

ABOUT YOUR SMOKE ALARM

This smoke alarm is an effective product for detecting smoke and fire in your home.

Follow the instructions in this manual to ensure your smoke alarm protects you from smoke and fire.

Your new smoke alarm superior features:

- Advanced dual-ionization chamber responds to visible or invisible particles of combustion to sense fires in their early stages.
- Red operating light flashes every 45 seconds to confirm the unit is powered.
- Cover resists closing if battery is removed.
- Beeps every 45 seconds for up to 30 days when battery needs replacing.
- Has a Test button to allow testing at any time.
- Screws and anchors provided for easy installation.
- Has a three year warranty (excluding battery).

1. CAPABILITIES AND LIMITATIONS OF SMOKE ALARMS

First Response smoke alarms are designed to provide early warning of fire and smoke. Early warning can mean the difference between a safe escape and no escape at all. While smoke alarms can provide invaluable protection for you and your family, they do have limitations.

• Two types of smoke alarm technology:

Ionization smoke alarms respond earlier to fast flaming fires. A flaming fire devours combustibles extremely fast, spreads rapidly and generates heat with little smoke.

Photoelectric smoke alarms respond earlier to slow smouldering fires. A smouldering fire generates large amounts of thick, black smoke with little heat and may smoulder for hours before bursting into flames.

Install at least one ionization and one photoelectric smoke alarm on every level of the home.

- **Smoke alarms cannot work without power.** Battery operated alarms will not work without proper batteries, with dead batteries or if batteries are not properly installed. AC powered alarms will not work if their AC power supply is cut off by an electrical fire, an open fuse, a circuit breaker or any other reason.
- **Smoke alarms are incapable of sounding the alarm until smoke reaches the sensing chamber.** Anything preventing smoke from reaching the alarm may delay or prevent an alarm. A smoke alarm cannot detect fire in the walls, chimney or roof unless and until a significant amount of smoke reaches the alarm. A closed door may prevent smoke from reaching an alarm on the other side of the door. A smoke alarm may not sense a fire on another floor of a home. For example, a basement smoke alarm may not detect a fire which started on the first or second floor.
- **Smoke alarms may not be heard.** The loudness of the horn in your alarm meets current standards. However, the sound may be blocked by distance, closed doors, or ambient noise such as traffic or a stereo. Smoke alarms may not be heard by persons who are hard of hearing.
- **Smoke alarms are not fool-proof.** Smoke alarms may not always sense every kind of fire. They cannot be expected to sense fires caused by carelessness or by safety hazards. They may not give early warning of fast growing fires caused by smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, natural causes such as lightning, children playing with matches, or arson.
- **Smoke alarms are not substitutes for property, disability, life or other insurance of any kind.** Home owners and renters should continue to insure their lives and property. Consult your insurance agent.
- **Smoke alarms have limited lives.** Your smoke alarm should be replaced if it is ten years old. One or more of the many components could fail at any time. Therefore, test your smoke alarm weekly. Clean and take care of it as described in this manual. Repair or replace the smoke alarm when it fails to test properly. See the replacement year printed on the side of the alarm.

2. SAFETY TIPS

Properly installed and maintained smoke alarms are an essential part of a good home fire safety program. Your fire safety program should also include a review of fire hazards and the elimination of dangerous conditions whenever possible. Consider the following tips:

- Use smoking materials properly. Never smoke in bed.
- Keep matches and cigarette lighters away from children.
- Store flammable materials in proper containers. Never use them near an open flame or sparks.
- Keep electrical appliances in good condition. Do not overload electrical circuits.
- Keep stoves, fireplaces, chimneys, and barbecue grills grease free. Make sure they are properly installed and away from any combustible materials.
- Keep portable heaters and open flames such as candles away from combustible material.
- Do not allow rubbish to accumulate.
- Keep a supply of extra batteries on hand for your battery powered smoke alarms.
- Do not stand too close to the alarm when the unit is in alarm as the loud horn could damage your hearing.

WARNING Never disconnect the battery on any smoke alarm to silence a nuisance alarm. Clear the area of smoke by opening doors or windows or fanning the smoke away.

Most important, when fire strikes, a prepared and practiced escape plan can make the difference between life and death. Develop an escape plan and practice it with the entire family, including small children.

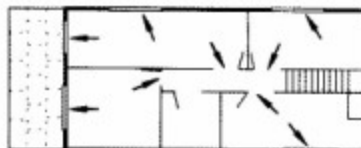
- Ensure all family members are familiarized with the alarm signal.
- Prepare an escape plan. Draw a Floor Plan of Your Home and determine two exits from each room. There should be a way to get out of each bedroom without opening the door.
- Have Fire Drills Often. Practice your Escape and BE PREPARED.
- Decide on a meeting place at a safe distance from your home.

IN CASE OF FIRE

- Don't waste time collecting possessions after a fire starts.
- Arouse all occupants and leave the building. Your most valuable possession

is your life.

- Doors can mean escape or death. Never open doors without first checking for heat. Test them with your hands, if they feel warm, fire may be walled up behind them - leave closed and find another escape route.



- Call the fire department from OUTSIDE the building.
- If trapped inside, stay close to the floor, cover mouth with cloth, conserve breath as you crawl to safety.
- Keep all doors and windows closed except for escape purposes.
- NEVER re-enter a burning building.
- Keep your family in a pre-arranged meeting place after your escape.

Your local fire department may be able to offer you additional ideas for safety and escape plans in the home.

3a. WHERE TO LOCATE SMOKE ALARMS

As a minimum, smoke alarms should be located between sleeping areas and potential sources of fire such as a kitchen, heated garage or basement. In single storey homes with one sleeping area, an alarm should be installed in the hallway outside the bedrooms (see Figure 1). In single storey homes with two separate sleeping areas, a minimum of two alarms are required, one outside each sleeping area (see Figure 2). In multi-level or split-level homes, as a minimum, an alarm should be installed outside each sleeping area, in the basement and at every level of the home (see Figure 3).

- In every room of your home (except the bathroom): Research indicates that substantial increases in warning time can be obtained with each properly installed, additional alarm.
- In bedrooms: In anticipation of fires originating within these rooms, caused by faulty wiring, lamps, appliances, smoking or other hazards.
- In hallways: At a distance no greater than 4 meters (13 feet) from the farthest wall and no greater than 8 meters (26 feet) from the next alarm.
- In the center of a room or hallway: As it is impossible to predict the source of a fire. If it is necessary to place the alarm on a wall, always locate the top of the smoke alarm 10-15 cm (4-6 inches) from the ceiling.
- As needed: To compensate for closed doors and other obstacles that may interfere with the path of smoke to an alarm. They may also prevent occupants on one side of a closed door from hearing an alarm on the other side of the door.

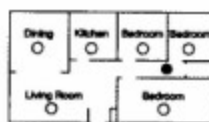


Figure 1

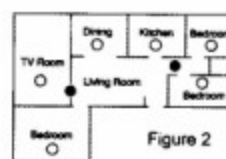


Figure 2

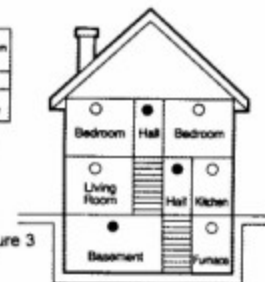


Figure 3

- Smoke alarms for limited protection
- Additional smoke alarms for better coverage

These diagrams show smoke alarm locations as recommended above.

READ "CAPABILITIES AND LIMITATIONS OF SMOKE ALARMS" in Section 1 of this manual.

Your local fire department or insurance company may be able to give you further advice on the best smoke alarm locations in your home. Call them and ask.

3b. WHERE TO LOCATE SMOKE ALARMS IN MOBILE HOMES

In mobile homes built after 1978, locate the smoke alarm as described above. Older mobile homes may have little or no insulation compared to the ones built post 1978. These uninsulated exteriors can disrupt airflow around the smoke alarm in hotter or colder weather. Locate the alarm only on interior walls 10 to 15 cm (4" to 6") from ceiling 1. if you own an older mobile home or 2. if you notice the exterior walls and/or ceiling are noticeably cold or warm or 3. if you are uncertain about the quality of insulation.

Regardless of the age of the mobile home, locate alarms throughout to ensure maximum protection. Follow the location instructions in this manual.

NFPA RECOMMENDATIONS

For your information, the National Fire Protection Association's Standard 72 reads as follows:

2-2.1.1.1 Smoke alarms shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional storey of the family living unit, including basements and excluding crawl spaces and unfinished attics. In new construction a smoke alarm also shall be installed in each sleeping room.

A-2.5.2.1 Smoke Detection - Are More Smoke Alarms Desirable? The required number of smoke alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke alarms. For this reason, it is recommended that the householder consider the use of additional smoke alarms for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke alarms. The installation of smoke alarms in kitchens, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

4. LOCATIONS TO AVOID

Avoid locations where smoke may not reach the alarm in time to provide early warning, or where the alarm may not be effective.

DO NOT PLACE SMOKE ALARMS:

- In turbulent air from fans, doors, windows, etc. The rapid air movement may prevent combustion particles from entering the alarm.

- In dead air spaces such as at the peak of an "A" frame ceiling. "Dead air" at the top may prevent smoke from reaching the alarm in time to provide early warning. In rooms with simple sloped, peaked or gabled ceilings, install smoke alarms on the ceiling 90 cm (3 feet) from the highest point of the ceiling.
Note: For complex ceiling structures, consult a safety expert for the number of alarms required and the best locations.
- In very hot or cold areas where the temperature exceeds 38°C (100°F) or falls below 5°C (40°F).
- Less than 15 cm (6 inches) from the wall when mounted on the ceiling.

Nuisance alarms could result when smoke alarms are located where interference may occur with the sensing chamber. To avoid nuisance alarms, DO NOT place smoke alarms:

- In high humidity areas such as bathrooms and attics. Place smoke alarms at least 3 meters (10 feet) away from bathrooms.
- In insect-infested areas.
- In poorly ventilated kitchens or garages.
- In very dusty and dirty areas.
- Near fluorescent lights. Place smoke alarms at least 1.5 meters (5 feet) from fluorescent lights.

WARNING

Do not connect this smoke alarm to any other alarm or auxiliary device. Connecting the alarm to any other device may be detrimental to its proper operation.

5. INSTALLATION AND TESTING

A. Testing Before Installation

- Connect battery. Storage in low humidity, and certain transportation conditions, may cause electrostatic charges to build-up in the alarm system housing. Although harmless, these charges may increase the length of time during which the horn sounds upon battery insertion or test button operation. The condition may be cleared by gently wiping the outside of the plastic cover with a clean, damp cloth.
- Check the operating light. It should flash approximately every 45 seconds.
- Press and hold the test button until alarm sounds. Note: It may be necessary to press the cover for up to 20 seconds for alarm to sound. An alarm is indicated by a loud continuous pattern sound. Alarm may continue to sound for up to 10 seconds after cover is released.

IF THERE IS ANY QUESTION AS TO THE CAUSE OF AN ALARM, ALWAYS ASSUME THAT IT IS DUE TO AN ACTUAL FIRE AND FOLLOW YOUR FIRE EMERGENCY PLANS. Do not assume it is a nuisance or false alarm. Valuable time for escape could be lost.

Installation

- Obtain a screwdriver and a drill with 3/16" (5 mm) bit.
- Find the arrow along the side of the cover. Located under it are 2 clips. To open the smoke alarm, press down on the base of clips while lifting the cover at the same time. Handle the unit with care to avoid damage.
- IF MOUNTING SMOKE ALARM ON WALL – Place alarm on wall so that the hinge for the cover faces the floor, and the arrow indicating where to open, faces the ceiling. This mounting position ensures that the cover hangs open as a visual reminder that the battery is missing. This position also provides good visibility of screw holes for easy installation.
- Mark holes through the alarm base, then remove the alarm. Drill two 3/16" (5 mm) holes to line up with mounting holes in the alarm base. Keep smoke alarm out of reach from plaster dust while drilling.
- Insert the plastic anchors. Screw alarm base onto ceiling support.
- Properly install batteries.
- Close cover and test as recommended in this section.

Note: For a more complete discussion of installation and location requirements refer also to: CAN/ULC-S553-02 "Standard for the Installation of Smoke Alarms" (available from Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario M1R 3A9).

The Eveready 216, 522, 1222, Duracell MN1604, MX1604 and Gold Peak1604P/S/A are the only acceptable batteries for use in this smoke alarm. The battery will power the smoke alarm for at least one year under normal use. When the battery reaches the end of its normal life, a low battery warning (intermittent beeping) will indicate the need for battery replacement for up to 30 days.

WARNING

Use of non-recommended batteries may be detrimental to the proper functioning of the alarm.

REPLACEMENT OF SMOKE ALARMS AFTER 10 YEARS OF SERVICE

Smoke alarms contain electronic parts that may fail and components that can deteriorate over time. Therefore, smoke alarms have a limited service life. See the replacement date printed on the side of the alarm.

6. MAINTENANCE & TROUBLESHOOTING

VACUUM EVERY SIX MONTHS

Your Smoke Alarm should be cleaned every six months to help keep it working efficiently. Open cover and gently vacuum interior of alarm. Keep vacuum nozzle from touching unit.

Do not paint the unit.

TEST WEEKLY BY PRESSING TEST BUTTON

PROBLEMS MAY BE INDICATED BY THE FOLLOWING:

- The alarm does not sound upon pressing the test button.
- The operating light remains steadily on or off (i.e. does not flash once every 45 seconds, when the unit is not in alarm).

TRY THE FOLLOWING:

- Inspect for obvious damage.
- Gently vacuum as recommended above.

- Check that unit contains recommended battery type.
- Check that battery is properly connected.
- Replace battery.

If these procedures do not correct the problem, do NOT attempt repairs. If the smoke alarm is within warranty period and terms, indicate the nature of the problem and return the unit with proof of purchase to the point of purchase, distributor or manufacturer. See below for instructions. Units beyond warranty cannot be economically repaired.

FALSE ALARMS:

Abnormal air conditions may cause the highly sensitive smoke alarm to give a "false" alarm. If no fire is apparent, ventilate the room and/or blow fresh air into the unit until the alarm stops. Once cleared, the smoke alarm will automatically reset.

DO NOT DISCONNECT THE BATTERY.

Dust can lead to excess sensitivity. Vacuum as recommended above.

Smoke alarms contain electronic parts that may fail and components that can deteriorate over time. Therefore, smoke alarms have a limited service life. In order to prolong the service life and to provide optimal performance, smoke alarms should be tested and cleaned periodically. **It is strongly recommended that smoke alarms be replaced within 10 years of original installation.**

7. LIMITED WARRANTY

Your SF100/SF200 Smoke Alarm, excluding the battery is warranted for three years from date of purchase against defects in material and workmanship. Units returned to Dicon Global Inc. with proof of purchase date during this period as a result of such defects will be repaired, or replaced at Dicon Global Inc.'s option. This warranty only covers defects in material or workmanship in normal residential use and does not cover the battery, nor does this warranty cover damage resulting from negligent handling, misuse, or lack of reasonable care. This warranty is in lieu of any other warranty either expressed or implied.

DICON GLOBAL INC. SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE, OR ANY SPECIAL INCIDENTAL, CONTINGENT OR CONSEQUENTIAL DAMAGE OF ANY KIND RESULTING FROM A FIRE. THE EXCLUSIVE REMEDY FOR BREACH OF THE LIMITED WARRANTY CONTAINED HEREIN IS THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT AT DICON GLOBAL INC.'S OPTION. IN NO CASE SHALL DICON GLOBAL INC.'S LIABILITY UNDER ANY OTHER REMEDY PRESCRIBED BY LAW EXCEED THE PURCHASE PRICE. YOUR SMOKE ALARM IS NOT A SUBSTITUTE FOR PROPERTY, DISABILITY, LIFE OR OTHER INSURANCE OF ANY KIND. APPROPRIATE COVERAGE IS YOUR RESPONSIBILITY. CONSULT YOUR INSURANCE AGENT.

This warranty gives you specific legal rights and you may also have other rights which may vary from province to province.

Return to point of purchase for servicing. Or, for repair or replacement within the warranty period, return this product (or send it postage prepaid) along with proof of purchase date and return postage to Dicon Global Inc. Please enclose a note stating the nature of the difficulty. Prior to sending, you must call 800-387-4219 to establish a Returned Goods Authorization ("RGA") number and the latest instructions to serve you promptly. Please mark this number on the exterior of your package. Note: Date code located on back of unit.

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SMOKE ALARM

Owner's Manual

READ CAREFULLY AND SAVE.
This manual contains important information.
A copy of this manual must be left with the end user.

LISEZ ATTENTIVEMENT ET GARDEZ PRÉCIEUSEMENT.
Le présent manuel contient des renseignements importants.
Un exemplaire doit être remis à l'utilisateur final.

(French on reverse side / Français au verso.)