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FireAngel SW1-R

FireAngel SW1-R Mains Powered Optical Smoke Alarm User Manual

Model: SW1-R

1. Product Overview

The FireAngel SW1-R is a mains-powered optical smoke alarm designed to provide early warning of fire. It features a 9V backup battery to ensure continuous protection during power outages. The alarm emits a loud 85dB sound at 3 meters and includes LED visual indicators for clear alerts.
This optical smoke alarm is particularly effective at detecting slow-burning fires that produce thick white smoke, making it suitable for general living areas.

Key Features:

- **Mains Powered with 9V Battery Backup:** Ensures continuous operation even during power failures.
- **Optical Smoke Sensor:** Detects slow-burning fires and reduces false alarms.
- **Interlink Capability:** Can be hardwired and interconnected with up to 12 compatible FireAngel smoke (SW1), heat (HW1), or carbon monoxide (CW1) alarms.
- **Test/Silence Button:** Allows for easy testing of the alarm and temporary silencing of false alarms.
- **Loud 85dB Alarm:** Provides clear audible warning.
- **LED Indicators:** Visual alerts for alarm status.
- **Sleep Easy Function:** Temporarily silences low battery chirps for up to 8 hours.
- **Certified:** Meets British Safety Standard EN 14604: 2005.

Figure 1: Front view of the FireAngel SW1-R Mains Powered Optical Smoke Alarm.

Figure 2: FireAngel SW1-R Smoke Alarm highlighting its 9V backup battery, audible/visual alerts, and large test button.

2. Important Safety Information

Please read all instructions carefully before installation and operation. Keep this manual for future reference.

- **Electrical Safety:** Installation must be carried out by a qualified electrician in accordance with local wiring regulations. Always disconnect the mains electricity supply before installation or maintenance.
- **Placement:** Smoke alarms should be sited at least 300 mm (12 inches) from light fittings and walls.
- **Avoidance Areas:** This smoke alarm is **not suitable** for installation in kitchens, bathrooms, garages, or areas with high humidity, dust, or extreme temperatures, as these conditions can lead to false alarms.
- **Do Not Paint:** Never paint the smoke alarm. Paint can block the smoke entry points and interfere with the sensor's operation.
- **No Cleaners:** Do not use cleaning agents or solvents on the device. Wipe with a dry cloth only.
- **Obstruction:** Ensure the alarm is not obstructed by furniture, curtains, or other objects that could prevent smoke from reaching the sensor.
- **Regular Testing:** Test the alarm monthly to ensure proper function.

Figure 3: Illustration of recommended placement guidelines for the smoke alarm, showing distance from walls and light fittings, and unsuitable locations.

3. Package Contents

Verify that all items are present and undamaged upon opening the package:

- 1x FireAngel SW1-R Smoke Alarm Unit
- 1x Base Plate
- 1x 9V Battery (for backup)
- 2x Screws
- 2x Rawl Plugs
- 1x Instruction Manual (this document)

4. Installation Guide

Important: Installation should only be performed by a competent person or qualified electrician. Ensure the mains power supply is switched off at the consumer unit before commencing installation.

4.1. Pre-Installation Steps:

1. **Select Location:** Choose a suitable location on the ceiling, adhering to the placement guidelines (refer to Section 2).
2. **Disconnect Power:** Turn off the mains electricity supply to the circuit where the alarm will be installed.
3. **Install Backup Battery:** Open the battery compartment on the alarm unit and insert the supplied 9V battery, observing polarity. Close the compartment securely.

4.2. Mounting the Alarm:

4. **Mark Drilling Points:** Hold the base plate against the ceiling at your chosen location and mark the two drilling points.
5. **Drill Holes:** Drill holes at the marked points and insert the rawl plugs.
6. **Mount Base Plate:** Secure the base plate to the ceiling using the provided screws.
7. **Connect Wiring:** Connect the mains wiring (Live, Neutral, Earth, and Interlink if applicable) to the terminal block provided. Ensure connections are secure and correct. The alarm unit connects to this terminal block.
8. **Attach Alarm Unit:** Align the smoke alarm unit with the base plate and twist clockwise until it clicks securely into place.

Figure 4: Visual guide for easy installation, showing steps like installing the backup battery, mounting the bracket, attaching the alarm, and connecting to mains power.

4.3. Interlinking Multiple Alarms:

The SW1-R can be hardwired and interconnected with up to 12 compatible FireAngel mains-powered smoke (SW1), heat (HW1), or carbon monoxide (CW1) alarms. To interlink, connect the interlink wire between the designated terminals on each alarm's base plate. When one interlinked alarm detects a hazard, all connected alarms will sound simultaneously.

4.4. Post-Installation Check:

8. **Restore Power:** Turn the mains electricity supply back on.
9. **Test Alarm:** Press and hold the Test/Silence button for 5 seconds to confirm the alarm is functioning correctly. A loud, high-pitched sound indicates proper operation.

5. Operating Instructions

5.1. Normal Operation:

Under normal conditions, the alarm will periodically flash its LED indicator to show it is powered and monitoring for smoke. If smoke is detected, the alarm will sound a loud siren and the LED will flash rapidly.

5.2. Test/Silence Button:

- **Testing:** Press and hold the large central Test/Silence button for approximately 5 seconds. The alarm will sound a loud siren, confirming its functionality. Release the button to stop the test. Perform this test monthly.
- **Silencing False Alarms:** In the event of a nuisance alarm (e.g., from cooking fumes), press and hold the Test/Silence button. This will temporarily silence the alarm for approximately 8 minutes. The alarm will automatically reset after this period. If the smoke source persists, the alarm will reactivate.

5.3. Sleep Easy Function:

If the 9V backup battery is low, the alarm will emit a regular "chirp" sound. To temporarily silence these low battery chirps for up to 8 hours, press the Test/Silence button. This allows for an uninterrupted night's sleep while still maintaining protection. Replace the battery as soon as possible after using this function.

6. Maintenance

Regular maintenance ensures the continued reliability and effectiveness of your smoke alarm.

- **Monthly Test:** Press the Test/Silence button monthly to ensure the alarm is functioning correctly.
- **Quarterly Cleaning:** Vacuum the alarm gently every 3 months using a soft brush attachment to remove dust and debris from the sensing chamber. This helps prevent false alarms and maintains sensor sensitivity.
- **Battery Replacement:** Replace the 9V backup battery immediately when the alarm emits low battery chirps that cannot be silenced or if the Sleep Easy function is used.
- **Avoid Chemicals: DO NOT** use cleaners, solvents, or paint on the alarm.
- **Cover During DIY:** Cover the alarm when performing dusty DIY tasks nearby to prevent dust ingress, then uncover and vacuum thoroughly afterwards.

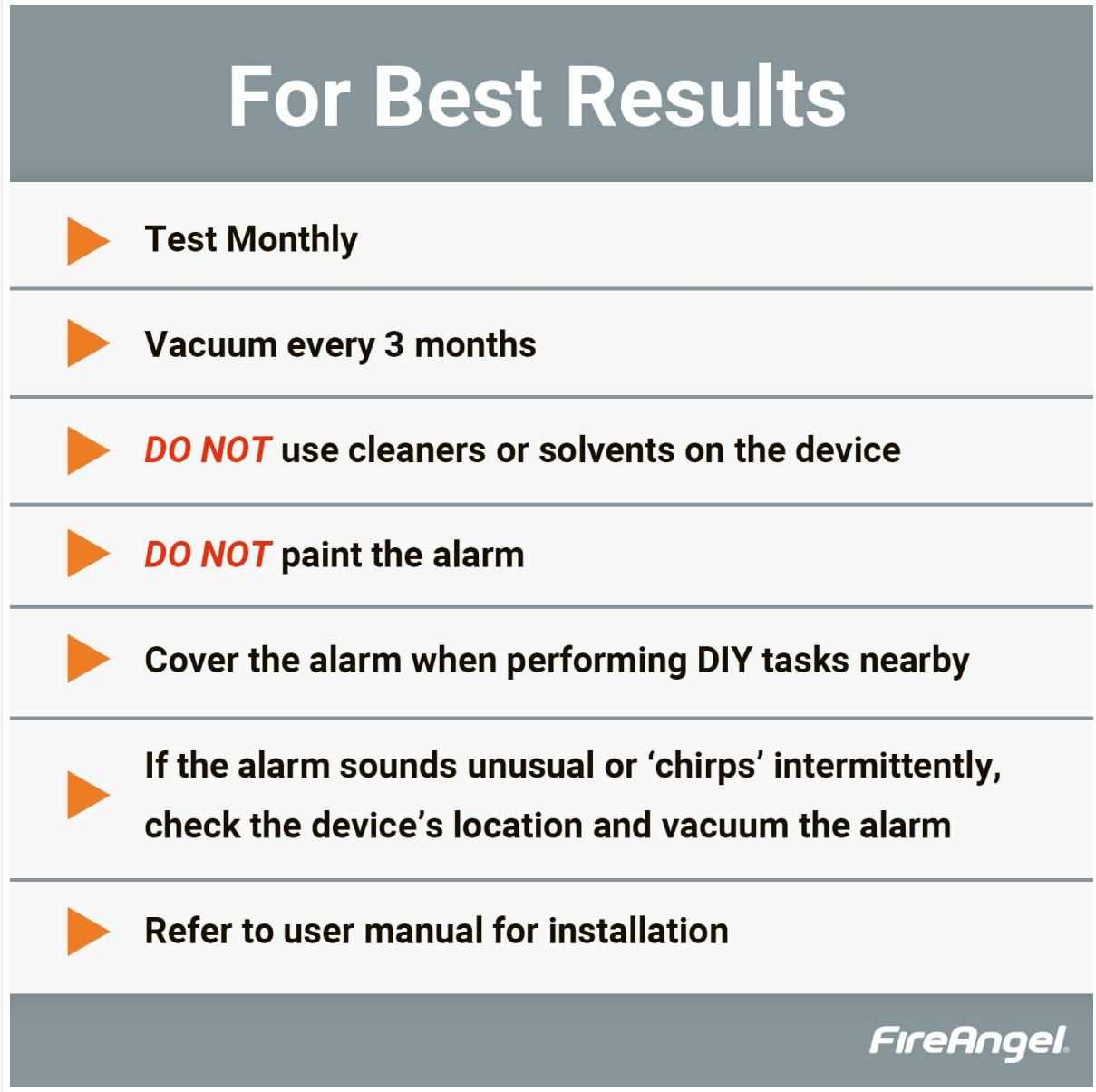

Figure 5: Visual summary of key maintenance recommendations for the smoke alarm, including monthly testing and quarterly vacuuming.

7. Troubleshooting

If your smoke alarm is not operating as expected, refer to the following table for common issues and solutions:

Problem	Possible Cause	Solution
Alarm chirps intermittently	Low 9V backup battery.	Replace the 9V battery immediately. Use the Sleep Easy function if needed for temporary silence.
Alarm sounds without visible smoke (false alarm)	Dust or debris in the sensing chamber; high humidity; cooking fumes; steam.	Press the Test/Silence button to temporarily silence. Vacuum the alarm thoroughly. Relocate the alarm if it's consistently affected by cooking fumes or steam.
Alarm does not sound during test	No mains power; flat 9V backup battery; faulty unit.	Check mains power supply. Replace 9V battery. If problem persists, contact customer support.

Problem	Possible Cause	Solution
Interlinked alarms do not all sound	Faulty interlink wiring; incompatible alarms; too many alarms interlinked.	Check interlink wiring connections. Ensure all interlinked alarms are compatible FireAngel models. Do not exceed 12 interlinked alarms.

8. Technical Specifications

Model Number	SW1-R
Sensor Type	Optical (Photoelectric)
Power Source	Mains Powered (230V AC) with 9V DC Battery Backup
Alarm Volume	85dB at 3 meters
Interlink Capability	Up to 12 compatible FireAngel mains-powered alarms
Product Dimensions (D x W x H)	4.2D x 12.6W x 12.6H Centimeters
Item Weight	220 Grams
Operating Temperature	Refer to product packaging for specific range
Humidity Range	Refer to product packaging for specific range
Standards	BS EN 14604: 2005
UPC	816317004422

Figure 6: The FireAngel SW1-R Smoke Alarm displaying its UKCA and CE certifications, indicating compliance with safety standards.

9. Warranty and Customer Support

9.1. Warranty Information:

The FireAngel SW1-R Mains Smoke Alarm comes with a **5-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage caused by misuse, accidental damage, unauthorized modifications, or failure to follow the instructions in this manual.

9.2. Customer Support:

For technical assistance, warranty claims, or further information regarding your FireAngel SW1-R smoke alarm, please contact FireAngel customer support. Refer to the FireAngel official website or product packaging for the most up-to-date contact details.

Website: www.fireangel.co.uk (Example link, actual link may vary by region)

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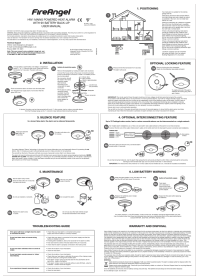
This manual is subject to change without notice.

Related Documents - SW1-R

	FireAngel HW1 Mains Powered Heat Alarm User Manual Comprehensive user manual for the FireAngel HW1 Mains Powered Heat Alarm with 9V battery backup. Includes installation, positioning, silencing features, interconnecting options, maintenance, troubleshooting, and warranty information.
	FireAngel Smoke & Heat Alarm User Manual: FA6611, FA6615, FA6620, FA6720 Comprehensive user manual for FireAngel FA6611, FA6615, FA6620 optical smoke alarms and FA6720 heat alarm. Covers installation, maintenance, troubleshooting, warranty, and disposal.
	FireAngel ST-625-INT Smoke Alarm User Manual Comprehensive user manual for the FireAngel ST-625-INT smoke alarm, covering installation, features, maintenance, and warranty. This guide provides essential safety information and operational instructions.
	FireAngel SCB10 Combination Smoke and Carbon Monoxide Alarm User Manual User manual for the FireAngel SCB10, a combination smoke and carbon monoxide alarm, providing comprehensive instructions on installation, operation, maintenance, and safety for residential use.
	FireAngel Smoke and Heat Alarm User Manual: FA6611, FA6615, FA6620, FA6720 User manual for FireAngel Optical Smoke Alarms (FA6611, FA6615, FA6620) and Heat Alarms (FA6720). Provides detailed information on positioning, installation, maintenance, troubleshooting, silence and sleep easy features, warranty, and disposal instructions for ensuring home fire safety.
	FireAngel SM-SN-1 and HM-SN-1 Mains Powered Smoke and Heat Alarm Installation and User Guide Comprehensive guide for installing and using FireAngel SM-SN-1 (Mains Powered Smoke Alarm) and HM-SN-1 (Mains Powered Heat Alarm). Covers system grades, positioning, hardwire and wireless interlinking, alarm testing, smart silence features, troubleshooting, maintenance, and warranty information.