



User manual

HXS-5 smoke alarm



2531

2531-CPR-CSPxxxxx

DoP n° xxxxx

EN 14604:2005/AC:2008



	CE	EN 14604: 2005/AC:2008	Declaration of Performance	Interconnection
HXS-5	2531-CPR- CSPxxxxx	Smoke alarm	xxxxx	No

Cautions



ELECTRICAL HAZARD: Disconnect power from equipment prior to making any internal adjustments. Service should only be performed by qualified personnel.



PRODUCT LIMITATIONS: This smoke alarm does not detect gas, heat or flame, and should not be covered with a guard or similar obstructing item.

This smoke alarm may not alert people who are hearing impaired. It is strongly recommended that the special-purpose smoke alarms using visual or vibrating alerting devices, should be installed for these occupants.

This smoke alarm may not be effective in fires where smoke is prevented from reaching the device (eg where intermediate doors are closed), where the fire grows so rapidly that the egress path is blocked (even when correctly located), and where the fire is intimate to a person (eg where a victim's clothes catch fire).



SLEEPING OCCUPANTS: Studies have shown that smoke alarms may not awaken all sleeping occupants, and 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.



INSTALLATION LIMITATIONS: This product is designed for use in a single residential unit, such as a family home or apartment. It should only be used in lobbies, hallways, basements etc if interconnected with other compatible smoke or heat alarms. Smoke alarms, located outside the dwelling may not provide early warning to occupants.

This product is not designed for use in non-residential buildings. Non-residential buildings require special fire detection and alarm systems. This product alone is not a suitable substitute for a fire detection system installed in places of work or where people sleep on a temporary basis, such as hotels or motels, dormitories, hospitals, nursing homes or group homes of any kind, even if they were once dwellings. Please refer to local regulations for fire detection and alarm system requirements.

Features

HXS-5 smoke alarms provide battery powered smoke detection and alarm functions within a single unit.

HXS-5 smoke alarms provide a big test/silence button for easy operation.

HXS-5 smoke alarms provide home-owners and installers with an easy-to-install, economical solution for life safety and property protection applications.

Audible and Visual Alarm Indicators

When operating normally, a red LED adjacent to the Test button will flash every 48 s. When smoke is detected, an internal sounder will activate to alert occupants, and the LED will flash rapidly. The sounder is a loud, pulsating alarm.

Test/Hush Button

Test

When in the Normal condition, pressing and holding the Test/Hush button for 5 s will activate the smoke alarm to check its operation. The alarm will sound and the red LED will flash rapidly. Releasing the Test/Hush button will cancel the alarm sound and the smoke alarm will return to normal mode.

Hush

When in the Alarm condition, pressing the Test/Hush button will silence smoke alarm for about 10 min. The hush feature should only be used after the cause of the alarm is known (such as normal cooking fumes). During the hush time, the red LED will flash every 8 s.

After the hush time has expired, the smoke alarm will automatically return to normal sensitivity. If smoke is still present in the unit, the alarm will re-activate. The hush feature can be used repeatedly.

Alarm Memory

Alarm Memory feature allows easy identification of any unit that has previously been in the Alarm condition. If a unit enters the Alarm condition and subsequently returns to the Normal condition, the Alarm Memory is set.

The user will be able to identify a unit with an active Alarm Memory by pressing the Test/Hush button. When this button is pressed, the sounder will chirp 3 times every 1 s.

If the Alarm Memory is active, pressing and releasing the Test/Hush button resets the Alarm Memory.

The Alarm memory will be reset automatically after 24 hours.

Smoke Chamber Fault

If the smoke sensitivity falls below the minimum alarm response threshold level (for example, due to excessive contamination inside the smoke chamber), the smoke alarm will chirp 3 times every 48 s.

Low Battery

When the battery is depleted, the smoke alarm will emit a short audible signal every 48 s for at least 30 days. When the Low Battery signal is given, change the smoke alarm battery without delay.

Specifications

Power source	2 AAA Alkaline batteries
Operating voltage	2.4V~3.5VDC
Operating temperature	(-10 ~ +45) °C
Operating humidity	(10 ~ 90) % RH, non-condensing
Alarm sounder output	≥ 85 dB @ 3 m
Dimensions	Φ 116 mm × H24 mm
Weight	135g
Mounting	Ceiling

Installation Preparation

Equipment

Before commencing installation, ensure all equipment and tools to mount and test the device are available, such as drills, mounting screws (supplied), cables and ladders.

Location Selection in Homes and Apartments



WARNING: Location and number of smoke alarms may be specified in relevant regulations. Where these do not exist, the requirements of NFPA 72 can be used. For your information, the National Fire Alarm Code, NFPA, reads as follows.

11.5.1 *Required Detection.

*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 6.4 m (21 ft) 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 crawl 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

For complete coverage, smoke alarms should be installed in all rooms, halls, storage areas, basements, and attics in the dwelling. The minimum coverage is one smoke alarm on each floor and one outside each sleeping area. Please use the following location guide.

Single Storey Dwellings

Install a smoke alarm in the hallway outside every separate bedroom area, as shown in Fig. 1 a). Two smoke alarms are should be installed in dwellings with two bedroom areas, as shown in Fig. 1 b).

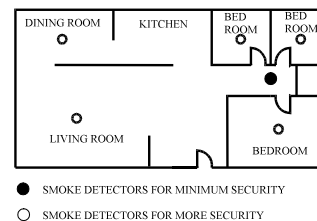


Fig. 1 a) – Single bedroom area

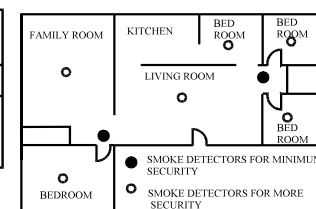


Fig. 1 b) – Multiple bedroom areas

Multi-Storey Dwellings

Install a smoke alarm on every floor of a multi-floor dwelling, as shown in Fig. 2.

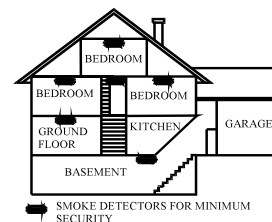


Fig. 2 – Multi-storey dwelling

Enhanced Safety

To improve early detection performance and safe evacuation, consider installing additional smoke alarms as follows.

- At least of two smoke alarms.
- Inside every bedroom.
- At both ends of a bedroom hallway if the hallway is more than 12 m.
- Inside every room where one sleeps with the door partly or completely closed, since smoke could be blocked by the closed door, and a hallway alarm may not wake up the sleeper if the door is closed.
- At the bottom of the basement stairwell.
- Second-floor smoke alarms at the top of the first-to-second floor stairwell.
- In your living room, dining room, family room, attic, utility and storage rooms.

Be sure no door or other obstruction blocks the smoke path to the smoke alarm.

Installation Location

Install smoke alarms as close to the centre of the ceiling as possible, away from light fittings and air-conditioning ducts. If this is not practical, put the alarm on the ceiling, no closer than 50 cm from any wall or corner as shown in Fig. 3.

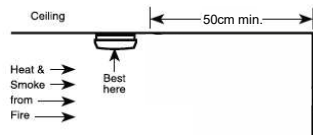


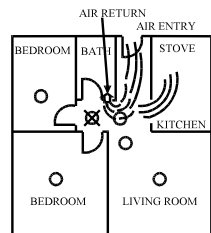
Fig. 3 – Smoke alarm location from walls

If some of your rooms have sloped, peaked, or gabled ceilings, try to mount alarms 0.9 m measured horizontally from the highest point of the ceiling.

Where Not to Install Your Smoke Alarm

Nuisance alarms occur when smoke alarms are installed where they will not work properly. To avoid nuisance alarms, do not install smoke alarms in the following situations.

- In or near areas where combustion particles are present, such as kitchens with few windows or poor ventilation, garages where there may be vehicle exhaust, near furnaces, combustion heaters, and space heaters. Combustion particles are the by-products of something that is burning, which the smoke alarm may detect.
- Within 6 m of kitchens where combustion particles are normally present. If a 6 m distance is not possible, e.g. in a mobile home, try to install the smoke alarm as far away from the combustion particles as possible. Ensure the area is well ventilated.
- In dead-air areas, where ventilation systems cause air-flow that would not pass through the smoke alarm sensing chamber. Avoid also air-flow from areas where normal combustion particles are expected, such as kitchens. Fig. 4 indicates the correct and incorrect smoke alarm locations.



○ CORRECT LOCATION
✗ INCORRECT LOCATION

Fig. 4 – Dead-air areas

- In damp or very humid areas, or within 3 m of bathrooms with showers. Moisture in humid air can enter the sensing chamber, then condense into droplets upon cooling, which can cause nuisance alarms.
- In very cold or very hot areas, including unheated buildings or outdoor rooms. If the temperature rises above or falls below the operating range of smoke alarm, it may not function properly. The temperature range for your smoke alarm is -10 °C ~ 45 °C.
- In very dusty or dirty areas. Dirt and dust can build up on the smoke alarm's sensing chamber, to make it overly sensitive. Additionally, dust or dirt can block openings to the sensing chamber and limit the smoke alarm from sensing smoke.
- Near fresh air vents or high draft areas like air conditioners, heaters or fans, fresh air vents and drafts, which can drive smoke away from smoke alarms.
- In dead air spaces, which are often at the top of a peaked roof or in apex of ceilings and walls. Dead air may prevent smoke from reaching a smoke alarm. See Fig. 3 and Fig. 4 for recommended mounting location.
- In insect-infested areas. If insects enter a smoke alarm's sensing chamber, they may cause a nuisance alarm. Where insects are a problem, get rid of them before installing the smoke alarm.
- Near fluorescent lights. Electrical "noise" from fluorescent lights may cause nuisance alarms. Do not install smoke alarms within 1.5 m of such lights.

In the above locations, a heat alarm could be installed as additional protection.

Installation and Test

Please read the previous section **Installation Preparation**, before commencing installation.

Installing the Battery

1. Open the seal of the battery and fit them into the battery compartment on the underside of the smoke alarm, see Fig. 5.

NOTE: The battery will snap into place and should not shake loose.



NOTE: When the smoke alarm battery is first contacted, the red LED will flash rapidly 3 times. This is normal and indicates that the battery is positioned properly.

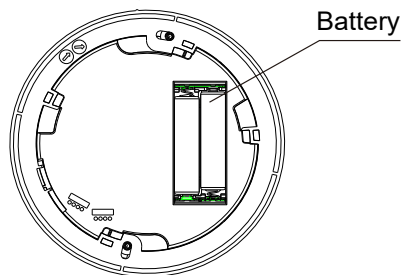


Fig. 5 – Battery compartment

2. Check that the red LED in the Test button flashes every 48 s.
3. Press and hold the Test button for 5 s to check the smoke alarm audible warning operates and the red LED flashes rapidly.



WARNING: The smoke alarm has a loud alarm signal. Use hearing protection when testing smoke alarms.

Installing the Smoke Alarm



WARNING: To avoid the electrical shock hazard, turn off power to the area where you plan to install the alarm at the fuse box or circuit breaker box.

1. At the place where you are going to install the smoke alarm, draw a 150 mm line on the ceiling.
2. Unpack the smoke alarm and mounting base. Keep the smoke alarm safe from any drill dust.
3. Place the base on the ceiling so that the two hole slots are aligned on the line. In each of keyhole slots, draw a mark to locate the mounting plugs.
4. Remove the base from the ceiling.
5. Drill two 5 mm (3/16-inch) holes at the marks and insert the plastic mounting plugs (supplied), or other mounting solution (depending on the ceiling type).
6. Attach the base to the ceiling with the screws supplied (see Fig. 6).

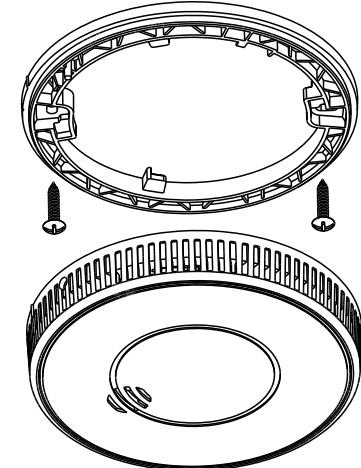


Fig. 6 – Fixing the smoke alarm base

7. Align the slot of the base with the smoke alarm, push the alarm onto the mounting bracket, and turn it clockwise to lock it into place.
8. Gently pull outward on the smoke alarm to make sure it is securely attached to the mounting base.
9. Check that the red LED near the Test button flashes 3 times quickly after energization, and then flash once every 48 s.
10. Press and hold the Test button for 5 s to check the smoke alarm audible warning operates and the red LED flashes rapidly.



WARNING: The smoke alarm has a loud alarm signal. Use hearing protection when testing smoke alarms.

Installing with Optional adhesive base

If drilling on the ceiling is not preferred, optional adhesive base HX-0143 may be purchased with HX-B base for installation of smoke alarm.

Normal Operation

Once installed and tested, your smoke alarm will immediately start monitoring for smoke. If the sounder in the smoke alarm operates, check for a fire and execute your safety plan.

If the alarm was caused by a nuisance situation, open a window or fan the air to remove the smoke or dust from within the smoke alarm. The alarm will turn off as soon as the air is completely clear.

Hush

 **WARNING:** Before using the Hush feature, identify the source of smoke and be certain that safe conditions exist.

If investigation of the alarm signal is likely caused by a known nuisance source (such as cooking fumes), the Test/Hush button can be pressed to silence the smoke alarm for 10 min. During the hush time, the red LED will flash every 8 s. After the hush time has expired, the smoke alarm will automatically return to normal sensitivity. If smoke is still present in the unit, the alarm will re-activate. The hush feature can be used repeatedly.

Care and Maintenance

Weekly Tests

- Press and hold the Test/Hush button for 5 s on each smoke alarm.
- Check the smoke alarm sounder operates with a loud pulsating sound, and the red LED adjacent to the Test/Hush button flashes rapidly.
-  **WARNING:** The smoke alarm has a loud alarm signal. Use hearing protection when testing smoke alarms.
- Release the Test/Hush button to cancel the alarm sound. The smoke alarm will return to normal condition.

 **WARNING:** Never use a naked flame of any kind to test your smoke alarm. You may set fire to and damage the smoke alarm, as well as your home. The built-in Test feature accurately tests all alarm functions.

Annual Maintenance

- Vacuum or carefully wipe the cover of the smoke alarm to remove any dust, lint or dirt around the openings of the smoke alarm. Do not spray aerosols into the smoke alarm.
- After annual maintenance, test all smoke alarms.

Low Battery Alert

When the battery becomes depleted, the smoke alarm will signal a short beep every 48 s. This signal will continue for at least 30 days. Immediately replace the battery with an approved model (see the section User Replaceable Parts). After installation of the battery, conduct the Weekly Test.

NOTE: Batteries supply a lower voltage in cold conditions, so the Low Battery signal may start operating late at night. To avoid annoyance, keep a spare battery on hand, or replace the battery annually before the Low Battery signal is initiated.

Smoke Chamber Fault

If the smoke alarm reports a Smoke Chamber Fault condition, try vacuuming clean the smoke alarm to remove dust. If the condition persists, replace the smoke alarm with a new unit.

 **WARNING: DO NOT PAINT** this product.

Protection From Fire

Installing smoke alarms is only one step in protecting your family from fires. You should also reduce the chances that fires will start in your home and you must increase your chances of escaping safely if one does start. The following information will help you develop a fire safety program.

- Install smoke alarms properly. Carefully follow all the instructions in this manual. Keep your smoke alarms clean, and test them every week.
- Non-working smoke alarms will not alert you. Replace your smoke alarms immediately if they are not working properly.

- Follow fire safety rules, and prevent hazardous situations:
 - 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 open flames 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 materials.
 - Do not allow rubbish to accumulate.
 - Keep a supply of extra batteries on hand for your battery powered smoke alarms.

- Prepare and practice a family escape plan. Review the following with your children each time you have fire escape drills. This will help everyone remember them in case of a real fire emergency.
- Don't panic and stay calm. Your safe escape may depend on thinking clearly and remembering what you have practiced.
 - Get out of the house as quickly as possible. Follow a planned escape route. Do not stop to collect anything or to get dressed.
 - Feel the doors to see if they are hot. If they are not, open them carefully. Do not open a door if it is hot. Use an alternate escape route.
 - Stay close to the floor. Smoke and hot gases rise.
 - Cover your nose and mouth with a wet or damp cloth. Take short, shallow breaths.
 - Keep doors and windows closed. Open them only if you have to in order to escape.
 - Meet at your planned meeting place after leaving the house.
 - Call the Fire Service as soon as possible from outside your house. Give the address and your name.
 - Never go back inside a burning building.
 - Contact your local Fire Service. They will give you more ideas about how to make your home safer from fires and how to plan your family's escape.

User Replaceable Parts

The following batteries are replaceable by the user, and may be purchased from general hardware stores or contact your distributor.

 **WARNING:** Test the device for correct operation according to the requirement every time after battery replacement. Correct operation of the smoke alarm device is ensured by use of one of the following batteries:
LISUN LR03, peak power LR03, LONLIFE LR03, Raymax LR03

References	
Reference	Description
31-0239	HXS-5 & HXS-10 smoke alarm datasheet
33-0158	HX-0143_Adhesive_Base_User_Manual
CE mark	The CE mark affixed to this product confirms its compliance with the European Directives which apply to the product and, in particular, its compliance with the harmonised specifications of

	standard EN 14604:2005 relating to Construction Products Directive 305/2011.
NFPA 72	National Fire Alarm Code, National Fire Protection Association, Inc. Quincy, MA 02269, USA

Disposal

 Smoke alarms should not be disposed of as land-fill. Please dispose in an environmentally friendly manner.





 **WARNING:** This is an important document. Retain it for the life of the smoke alarm.

Limited Warranty

NOTE: In order to protect your rights, please keep the original purchase receipt for the proof of purchase of this Affinity smoke alarm from our authorized dealers. No warranty can be offered without the original purchase receipt.

Affinity warrants its enclosed Smoke Alarm - but not the battery - to be free from defects in materials and workmanship under normal use and service for a period of five years from date of purchase. Affinity makes no other express warranty for this Smoke Alarm. No agent, representative, dealer, or employee of Affinity has the authority to increase or alter the obligations or limitations of this Warranty. Affinity's obligation of this Warranty shall be limited to the repair or replacement of any part of the Smoke Alarm which is found to be defective in materials or workmanship under normal use and service during the five year period, commencing from the date of purchase.

During the initial one-year period, commencing from the date of purchase, such repair or replacement shall be made without charge. During the latter four years of the Warranty period, such repair or replacement shall be made at a charge to the Customer, not to exceed the manufacturer's cost. Units in need of repair should be returned, shipping prepaid, to CUSTOMER SERVICE DEPARTMENT, Affinity International Development Ltd, The Mill House, Boverton, Llantwit Major, CF61 1UH, United Kingdom. Affinity shall not be obligated to repair or replace units, which are found to be in need of repair because of damage, unreasonable use, modifications, or alterations occurring after the date of purchase. The duration of any implied Warranty, including that of merchantability or fitness for any particular purpose, shall be limited to the period of five years commencing with the date of purchase. In no case shall Affinity be liable for any consequential or incidental damages for breach of this or any other Warranty expressed or implied whatsoever, even if the loss or damage is caused by Affinity's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Affinity makes no warranty, expressed or implied, written or oral, including that of merchantability or fitness for any particular purpose, with respect to the batteries. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

View the complete range of products at affinityint.org



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