



## SMOKE ALARM MANUAL Ionization Type with Built-in Relay

Model ASD100 - 12/24 Volt A/C/DC Hardwire Smoke Alarm

This model is interconnectable with up to 11 other units.

### Important information about your smoke alarm

Install alarms outside of every bedroom area and on every floor of your home. Please refer to Section 3 - Where to Locate Smoke Alarms for details.

Test the alarm weekly by pressing and holding the test button for up to 20 seconds until the alarm sounds.

The model described in this manual is designed for single family residences, including homes and apartments rather than commercial or industrial use.

### Smoke Alarm Safety Features

Dual-Ionization Chambers - A advanced design responds to visible or invisible particles of combustion (smoke) to sense fires in the early stages. Compensates for changes in humidity and temperature to virtually eliminate nuisance alarms caused by normal atmospheric changes in the home.

Operating Light (LED) - A continuous red light located behind the slotted case indicates the smoke alarm is receiving A/C/DC power.

Interconnection - Interconnection facilities for up to 11 other units, using only three wires, including A/C/DC power. When one alarm sounds, all properly interconnected smoke alarms follow. NOTE: Interconnect only with the models specified in Section 6.

Alarm Sound Indicator - The red operating light in the unit originating the alarm will flash rapidly in the event of an alarm. This feature allows for an easy check to determine the originator.

Sensitivity Test Button - Test sensitivity, as well as circuitry and horn. With interconnected units, activating test button on one unit will cause all properly interconnected units to sound. An important and convenient check of system integrity.

Detachable Mounting Plate - For easily securing the alarm to the junction box.

MAXIMUM POWER REQUIREMENT		
OPERATING VOLTAGE 12/24 Volts AC or DC		
from a UL Listed Power Supply or a Residential Fire or Fire/Burglary Alarm Control Unit.		
Supply	Standby (mA)	Alarm (mA)
DC	50	65
AC	50	145

Relay Connection- Provides one Form C, normally open/normally closed contact which is activated on alarm.

### CONTENTS OF THIS MANUAL

- CAPABILITIES AND LIMITATIONS OF SMOKE ALARMS
- SAFETY TIPS
- WHERE TO LOCATE SMOKE ALARMS
- NFPA RECOMMENDATIONS
- LOCATIONS TO AVOID
- INSTALLATION AND TESTING
- MAINTENANCE AND TROUBLESHOOTING
- LIMITED WARRANTY

### 1. CAPABILITIES AND LIMITATIONS OF SMOKE ALARMS

American Sensors Inc. smoke alarms are designed to provide early warning of fire and smoke at reasonable cost. 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.

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. A/C/DC powered alarms will not work if their A/C/DC power supply is cut off by an electrical fire, an open fuse, a circuit breaker or any other reason.

If you are concerned about the reliability of either battery or your A/C/DC power supply for any of the above reasons, you should install in your home both A/C and battery powered smoke alarms for added security.

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.

For these reasons, a smoke alarm should be installed in every room or at least on every level of your home. A American Sensors Inc. recommends that hardwire A/C/DC Powered smoke alarms be interconnected, so that one alarm will trigger all other alarms to sound.

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 careless smoking, 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. 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. Your smoke alarm should be replaced if it is ten years old.



There are two different types of smoke alarm technology currently in general use: Ionization and photoelectronic. While both types of technology are suitable for general residential use, an ionization alarm will normally respond faster to fast flaming fires, while a photoelectronic alarm may be more sensitive to detecting slow smouldering fires. Because home fires develop in different ways and are often unpredictable in their growth, it is impossible to predict which type of alarm will provide the earliest warning. For best home protection install at least one photoelectronic and one ionization smoke alarm on each level of your home. Model ASD100 is an ionization type smoke alarm.

A photoelectronic smoke alarm senses smoke using an electronic photo receptor to sense the scattering of light by smoke particles.

### 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.

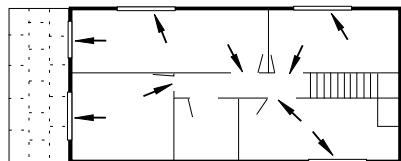
**WARNING** Never disconnect the battery or the A/C/DC power on any type of smoke alarm to silence a nuisance alarm. Clear the area of smoke by opening doors and windows or fanning the smoke away.

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.

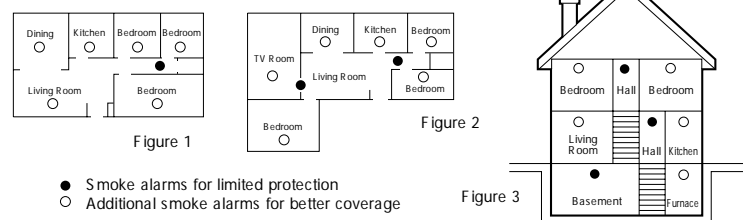
In bedrooms: In anticipation of fires originating within these rooms, caused by faulty wiring, lamps, appliances, smoking or other hazards.

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.

Model ASD100 - Hardwire model can be located in any area of the home, except the bathroom. 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.



These diagrams show smoke alarm locations as recommended above in 3a.

### 3b. WHERE TO LOCATE SMOKE ALARMS IN MOBILE HOMES.

NOTE: Power supply must be 12/24 Volts A/C/DC for model ASD100.

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 (4Z to 6Z) 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.

### 4. 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.

### 5. 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-Z 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

This smoke alarm is suitable for residential use. It is not to be connected to a commercial or industrial fire alarm panel.

### 6. INSTALLATION AND TESTING

#### A. Installation

Mount to any standard octagon or rectangular junction box with a minimum depth of 2.5 cm (1 inch). 12-24 Volt A/C/DC, 145mA AC or 65mA DC operation

WARNING: Wiring should only be installed by a licensed electrician in accordance with the Canadian Electrical Code and local codes.

WARNING: The circuit used to power the smoke alarm must be a 24 hour voltage circuit that cannot be turned off by a switch or a ground fault interrupter. It is highly recommended that smoke alarms be wired on a separate circuit (one with no other lights or appliances) to ensure maximum reliability of AC power supply. For installation of smoke alarms in Dwelling Units, it is important to follow the Canadian Electrical Code and local codes.

1. Electricity must be turned off at service entrance before beginning installation to prevent electrical shock or equipment damage.

2. Location must comply with applicable building codes.

3. Install a junction box where you plan to install the alarm. Use standard 14 gauge wire.

4. Loosen or remove screws from junction box.

5. Pull the connection wires from the junction box through the gasket and the mounting plate. Using the junction box screws secure the gasket and the flat side of mounting plate to the junction box and ceiling or wall (ensure that the gasket is positioned between the mounting plate and the junction box). The gasket will prevent downward air currents from entering the smoke alarm through holes in the back of the alarm. Unless blocked off, downward air currents could prevent smoke from entering the alarm.

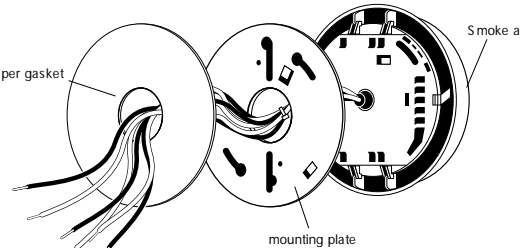
WARNING: IT IS IMPERATIVE THAT YOU INSERT THE GASKET WHEN INSTALLING YOUR SMOKE ALARM.

6. Connect black and white wires colour to colour from the unit to AC power leads.

7. For multiple station application use the brown wire to interconnect. If unit is not to be interconnected, cap unused wire. NOTE: The ASD100 is interconnectable with up to 11 other units.

8. Align the arrow on mounting plate with the arrow on the side of smoke alarm cover. Clips on the mounting plate should fit into the recesses of smoke alarm base. Twist the smoke alarm clockwise to lock into position.

9. Test alarm operation after installation in accordance with Operation: How to Test instructions.



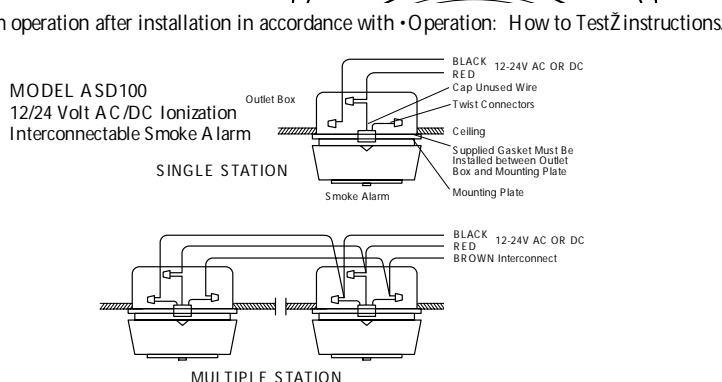
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9. Test alarm operation after installation in accordance with Operation: How to Test instructions.



Model ASD100 provides one form C (NO/NC) contact which activates on alarm. Contact rating (resistive): 1 A at 30V DC/125 VAC.

Relay wires (yellow/white/blue) 14 gauge stranded copper.

Install in accordance with Canadian Electrical code and local building codes.

Note: Maximum interconnect wiring length is 50 meters (150 feet).

IMPORTANT: The ASD100 is not interconnectable with any other model produced by another manufacturer.

The ASD100 may be interconnected only with the following smoke alarm models in existing installations:

Dicon Safety Products	330SR
ASI Systems Devices	ASD200
Dicon Safety Products	440SRIM

To Interconnect with ASD200 or 440SRIM, connect Brown Interconnect wire to negative (-) interconnect terminal block. Terminal blocks accept wire between 16-19 AWG (0.4mm<sup>2</sup> and 1.5mm<sup>2</sup>).

Read ASD200 owner's manual. For a more complete discussion of installation and location requirements refer also to: CAN/ULC-S553-M86 - Standard for the Installation of Smoke Alarms (available from Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario M1R 3A9).

B. Operation: Testing After Installation

1. Smoke Test - Hold a piece of cotton string with pliers. Leave about 5 cm (2 inches) of string dangling from the pliers. Burn the tip of the string with a safety match, extinguish flame and hold smoking string 15 cm (6 inches) below and to one side of the smoke alarm. Blow smoke towards the smoke alarm until the horn sounds. The horn will sound until the sensing chamber is clear of smoke. Repeat this monthly.

2. Check to see that the RED POWER ONZ light is on. The POWER ONZ light is visible behind the slotted case and confirms that the smoke alarm is receiving A/C/DC power.

3. Press and hold the test button until the alarm sounds. NOTE: It may be necessary to press the test button for up to 20 seconds for alarm to sound. An alarm is indicated by a loud pulsating sound. Alarm may continue to sound for up to 10 seconds after button is released. (NOTE: Pressing the test button activates the relay).

4. At least once a week, press the test button and hold until the alarm sounds, then release.

NOTE: Multiple Station Only:

- Test each alarm separately in the system.
- Determine that the initiating alarm triggers other alarms in the system.

NOTE: Pressing the test button activates the relay.

### 7. MAINTENANCE & TROUBLESHOOTING

TEST THE ALARM WEEKLY. VACUUM EVERY SIX MONTHS. Your smoke alarm should be cleaned every six months to help keep the unit working efficiently.

REMOVE POWER TO ALARM. Gently vacuum through the vents of the alarm with a soft brush attachment. Keep vacuum nozzle from touching the unit.

RE-ESTABLISH POWER TO ALARM.

Problems may be indicated by the following:

- The alarm does not sound upon pressing the test button.
- The alarm does not sound with the smoke test.
- The RED operating light does not remain steadily on when unit is powered.

### TRY THE FOLLOWING:

- Ensure power supply is within the specified parameters and all fuses/circuit breakers are intact.
- Gently vacuum as recommended above.
- Call an electrician to inspect house wiring and connection to alarms.

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 A/C/DC POWER SUPPLY. Dust can lead to excess sensitivity. Vacuum as recommended above.

DO NOT PAINT THE UNIT.

### 8. LIMITED WARRANTY

Your American Sensors Inc. smoke alarm is warranted for ten years from the date of purchase against defect 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, without charge. This warranty only covers defects in material or workmanship in normal residential use. This warranty does not 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 have other rights which may vary from Province to Province.

Units may be returned to point of purchase according to retailers exchange / return policy. Or call 1-800-387-4219, for shipping instructions and a returned goods authorization number "RGA" number, to return to Dicon Global Inc. Returned goods must be shipped prepaid. A cheque for \$5.00 is also required for return postage. Please mark the RGA Z number on the exterior of your package. Date code located on back of smoke alarm.

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**Dicon Global Inc.**  
20 Steelcase Rd., Unit 3  
Markham, Ontario,  
Canada L3R 1B2



## 12-24V AC/ DC Ionization Smoke Alarm with Built-In Relay

AVERTISSEUR DE FUMÉE  
À IONISATION avec Relais  
ca/ cc 12-24 V

MODEL/MODÈLE  
**ASD100**

Owner's Manual  
Manuel de l'utilisateur

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

LIRE ATTENTIVEMENT ET CONSERVER CE MANUEL. Le présent manuel renferme des renseignements importants. Un exemplaire de ce manuel doit être remis à l'utilisateur final.

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