



User manual

HXH-10 heat alarm



Approved to BS 5446-2:2003
Class A1

	SGS Certificate No.	Interconnection
HXH-10	PT/26/GEN/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 heat alarm does not detect smoke, gas, or flame, and should not be covered with a guard or similar obstructing item.

Hazardous levels of smoke and toxic gas can build up before a heat alarm might operate. Where life safety is the primary requirement in the event of a fire, smoke, gas or combination alarms usually provide earlier warning than heat alarms alone.

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

This heat alarm may not be effective in fires where heat 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 AREAS: Heat alarms should not replace required heat alarms in sleeping areas.



INSTALLATION LIMITATIONS This product is designed for use in a single residential unit, such as a family home or apartment. Heat 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

HXH-10 heat alarms provide battery powered heat detection and alarm functions within a single product.

HXH-10 heat alarms are suitable for general residential applications where a smoke alarm may result in unwanted activation (eg kitchens, garages with exhaust fumes, and areas subject to high levels of dust and other air-borne contaminants).

HXH-10 heat alarms provide home owners with an easy-to-install, premium solution for property protection.

Audible and Visual Alarm Indicators

When operating normally, a red LED adjacent to the Test button will flash every 50 s. When heat 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 heat 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 heat alarm will return to normal mode.

Hush

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

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

Thermistor Fault

If the thermistor has open or short circuit fault, the heat alarm will chirp 3 times every 50 s.

Low Battery

When the battery is depleted, the heat alarm will emit a short audible signal every 50 s for at least 30 days. When the Low Battery signal is given, change the heat alarm battery without delay.

Specifications

Power source	lithium battery for 10 year operation
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

Heat alarms are suitable for residential applications where smoke or gas detectors may cause unwanted alarms. The following locations are suitable for heat alarms.

- Areas where combustion particles are present, such as kitchens with few windows or poor ventilation.
- Garages where there may be vehicle exhaust fumes.
- Near furnaces, combustion heaters, and space heaters.
- Damp or very humid areas, such as bathrooms with showers.
- Dusty or dirty areas.
- Insect-infested areas.



WARNING: Hazardous levels of smoke and toxic gas can build up before a heat alarm might operate. Where life safety is the primary requirement in the event of a fire, smoke, gas or combination alarms usually provide earlier warning than heat alarms alone.

For complete coverage, heat alarms should be installed in all rooms, halls, storage areas, basements, and attics in dwellings. The minimum coverage is one heat alarm on each floor and one outside each sleeping area.

Installation Location

Install heat alarms as close to the centre of the ceiling as possible, away from light fittings and air-conditioning ducts. If this is not practical, mount the heat alarm on the ceiling, no closer than 50 cm from any wall or corner (see Fig. 1).

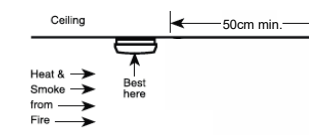


Fig. 1 – Heat alarm location from walls

If some of your rooms have sloped, peaked, or gabled ceilings, try to mount heat alarms 0.9 m measured horizontally from the highest point of the ceiling as shown in Fig. 2.

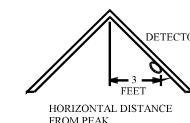


Fig. 2 – Heat alarm location for gabled ceilings

Where Not to Install Your Heat alarm

Heat alarms are not a suitable substitute for smoke alarms required in sleeping areas.

Installation and Test

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

Follow these steps to install your heat alarm.

Installing the Battery

10 year Lithium battery

1. Insert the connector of battery into the socket, see Fig.3. And fit the battery into the battery compartment on the underside of the heat alarm, see Fig. 4.

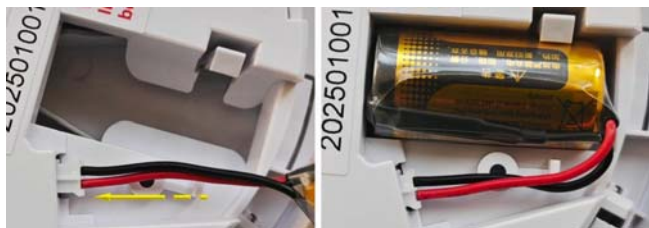


Fig. 3 – Insert battery connector

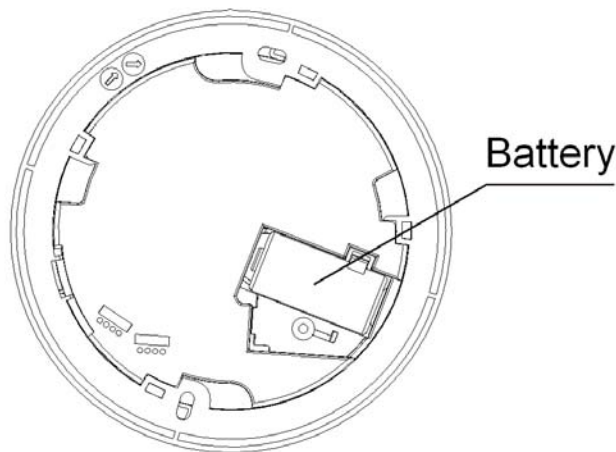


Fig. 4 – Battery compartment

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



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

2. Check that the red LED in the Test button flashes every 50 s.
3. Press and hold the Test button for 5 s to check the heat alarm audible warning operates and the red LED flashes rapidly.



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

Installing the Heat 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 heat alarm, draw a 150 mm horizontal line.
2. Remove the mounting bracket from your heat alarm by rotating it counter-clockwise.
3. Place the bracket so that the two longest hole slots are aligned on the line. In each of keyhole slots, draw a mark to locate the mounting plugs.
4. Remove the bracket from the ceiling.
5. Drill two 5 mm (3/16-inch) holes at the marks and insert the plastic mounting plugs (supplied).
6. Attach the bracket to the ceiling with the screws supplied (see Fig.5).
7. Align the slot of the bracket with the heat alarm, push the alarm onto the mounting bracket, and turn it clockwise to lock it into place.
8. Gently pull outward on the alarm to make sure it is securely attached to the mounting bracket.
9. Press and hold the Test button for 5 s to check the heat alarm audible warning operates and the red LED flashes rapidly.

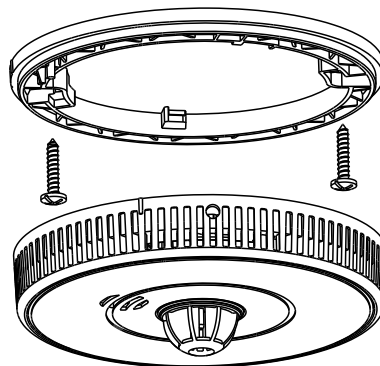


Fig. 5 – Fixing the heat alarm base



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

Normal Operation

Once installed and tested, your heat alarm will immediately start monitoring for heat. If the sounder in the heat 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 heat from around the heat alarm. The alarm will turn off as soon as the area is cool. Do not disconnect the battery to silence the heat alarm.

Care and Maintenance

Weekly Tests

1. Press and hold the Test button for 5 s on each heat alarm.
2. Check the heat alarm sounder operates with a loud pulsating sound, and the red LED in the Test button flashes rapidly.



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



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

Annual Maintenance

1. Replace every 10 years for lithium battery models (see the section User Replaceable Parts).
2. Vacuum or carefully wipe the cover of the heat alarm to remove any dust, lint or dirt on the heat alarm cover. Do not spray aerosols into the heat alarm.
3. After annual maintenance, test all heat alarms.

Low Battery Alert

When the battery becomes depleted, the heat alarm will signal a short beep every 50 s. Immediately replace the battery with an approved model (see the section User Replaceable Parts).

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. The Low Battery signal will operate for at least 30 days.

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Protection From Fire

Installing heat 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.

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

1. Don't panic and stay calm. Your safe escape may depend on thinking clearly and remembering what you have practiced.
2. Get out of the house as quickly as possible. Follow a planned escape route. Do not stop to collect anything or to get dressed.
3. 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.
4. Stay close to the floor. Smoke and hot gases rise.
5. Cover your nose and mouth with a wet or damp cloth. Take short, shallow breaths.
6. Keep doors and windows closed. Open them only if you have to in order to escape.
7. Meet at your planned meeting place after leaving the house.
8. Call the Fire Service as soon as possible from outside your house. Give the address and your name.
9. Never go back inside a burning building.

10. 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. Use only the specified batteries.

Lithium: LISUN CR123A, Huiderei CR123A, EVE CR2/3 AL

 **WARNING:** When using lithium battery, there is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.

 **WARNING:** Test the device for correct operation according to the requirement every time after battery replacement. Correct operation of the heat alarm device is ensured by use of one of the following batteries:

References	
Reference	Description
31-0240	HXH-10 heat alarm datasheet
33-0158	HX-0143_Adhesive_Base_User_Manual
NFPA 72	National Fire Alarm Code, National Fire Protection Association, Inc. Quincy, MA 02269, USA

Disposal

 Heat 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 heat alarm.

Limited Warranty

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

Affinity warrants its enclosed Heat 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 Heat 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 Heat 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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