INSTALLATION **INSTRUCTIONS**

Mains/Battery Operated Heat Alarm
Product Codes: **SHC-WIR-HE**

Thank you for purchasing the SHC-WIR-HE heat alarm. Please take a few minutes to thoroughly read the user guide and familiarize yourself and your family with its operation and save for future reference.

Safety Warning

- The installation should be carried out by a competent person.
- Follow the provided installation instructions, using the fixings supplied or recommended.
- Keep out of reach of children.

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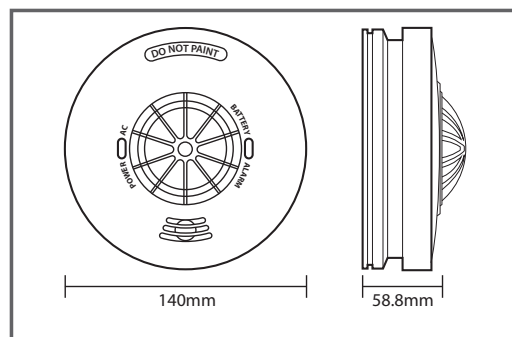
Specification

DESCRIPTION:
Thermistor heat alarm 220-240V AC with 9V DC battery backup, Designed with quick fit base and rapidly detecting NTC Thermistor for detecting temperature increases keeping your household and loved ones safe with wired or built in RF Interlinking function for pairing with Red Arrow mains / battery operated smoke alarms.

Box Contents -
1 x SHC-WIR-HE Wired/Wireless Heat Alarm

Dimensions:	L: 140mm x W: 140mm x D: 58.8mm
Power:	220 - 240V@ 50Hz with 9V battery backup
Product Life:	10 Years after initial activation
Alarm Volume:	>85dB(A) at 3 meters
Alarm Sensitivity:	54°C to 65°C
Sound Pattern:	ISO8201 (BI 0.5s - pause 0.5s - BI 0.5s - pause 0.5s - BI 0.5s - pause 1.5s, with the RED LED flash, repeat this alarm pattern)
Wireless Alarm Sound Pattern:	BI - BI - pause 1.2s, with the red LED flash, repeat this alarm pattern.

DO NOT PAINT — POWER AC — BATTERY ALARM
140mm   58.8mm

5 YRS GUARANTEE | **Easy Install** | **RF & WIRED INTERCONNECT** | **NTC THERMISTOR**
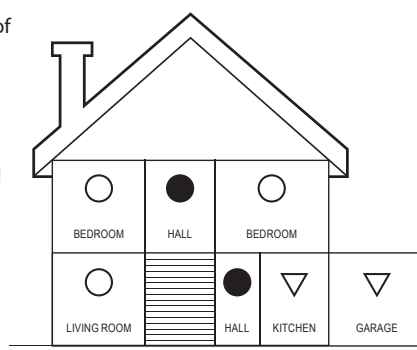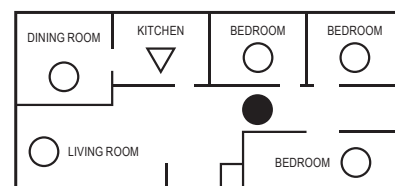
Recommended Installation Locations

The following suggestions are intended to help you to position and install your alarm.

1. For best protection heat alarms should be installed as part of a complete fire protection system that also includes smoke alarms. Heat alarms are best suited to areas such as boiler rooms, kitchens, laundry rooms and garages where dust, fumes and moisture can cause nuisance alarms in smoke detectors. Heat alarms should not be installed in escape routes instead of smoke alarms. They should only be used in the above applications and where possible be interlinked to smoke alarms. (Smoke alarms should be installed in circulation areas forming part of escape routes and in every room in the home). The advice here follows the guidance in British Standard BS 5839 part 6 in general (for further information see the BS standard itself).

2. When heat alarms are installed in a room, they should be placed on the ceiling, ideally in the centre of the room. They should be at a distance no greater than 5.3m from the farthest wall no greater than 5.3m from a door to any room in which a fire might start and no greater than 5.3m from the next heat alarm NOTE: Heat alarms should not be wall mounted.

3. Closed doors and other obstructions will interfere with the path of heat to an alarm and may prevent occupants from hearing an alarm on the other side of a closed door. Install sufficient alarms to compensate for closed doors and obstacles.

4. For further help and information on types and location of fire defection alarms refer to BS5839 pt 6 and the Fire Safety guidance given by the Department of Transport, Local Government and the Regions (DTLR).
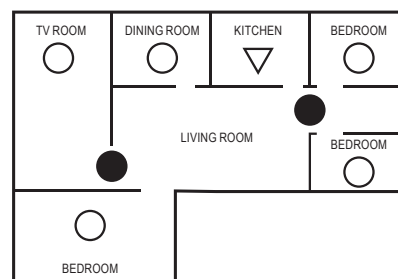
CAUTION: Research indicates that substantial increases in warning time can be obtained with each properly installed additional alarm, It is strongly recommended that the advice in 1 above be followed to ensure maximum protection.

TWO Storey Dwelling

BEDROOM — HALL — BEDROOM
LIVING ROOM — HALL — KITCHEN — GARAGE

- ● Smoke alarms for limited protection
- ○ Additional smoke alarms for better coverage
- ▽ Heat alarms

Single storey, one sleeping

DINING ROOM — KITCHEN — BEDROOM — BEDROOM
LIVING ROOM — BEDROOM

Single storey, two sleeping

TV ROOM — DINING ROOM — KITCHEN — BEDROOM
LIVING ROOM — BEDROOM
BEDROOM

WARNING:
That if there is any question as to the cause of an alarm it should be assumed that the alarm is due to an actual fire and the dwelling should be evacuated immediately.

Locations to Avoid

1. In turbulent air from fans, heaters, doors, windows, etc.

2. In high humidity areas such as bathrooms and shower rooms or where the temperature exceeds 40°C (104°F) or falls below 0°c (32°F)

3. At the peak of an 'A' frame ceiling - dead air at the top may prevent smoke and heat from reaching the alarm to provide an early warning.

4. Less than 300mm (12 inches) from a wall when mounted on the ceiling.

5. In very dusty or dirty areas - dirt and excessive dust can impair the performance of the alarm

6. Within 300mm (12 inches) of a light fitting or room corners.

7. In locations that would make routine testing or maintenance hazardous, (e.g. over a stairwell).

8. On poorly insulated ceilings.

9. Near objects such as ceiling decorations that might impede the path of heat to the alarm.

10. Within 1500mm (5 feet) of a fluorescent light fitting. Further help and information may be found in BS5839 Part 6.

Interconnecting Heat Alarms

- This Smoke Alarm is capable of providing wired and wireless interconnection functions.

- Interconnecting Smoke Alarms can be linked wireless/wired together so that if one alarm is activated then all alarms which are linked in the circuit are also sounded.

- A 9V signal is applied to the interconnect terminals between all wired interconnected Alarms.

- The maximum wiring length is 150m between Alarms.

- The Smoke Alarm wireless module uses coded RF signals and need to be paired before use.
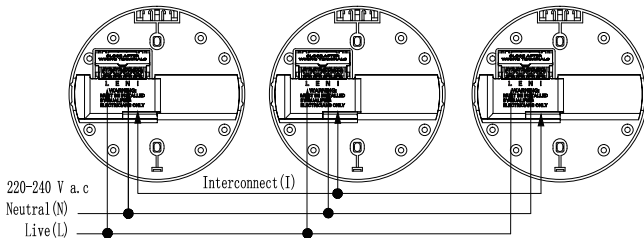
Wiring Diagram for Wired Interconnection
Terminal
L: Live
E: Earth Loop
N: Neutral
I-Connect: Interconnect

Installation - Wired Connection

1. Strip the Live, Neutral and Interconnect (if used) wires back to the strip length shown at Diagram 1. Connect the wires to the correct terminals on the base (shown at Diagram 2) and ensure the terminal screws are fully tightened. Check all wires for continuity and correct termination and ensure that the interconnect wires have not been cross connected to either live or neutral terminations.

2. Ensure that the terminal cover is closed to avoid contact with the live terminals as shown at Diagram 3.

3. Screw the mounting base onto the ceiling using the appropriate fasteners.

4. Clip the heat alarm on to the base.
Note: The heat alarm base will only close with a battery installed. Do not attempt to close without a battery installed.

5. Turn on the mains power and check that the heat alarm Green and Red LED's function:
A) The Green LED should illuminate to show mains power present.
B) The Red LED will pulse every 40 seconds to indicate correct operation and that the backup battery proves serviceable.

6. Press the Test/Hush button to check that the heat alarm works. Installation is not complete until both LEDs are functioning correctly and the alarm has been checked for correct operation.
Wiring must be installed in compliance with local regulations.
In the UK it is recommended that the following coloured cores are used (for example with triple flat 6243Y cable).
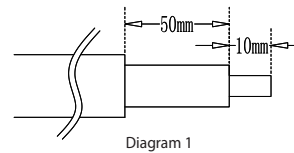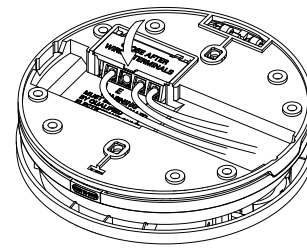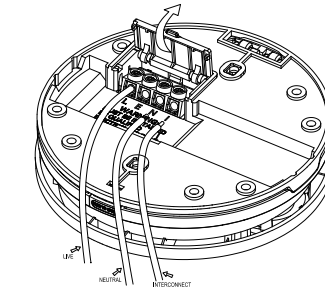

Diagram 1

Diagram 2

Diagram 3

CAUTION
Risk of Injury and equipment damage / malfunction

- All interconnected Smoke Alarms must be supplied from the same circuit.

- A common Neutral must be used for the Interconnect to operate.

- DO NOT connect the Interconnect wire to Live or Neutral.

- A maximum of 40 pcs Heat Alarms can be installed on one circuit (wired interconnection only).

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Failure to follow these instructions may result in injury and equipment damage / malfunction.

WARNING : Electrical shock hazard. Disconnect the AC mains at the fuse box or circuit breaker powering the Alarm before following the cleaning instructions.

WARNING: Wiring should be installed by a qualified electrician in accordance with BS 7 671. We advise you to follow the new harmonized cable colour coding as specified in BS 7671.

Wireless Interconnection Setup
1. Complete installation and turn on the mains power supply.

2. Select one of smoke alarm as the MASTER unit. Treat all other units as SLAVE units.

3. Press the test button on the MASTER unit three times within two seconds, the red LED will flash quickly, the unit is now in sending radio signal mode. This mode will last for 90 seconds.

4. While the MASTER unit is in sending radio signal mode. Press the test button on any SLAVE unit three times within two seconds, the SLAVE unit learns this signaland complete the pairing after a sound "beep" with light flash once.

5. Repeat the above steps on all other SLAVE units.

Clear radio signal mode
Press the test button on any SLAVE unit three times within two seconds, the red LED will flash quickly, then press and hold the test button again until the red light goes out the first time and release the button immediately, the red LED will flash slowly, at this time, press the test button again, the SLAVE unit will beep 3 times, which means that the SLAVE unit clears wireless connected successfully.

CAUTION: The heat alarm is designed to be wirelessly interlinked with up to 40 products. They are not designed to communicate with wireless alarms from other ranges or manufacturers. These alarms need to be "learning" or interlinked in order to communicate with each other. If one alarm activates, all other interlinked alarms will also sound. Only successful interconnection units can clear the radio signal. Clearing the radio signal only removes the radio signal from the slave unit. The MASTER unit can not clear the radio signal.

The SHC-WIR-HE heat alarm can be interconnected with SHC-WIR-SM smoke alarm

Installation

WARNING: Alarm will not attach to mounting bracket unless battery is installed correctly. To prevent injury, this unit must be securely attached to the ceiling in accordance with the installation instructions.

Diagram 4
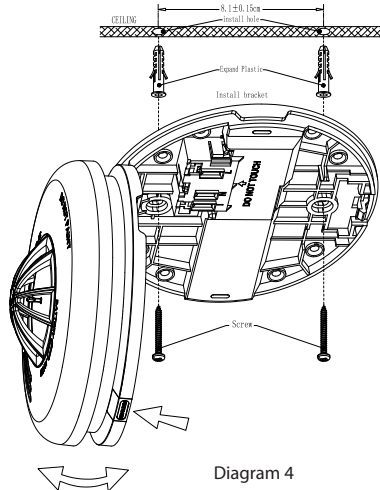
Operation & Testing

TESTING:
Test by pushing the test button on the cover. This will sound the alarm if the electronic circuitry, alarm, and battery are working. If no alarm sounds, the unit has defective batteries or other failures.

DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.

NOTE: WEEKY TESTING IS REQUIRED

Normal Condition
The green LED light is always on and the red LED should flash every 40 seconds to show that the alarm is active.

Alarm Condition
When the alarm detect the high heat and sounds the audible alert, the red LED will flash one flash/second. The flashing LED and pulsating alarm will continue until the detected temperature lower to be normal.

Low Power Pack Condition
IMPORTANT: Your heat alarm requires the power pack (9v DC battery) to have sufficient capacity of power to operate correctly. Should your heat alarm enter a low power pack condition, the unit will emit an audible chirp onceevery 40 seconds. When this occurs, you must replace the battery immediately. Your heat alarm will continue to warn of this low power pack condition for approximately 30 days, however, failure to change the battery after this time would mean your heat alarm may have insufficient power to alert you in a real fire situation. After the battery is replaced, the low power warning chirp will stop.

Fault Indication
The alarm chirp occurs every 40 seconds.

Alarm silence
WARNING: Before using the alarm's hush feature, fully identify the source of the heat build up and make sure that the area is safe. To activate control push and release the alarm control button in the center of the alarm. The alarm will silence immediately and the red light (led) will blink approximately every 10 seconds for the next 8 minutes. This feature is to be used only when a safe condition is known to exist.
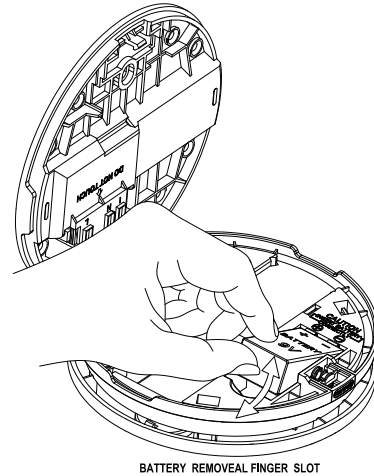
- The Hush feature will silence the alarm for approximately 8 minutes. A rapid rise in temperature will override the false alarm control and cause the unit to sound an alarm. After 8 minutes the heat alarm will revert to normal operation. If the unit still detects a dangerous situation the alarm will sound again.

- If interconnected alarms are installed, the unit that detects the high temperature and sounds the alarm cannot be inadvertently silenced by the TEST/Hush button of other units. In this case all of the alarms will continue to sound for as long as a dangerous situation is detected or until the TEST/Hush button of the initiating alarm is pressed.

- If the alarm does not go into False Alarm Control and continues to sound its alarm, the heat in the area is too high and a dangerous situation may exist - take emergency action.

Battery Replacement

The secondary backup power for the heat alarm is supplied by a 9V alkaline battery. The battery should last at least 5 years under normal operating conditions.

CAUTION: Test the heat alarm for correct operation using the test facility whenever the battery is replaced. Recommended use the following 9V battery for heat alarm battery replacement. Alkaline Battery: Pairdeer 6LR6 l

WARNING: Batteries shall not be exposed to excessive heat or moisture.

BATTERY REMOVEAL FINGER SLOT

Diagram 5

Trouble Shooting

PROBLEM	SOLUTION
Heat alarm does not sound when tested.	1. Check that AC power is turned on. 2.Tum off power. Remove heat alarm from mounting plate and A. Check that connector plug is securely attached. B. Check that battery is installed correctly
The alarm chirp occurs every about approx 40 seconds, at the same time as the red LED flash once.	The battery is in low battery status, please replace battery, and refer to "replace battery"section.
Heat alarm sounds unwanted alarms	Hire an electrician to move heat alarm to a new location. See "Recommended Locations" section of this user guide.
Interconnected heat alarms do not sound when system is tested.	1. Press and hold button for at least, five seconds after the first unit sounds. 2. Tum off AC power or circuit breaker and check the interconnect wiring. See "Interconnecting Heat Alarms" section of this user guide.

Guarantee

This product is guaranteed for a period of 5 years from the date of purchase. The guarantee is invalid in the case of improper use, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current Regulations. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.