

SW1-PF MAINS POWERED OPTICAL SMOKE ALARM
WITH 9V BATTERY BACK-UP
USER MANUAL

220-240 V AC 50-60 Hz mains powered smoke alarm. 9V battery back-up.

WARNING: Wiring should be installed by a qualified electrician in accordance with BS 7671. The wiring must conform to current regulations for electrical installations. Check with local building and fire regulations for your property, to ensure compliance.

Optical smoke alarms are suitable for detecting slow smouldering fires. Like other smoke alarms, they can be subject to nuisance alarms from steam and should not be placed near bathrooms.

For the earliest warning, we recommend smoke alarms are fitted in all rooms where the temperature is between 0°C (32°F) and 40°C (104°F).

Prolonged exposure to temperatures outside those stated above will reduce product life.

This smoke alarm is not intended for any non-residential, commercial or industrial application, nor for any other purpose than described above.

WARNING: Experience has shown that children may not be woken by fire alarm tones. It is important that children are never left alone in a house. Families should have a fire escape plan that is rehearsed, so that everyone knows how to escape when fire occurs. The immediate priority when fire occurs is to ensure that any sleeping children are woken from sleep and are immediately taken to a place of safety outside the property, along with all other occupants. The fire and rescue service should always be called without delay, no matter how small the fire.

Technical Support
Online: www.fireangeltech.com/support
E-mail: technicalsupport@fireangeltech.com
Phone: 0330 094 5830
Fire & Rescue Customers: 0800 141 2561
© 2019 FireAngel Safety Technology Limited
Vanguard Centre, Coventry CV4 7EZ, UK
www.fireangeltech.com

GN5042R11

Note: This user manual is also available in large text and other formats. Please email: technicalsupport@fireangeltech.com or call 0330 094 5830 for further information.

2. INSTALLATION

- 2a** **Switch off electricity supply.**
Ensure a permanent connection to the house wiring is made in a suitable junction box.
- 2b** Using a screwdriver, gently open the 3 clips on the base to remove the base plate.
Fit the base to ceiling using the screws provided. Feed the wiring through the hole in the base plate or via YT2 trunking knock-outs at the side.
- 2c** Connect the wiring to the connector terminals.
Ensure that the house wiring 'Earth' is only terminated in the terminal marked 'E' as indicated.
- 2d** Unwrap battery. Insert battery into battery compartment (match '+' to '+'). Press and hold the test / 🔊 button for 5 seconds. The alarm will sound.
- 2e** **IMPORTANT:** Align arrows on the side of the alarm and the side of the base. Gently push alarm onto base.

3. MAINTENANCE

- 3a** Test the alarm every month.
Press the test / 🔊 button for 5 seconds. The alarm will sound.
- 3b** Vacuum your alarm every 3 months.
- 3c** Do not use cleaners or solvents.
- 3d** Do not paint the alarm.
- 3e** Replace the alarm every 10 years.
- Do not use any other test method except the process described in this manual.

5. OPTIONAL INTERCONNECTING FEATURE

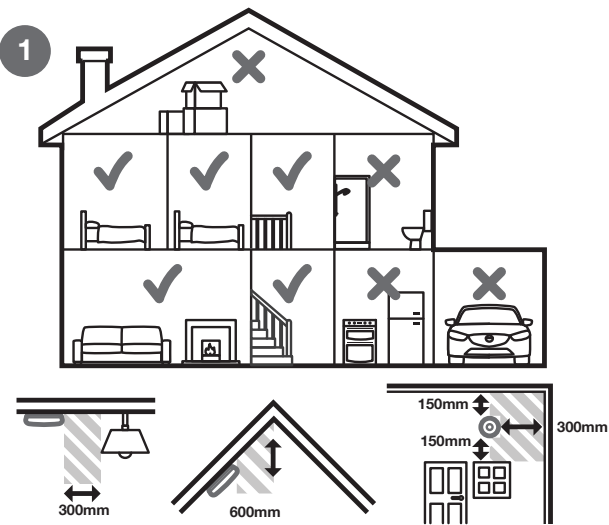
Up to 12 FireAngel mains smoke (SW1/SW10), heat (HW1/HW10) or carbon monoxide (CW1) alarms can be interconnected on a single network.

- 5a** For multiple alarm installations use a 'three core and earth' style cable between all the alarms to be interconnected. Connect the interconnect cable between each alarm's 'I' terminal.
- WIRING KEY**
— = Earth
— = Interconnect
— = Neutral
— = Live
- 5b** Test each alarm and ensure every connected alarm sounds within 10 seconds.
- On an interconnected network, only the alarm that senses the fire will sound and flash its LED. Other connected alarms will sound a warning but will not flash their LED. Do not connect more than 11 other devices.
- IMPORTANT:** The interconnect wire (minimum 0.75 mm2 cable) must be treated as Live, it should be insulated and sheathed.

TROUBLESHOOTING GUIDE

If the green LED does not light when the alarm is connected to power	Check that your smoke alarm is connected to the power supply and that the battery is correctly installed.
If your smoke alarm does not sound during testing	- Check that your alarm is connected to the power supply and that the battery is installed correctly. - If testing after installation, allow a few seconds for the alarm to settle. - Push and hold the centre of the test / 🔊 button firmly for 5 seconds. - Check that the alarm is properly connected to the mains power.
If your smoke alarm activates when no smoke is visible	- Check the location of your smoke alarm. - Clean the smoke alarm
If your smoke alarm sounds unusual or 'chirps' intermittently	- Check the location of your smoke alarm. - Check that your smoke alarm is definitely the source of the chirping; make sure the noise isn't coming from another alarm. - If the alarm 'chirps' every 32 seconds and the red LED flashes at the same time - replace the battery. - If the alarm 'chirps' every 32 seconds without a red LED flash, a fault is indicated - contact Technical Support.
If you experience frequent unwanted alarms	- Check the location of your smoke alarm. - Clean the smoke alarm.

1. POSITIONING



Your smoke alarm is suitable for the landing, hallway, bedroom, living room and dining room.

Smoke alarms should be sited at least 300mm from light fittings and walls. Ideally as central as possible in the room.

If there is fluorescent lighting, smoke alarms should be installed at least 1500mm from these fittings and wiring. Keep any wiring at least 1000mm from fluorescent lighting. Do not use circuits containing fluorescent light fittings or dimmer switches.

Smoke alarms should be positioned at no more than 600mm vertically below the highest point in the room.

If positioning your smoke alarm on the wall, the top of the alarm must be between 150mm and 300mm below the ceiling, and at least 300mm from a neighbouring wall.

Locations of alarms must be compliant with either BS 5839: Part 6 or relevant Building Regulations if in any doubt.

- 2f** Turn the electricity supply back on and check that the green LED is on.



- 2g** **ALARM TEST:**
Press and hold the test / 🔊 button for 5 seconds. The alarm will sound.



If desired, the alarm can be interconnected with up to 11 other smoke (SW1), heat (HW1) or carbon monoxide (CW1) alarms from the FireAngel range via the 'I' connector. (See Optional Interconnecting Feature).

IMPORTANT: The circuit used to Power the alarm must be a 24 hour voltage circuit that cannot be turned off by a switch. In accordance with BS 5839: Part 6, we recommend: For mains powered alarms, each with an integral standby supply, the mains electricity supply should take the form of either a) an independent circuit at the dwelling's main circuit board, in which case no other electrical equipment should be connected to this circuit (other than a dedicated monitoring device installed to indicate failure of the mains electricity supply to the alarms); or b) a separately electrically protected, regularly used local lighting circuit. Check with local building and fire regulations for your property, to ensure compliance.

Ensure dust cover is removed before operation.

The red LED on the front of the alarm should flash once every 32 seconds (approx.) to show that the alarm sensor is actively monitoring for smoke. When the test button is pressed, the alarm will flash once every 8 seconds for 8 minutes.

4. SILENCE FEATURE

In a known false alarm, the alarm can be silenced temporarily.

- 4a** Press and hold the test / 🔊 button for 5 seconds.
- 4b** The alarm will silence for 8 minutes.

Smoke alarms can react to cooking fumes or other non emergency situations. Your alarm features 'Silence' technology. In the event of a known false alarm you can temporarily silence it by pressing the test / 🔊 button. After 8 minutes your alarm will automatically return to full sensitivity.

The red LED on the front of the alarm will flash once every 8 seconds to show that it is in Silence mode.

The alarm will sound continuously and the red LED will flash every second when the alarm senses smoke. **NEVER IGNORE ANY ALARM.** If an alarm is sounding, it is warning you of a potentially hazardous situation. Do not ignore it. Ignoring the alarm may result in injury or death. If your smoke alarm activates and you are not absolutely certain of the source of smoke, get everyone out of the house immediately.

6. LOW BATTERY WARNING

- 6a** When the alarm battery is low, the alarm will 'chirp' and the LED will flash once every 32 seconds.
- 6b** **Switch off electricity supply.**
- 6c** Using a screwdriver, gently open the 3 clips on the base to remove the alarm.
- 6d** Replace the batteries and re-install. (See 'Installation')
- 6e** Always test the alarm after replacing the batteries.

Your alarm requires 1 x 9V (PP3) battery. Under normal use, the battery should last approximately one year. Use of a battery other than those recommended here may have a detrimental effect on the alarm performance: Duracell MN1604, Gold Peak: GP1604S, GP1604A, Raymax: 6F22, 6LR61.

WARRANTY AND DISPOSAL

FireAngel Safety Technology Limited warrants to the original purchaser that its enclosed smoke alarm be free from defects in materials and workmanship under normal residential use and service for a period of 5 (five) years from the date of purchase (not including the replaceable battery). Provided product is sent back to FireAngel Safety Technology Limited with proof and date of purchase, FireAngel Safety Technology Limited hereby warrants that during the 5 (five) year period commencing from the date of purchase FireAngel Safety Technology Limited, at its discretion, agrees to replace the unit free of charge. The warranty on any replacement SW1 alarm, will last for the remainder of the period of the original warranty in respect of the alarm originally purchased – that is from the date of original purchase and not from the date of receipt of the replacement product. FireAngel Safety Technology Limited reserves the right to offer an alternative product similar to that being replaced if the original model is no longer available or in stock. This warranty applies to the original retail purchaser from the date of original retail purchase and is not transferable. Proof of purchase is required.

This warranty does not cover damage resulting from accident, misuse, disassembly, abuse or lack of reasonable care of the product, or applications not in accordance with the user manual. It does not cover events and conditions outside of FireAngel Safety Technology Limited's control, such as Acts of God (fire, severe weather etc.). It does not apply to retail stores, service centres or any distributors or agents. FireAngel Safety Technology Limited will not recognise any changes to this warranty by third parties.

FireAngel Safety Technology Limited shall not be liable for any incidental or consequential damages caused by the breach of any expressed or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration for 5 (five) years.

This warranty does not affect your statutory rights. Except for death or personal injury, FireAngel Safety Technology Limited shall not be liable for any loss of use, damage, cost or expense relating to this product or for any indirect, or consequential loss, damages or costs incurred by you or any other user of this product.

DISPOSAL

Waste electrical products should not be disposed of with your other household waste. The alarm is ideally suited for disposal within the waste electronic and electrical equipment (WEEE) recycling scheme.

Please recycle where facilities exist. Check with your local authority, retailer or contact our Technical Support team for recycling/disposal advice as regional variations apply.

Once the batteries are removed, the low battery warning chirp will stop. The batteries should always be removed before disposal.

Do not attempt to open. Do not burn.