1. Welcome

Thank you for purchasing this Honeywell smoke or heat alarm.

The alarm is suitable for use in domestic premises (including static holiday homes) and leisure accommodation vehicles (LAVs)

This manual contains important safety information about the installation and operation of the alarm. Please read the manual carefully and keep it in a safe place for future reference. Please also explain the alarm operation to all other occupants of the building.

You are advised to have a fire evacuation plan, which you should test every month. Everyone in the building should be familiar with the alarm signals, so that they react to them without delay.

Warnings

To avoid dust and debris contamination, the smoke or heat alarm should be removed from the mounting for the duration of any building work involving dust or debris. If this is not possible then the alarm vents must be fully covered with a plastic bag or tape whilst the work is in progress.

While covered, the alarm will not detect fires or smoke, so it is vital the covering is removed when work is completed each day, and replaced the following day if necessary.

The alarm is permanently sealed for safety, so do not attempt to open it.

If you are in any doubt regarding the cause of an alarm it should be assumed that the alarm is due to an actual fire and the dwelling should be evacuated.

2. Description



XH100 XS100 XS100T

Honeywell offers three models of its battery powered smoke or heat alarms:

XH100 is a **heat alarm** approved to BS5446-2:2003.

XS100 is an **optical smoke alarm** approved to EN14604:2005 and uses an optical detection technique only.

XS100T is a **optical-thermal smoke alarm** approved to EN14604:2005, which uses dual detection techniques for quicker response times, wider range of fire types and fewer false alarms.

All have a sealed-in battery with a 10-year lifetime and warranty. They have clear visible status indications for Power (green), Fault (yellow) and three extra-large Alarm indicators (red).

In addition, all versions have an audible alarm and a **TEST/HUSH** button.

Each smoke or heat alarm has a dot on its side indicating which type of alarm it is.

Heat alarm	Optical smoke alarm	Optical-thermal smoke alarm
•	• •	• • •

All Honeywell X-Series alarms (including optional X-Series Carbon Monoxide alarms) can be wirelessly interconnected using an optional plug-in module. This means that if one X-Series Alarm triggers an alarm, all interconnected units will give a loud audible alarm (85dB) as well. This is especially useful, when living in a large or multi-story dwelling. The maximum number of devices that can be added to a network is 32. Some wireless module information is included in this manual for completeness. If equipped, the module will use the indicator for Wireless (blue) on the smoke or heat alarms. The XH100 gives a fire warning when the temperature at the alarm reaches 58°C.



6333
DOP-RSA002
DOP-RSA003
EN 14604:2005/AC:2008

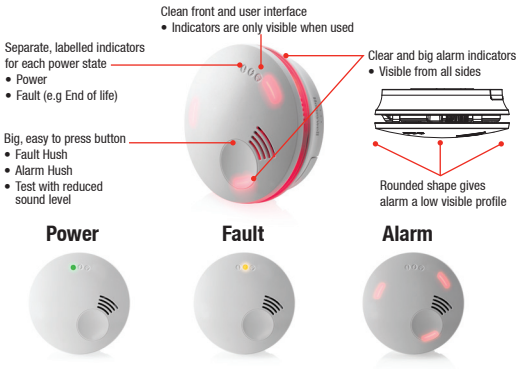
KM 634563
BS EN 14604:2005/AC:2008

KM 630857
BS 5446-2:2003

The CE mark affixed to the XS100 and XS100T confirms their compliance with the European Directives which apply to the products and, in particular compliance with the harmonised specifications of standard EN 14604 relating to Construction Products Regulation 305/2011.

The BSi Kitemark is a product or service certification mark that shows it has been tested independently and audited to ensure it meets the appropriate standards of quality and safety.

3. Smoke and Heat Alarm Operation



All alarms have three (four, if equipped with wireless module) status indicators and a **TEST/HUSH** button.

The green **POWER** light indicates that the unit is activated and working normally.

The red **ALARM** light indicates that a fire has been detected.

The yellow **FAULT** light indicates that the unit is not working properly.

The **TEST/HUSH** button is used to test the unit, or to mute an alarm or fault signal.

Normal operation

The green **POWER** light will flash once per minute, to indicate that your alarm is working*.

Note: There is an option to disable the flashing power light during initial setup e.g. for installation in bedrooms. Please see the installation instructions for further details.

Alarm

If a fire is detected, the red **ALARM** indicators will flash and the loud audible alarm will sound continuously. You should immediately evacuate the premises and then contact the emergency services. (Do not pause to collect property or to ring for help.)

However, if you are certain that it is a false alarm caused by steam, cooking fumes or burnt toast; you can press the **TEST/HUSH** button to silence the alarm for 5 minutes while the air clears.

Caution: If you cannot reach the alarm from floor level, use a broom handle (or similar) to press the test button. Please do not climb on anything to help you reach.

*Note: The Alarm **HUSH** function will silence the alarm for 5 minutes after which the alarm will return to full sensitivity. The Alarm **HUSH** function can be operated repeatedly if required.*

Faults

If the unit is in **FAULT** the **YELLOW** light will flash every minute with one short chirp. (The only exception is a wireless module fault, which is signalled with 3 chirps. In this case, refer to the wireless module manual for further details).

If there are other alarms connected to it in a network, they will flash and chirp every four hours to show that an alarm somewhere in the network has a fault, and that it needs to be investigated.

When an interconnected alarm is in fault or alarm, all the interconnected alarms will chirp. The alarm that is in fault or has detected a threat will chirp and flash. Only the alarm that is in fault or detected the threat can be silenced, silencing the interconnected alarms.

Once the alarm in the fault state is located, counting the number of chirps and flashes will establish whether it is a wireless module fault or a smoke alarm fault.

The chirps can be silenced for 24 hours by pressing the **TEST/HUSH** button until the yellow LED blinks. Pressing the button again will restore the chirps. The 24 hour period can be restarted by pressing the **TEST/HUSH** button twice. When a remote fault occurs, press the **TEST/HUSH** button on the alarm that is in the fault state as that will hush the other alarms in the network.

You must investigate and clear all faults without delay. When you find the faulty alarm:

- Check the 'Replace by...' date, and replace the alarm if it has expired.
- Check the dates on all of the other alarm modules if one module has passed its 'Replace by...' date.

Note: The fault signal could be caused by a low battery, or an electronics failure, or by dust entering the unit and obstructing the optical sensor.

A replace by date is also printed on the side of the unit to facilitate an advance replacement before the end-of-life signal is given. This date includes a 6 months shelf life, i.e. this is the latest date the unit should be replaced.

This package contains:

- ☑ An XS 100 optical smoke alarm which uses the light scattering principle

or

- An XS100T optical-heat alarm which uses the light scattering principle in combination with a heat sensor

or

- An XH100 Heat Alarm (certified by BSi only)

☑ The alarm includes a non-servicable battery giving a 10 year life

☑ Screws and wall plugs for mounting the alarm

☑ Installation and maintenance instructions

3. Smoke and Heat Alarm Operation continued

Status	Lights and Sound				Meaning
	Alarm (Red)	Power (Green)	Fault (Yellow)	Sound	
NORMAL OPERATION*	○	✳	○	🔇	Normal operation No smoke and/or heat present
	Flashes once every minute. *NB light can be switched off (see installation section)				
ALARM	✳	○	○	🔊***	Smoke and/or heat detected
	3 chirps and flashes continuously for 60 minutes. Pattern is then repeated once every 30 seconds.				
REMOTE SMOKE OR HEAT ALARM or REMOTE CARBON MONOXIDE ALARM**	○	○	○	🔊	Fire detected by an interconnected smoke or heat alarm or Carbon monoxide leak detected by an interconnected Carbon Monoxide alarm
	Smoke or heat ALARM: 3 chirps continuously / Carbon Monoxide ALARM: 4 chirps continuously.				
REMOTE FAULT**	○	○	☀	🔊	A wireless connected unit is in fault
	Networked units – 4 chirps and 4 flashes every 4 hours. The fault will be broadcasted on the network				
WIRELESS MODULE FAULT	○	○	☀	🔊***	The wireless module is not working correctly. Refer to the wireless module manual for further details
	Unit with the fault – 3 chirps and 3 flashes every minute. This fault will not be broadcasted on the network				
FAULT	○	○	☀	🔊***	The unit has reached its end of life and must be replaced
	1 chirp and 1 flash every minute				

*unless the light is switched off during installation
**Only applicable when a wireless plug-in module is installed. Only silencing the alarm that is in fault or that detected the threat will silence the interconnected alarms. See Warning in section 1
***unless muted by pressing the TEST/HUSH button

4. Precautions during use

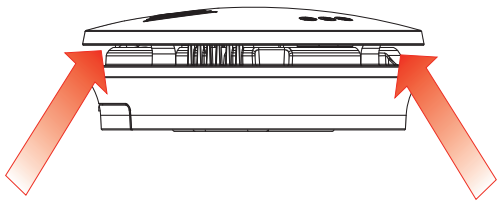
The smoke or heat alarms do not require any maintenance other than to clean the outside case occasionally with a damp cloth and mild detergent.

For the smoke alarms (XS100T, XS100) ensure that the openings on the side of the unit are not blocked with dust or dirt.

Dust and insect contamination can inhibit the operation of the smoke alarm. Use a vacuum cleaner to ensure that it is kept clean and free of dust and other contamination.

Warning

Do not paint the detector



5. Testing your alarm

Automatic self-test

Your smoke or heat alarm has a self-test function, which is performed automatically every 10 seconds.

Monthly Test

The smoke or heat alarm should be tested monthly to check that all visual and audible signals are working.

Press the **TEST/HUSH** button for 1 second to activate a full test cycle showing all lights/messages (green, yellow, red) and sound with the audible output at a reduced level

Hold the **TEST/HUSH** button for 10 seconds or more if you want to test the full 85dB sound level.

Test/Measuring mode overview

Press the button for	1 s	2 s 3 s	4 s 5 s 6s 7s	8s 9s	10s 11s 12s 13s	14s 15s 16s 17s	18+s
Unit mode		Green Flash + chirp Yellow Flash + chirp Red Flash + chirp	Reduced volume alarm pattern	Pause	High volume alarm pattern	Pause	Remote Test* (see 'Monthly Test with Wireless Function note below)
		Done even if button released		Will go back to Normal mode as soon as button released			Button may be released

Warning

If you cannot reach the alarm from floor level, use a broom handle (or similar) to press the test button. Please do not climb on anything to help you reach.

Monthly Test with Wireless Function

To test your wireless alarm communication, press the test/hush button on one alarm and keep it pressed. Once the alarm has completed its full volume alarm test, it enters a Remote Test state comprising one red LED flash with a chirp every 6 seconds. This is repeated by all interconnected alarms, enabling each connected alarm to be checked at the same time. Pressing the test/hush button again returns the alarms back to the Normal Condition. Alternatively, the alarms will return to a normal condition after 10 minutes if the test/hush button isn't pressed.

For more information, refer to the Wireless Module manual.

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Operating and Installation Instructions

Honeywell



X-Series Battery Powered Smoke and Heat Alarms
XS100T Optical-thermal smoke alarm
XS100 Optical smoke alarm
XH100 Heat alarm