none of the test buttons have been pushed.	Unit is set to the same ID as a system nearby	Change the ID of your units by following the instructions in section 3. <i>INSTALLATION INSTRUCTIONS, Wireless Interconnect Setup</i> . Make sure to power all the units off before changing the switch positions
	Unit is located in area prone to cause false alarms.	Review section 2.LOCATIONS TO AVOID. Relocate the unit.
	Wireless Interference.	Move the other units to a new location.

9. SERVICE AND WARRANTY

If after reviewing this manual you feel that your Sound Module is defective in any way, do not tamper with the unit. Call the Consumer Hotline, 1-800-880-6788, to determine if you need to return it for servicing (See Warranty for in-warranty returns).

KIDDE

1394 South Third St.
Mebane, NC 27302

FCC COMPLIANCE STATEMENT

This device has been designed, constructed, and tested for compliance with FCC Rules that regulate intentional and unintentional radiators. The user is not permitted to make any modifications to this equipment or use it in any manner inconsistent with the methods described in this User Manual, without express approval from Kidde. Doing so will void the user's authority to operate this equipment.

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 received, including interference that may cause undesired operation.

The term "IC:" before the radio certification number only signifies that Industry of Canada technical specifications were met.

FIVE YEAR LIMITED WARRANTY

KIDDE warrants to the original purchaser that the enclosed sound module (but not the battery) will be free from defects in material and workmanship or design under normal use and service for a period of five years from the date of purchase. The obligation of KIDDE under this warranty is limited to repairing or replacing the sound module or any part which we find to be defective in material, workmanship or design, free of charge to the customer. Upon sending the sound module with proof of date of purchase, postage and return postage prepaid, to Warranty Service Department, KIDDE, 1394 South Third St., Mebane, NC 27302.

This warranty shall not apply to the sound module if it has been damaged, modified, abused or altered after the date of purchase or if it fails to operate due to improper maintenance or inadequate A.C. or D.C. electrical power.

THE LIABILITY OF KIDDE OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS ARISING FROM THE SALE OF THIS SOUND MODULE OR UNDER THE TERMS OF THIS LIMITED WARRANTY SHALL NOT IN ANY CASE EXCEED THE COST OF REPLACEMENT OF SOUND MODULE AND, IN NO CASE, SHALL KIDDE OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS BE LIABLE FOR CONSEQUENTIAL LOSS OR DAMAGES RESULTING FROM THE FAILURE OF THE SOUND MODULE OR FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE COMPANY'S NEGLIGENCE OR FAILURE.

Since some states do not allow limitations on the duration of an implied warranty or do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you. While this warranty gives you specific legal rights, you may also have other rights which vary from state to state.

Also, KIDDE makes no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose, with respect to the battery.

The above warranty may not be altered except in writing signed by both parties hereto.

QUESTIONS OR FOR MORE INFORMATION

Call our Consumer Hotline at
1-800-880-6788

or contact us at our website at
www.KIDDEUS.com



1394 South Third Street
Mebane, NC 27302