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› [SECAIR](#) /

› SECAIR ZR170S Photoelectric Smoke Detector User Manual

SECAIR ZR170S

SECAIR ZR170S Photoelectric Smoke Detector

USER MANUAL

Model: ZR170S | Brand: SECAIR

Introduction

This manual provides essential information for the installation, operation, and maintenance of your SECAIR ZR170S Photoelectric Smoke Detector. Please read it thoroughly before use and retain it for future reference. This device is designed to detect smoke and alert occupants to potential fire hazards, contributing to your home safety.



Image: The SECAIR ZR170S smoke detector, a compact white cylindrical device.

Safety Information

- Do not paint the smoke detector. Paint can clog the smoke sensing chambers and prevent the unit from functioning correctly.
- Do not block the smoke inlet. Ensure the detector's vents are clear of obstructions.
- Test the detector regularly, at least once a week, to ensure proper operation.
- Do not install in areas with high humidity (e.g., bathrooms), extreme temperatures, or excessive dust, as these conditions can lead to false alarms or malfunction.
- The battery is sealed and non-replaceable. Do not attempt to open the unit or replace the battery. Tampering with the device may void the warranty and compromise safety.
- An alarm indicates the presence of smoke. **Evacuate immediately and call emergency services.** Do not assume it is a false alarm without verifying.

Package Contents

Verify that all items are present in the package:

- 1 x SECAIR ZR170S Smoke Detector

- Mounting screws and anchors
- Adhesive pad
- User Manual

Product Features

- **10-Year Sealed Lithium Battery:** Provides continuous protection without battery replacement for up to 10 years, ensuring long-term reliability.
- **Photoelectric Sensor:** Utilizes an advanced photoelectric sensor for accurate smoke detection, minimizing nuisance alarms from cooking or steam.
- **Loud 85dB Alarm:** Emits a piercing alarm sound exceeding 85 decibels at 3 meters, designed to alert all occupants, even deep sleepers.
- **Compact Design:** With dimensions of 52x52mm, this mini smoke detector offers a discreet and aesthetically pleasing installation.
- **Easy Installation:** Offers two convenient mounting options: traditional screw fixation or a quick adhesive pad application.
- **Mute Button:** Features a built-in mute button to temporarily silence nuisance alarms for approximately 10 minutes.
- **Self-Test Function:** Allows for easy and regular verification of the device's functionality by pressing the test button.
- **Insect-Proof Design:** Equipped with a fine mesh to prevent insects from entering the sensing chamber, reducing the likelihood of false alarms.
- **Fire-Retardant ABS Material:** Constructed from durable, fire-retardant ABS material for enhanced safety and longevity.
- **EN14604 Certified:** Complies with European safety standard EN14604 for smoke alarms.

Rauchmelder 10 Jahre Batterie

Brandmelder nicht herausnehmbare
10 jahres batterie für 10 jahre
schutz rund um die uhr.



Image: A diagram illustrating the smoke detector's features, including the 85dB buzzer, smoke inlet, red indicator light, and test/mute button.

Setup and Installation

1. Choosing a Location

Proper placement is crucial for effective smoke detection. Follow these guidelines:

- Install at least one smoke detector on each floor of your home, including basements and attics.
- Place detectors in hallways, near sleeping areas, and in living rooms.
- For optimal protection, consider installing a detector in each bedroom.
- Avoid installing detectors in or near kitchens, bathrooms, garages, or areas near heating/cooling vents, fans, or fireplaces, as these can cause nuisance alarms.
- Mount the detector on the ceiling, at least 10 cm (4 inches) from any wall.
- For sloped ceilings, install the detector within 90 cm (3 feet) of the highest point.

2. Mounting the Detector

The SECAIR ZR170S offers two installation methods:



Image: Illustration showing both screw fixation and adhesive pad installation methods.



Image: A hand holding the compact smoke detector, showing its 5.2cm dimensions and the mounting bracket.

Screw Installation:

1. Use the mounting bracket as a template to mark two drilling points on the ceiling.
2. Drill holes at the marked points and insert the provided anchors.
3. Attach the mounting bracket to the ceiling using the provided screws.
4. Align the smoke detector with the mounting bracket and twist it clockwise until it clicks securely into

place.

Adhesive Pad Installation:

1. Ensure the ceiling surface is clean, dry, and smooth.
2. Peel off the protective film from the adhesive pad and firmly press it onto the back of the smoke detector.
3. Press the detector firmly onto the desired ceiling location for at least 30 seconds to ensure strong adhesion.

3. Activation

The detector activates automatically once it is properly attached to the mounting bracket (for screw installation) or firmly pressed onto the ceiling (for adhesive installation). A short beep and a single flash of the red LED will confirm successful activation.

Operating Instructions

1. Normal Operation

During normal operation, the red LED indicator will flash approximately every 60 seconds. This indicates that the detector is powered on and functioning correctly.

2. Testing the Alarm

It is recommended to test your smoke detector weekly to ensure it is working properly.

1. Press and hold the "Test/Mute" button on the detector for a few seconds.
2. The alarm will sound loudly (85dB) and the red LED will flash rapidly.
3. Release the button to stop the test.



Image: A finger pressing the test/mute button on the smoke detector.



Image: The smoke detector emitting an alarm sound, indicated by red concentric circles.

3. Mute Function

In case of a nuisance alarm (e.g., from cooking fumes or steam), you can temporarily silence the alarm:

- Press the "Test/Mute" button once.
- The alarm will silence for approximately 10 minutes. The red LED will continue to flash every 10 seconds during the mute period.
- The detector will automatically reset after the mute period if smoke is no longer present. If smoke persists, the alarm will reactivate.

Maintenance

1. Regular Testing

Test the smoke detector weekly by pressing the "Test/Mute" button to ensure its alarm and circuitry are functioning correctly.

2. Cleaning

Dust and debris can accumulate in the smoke sensing chamber and affect performance. Clean the detector at least once a month:

- Use a soft brush or a vacuum cleaner with a soft brush attachment to gently remove dust from the vents and around the detector.
- Do not use water, cleaning agents, or solvents, as these can damage the unit.



Image: A close-up view highlighting the 1mm insect screen holes designed to prevent insect entry.



Image: The smoke detector performing an automatic self-check, indicated by circular arrows.

3. Battery

The SECAIR ZR170S is equipped with a built-in, non-replaceable lithium battery designed to last for 10 years. When the battery is nearing its end of life, the detector will emit a short beep approximately every 40-60 seconds, and the LED will flash. When this occurs, the entire smoke detector unit must be replaced immediately.



10 Jahre versiegelte Lithium-Batterie

Schutz der Familie
zu jeder Zeit



Image: An exploded view of the smoke detector, highlighting the internal 10-year sealed lithium battery.

Troubleshooting

Problem	Possible Cause	Solution
False Alarms	Steam, cooking fumes, excessive dust, high humidity, insects.	Use the mute function. Relocate the detector if false alarms are frequent due to environmental factors. Clean the detector regularly.
Alarm Does Not Sound During Test	Unit not activated, faulty unit, battery depleted.	Ensure the unit is properly twisted onto the mounting bracket. If still not working, and the unit is old, it may need replacement.
Chirping Sound (every 40-60 seconds)	Low battery warning.	The 10-year battery is nearing its end of life. Replace the entire smoke detector unit immediately.
No LED Flash in Normal Operation	Unit not activated, faulty unit, battery depleted.	Ensure proper activation. If the unit is old and not flashing, replace it.

Specifications

Feature	Detail
Brand	SECAIR
Model Number	ZR170S
Sensor Type	Photoelectric
Power Source	10-Year Sealed Lithium Battery (non-replaceable)
Alarm Volume	>85 dB at 3 meters
Product Dimensions	5.2 cm (Diameter) x 5.2 cm (Height)
Item Weight	50 Grams
Operating Humidity	≤95% RH (non-condensing)
Operating Temperature	0°C to 55°C
Certification	EN14604
Material	Fire-Retardant ABS

Warranty and Support

This SECAIR smoke detector is covered by a standard manufacturer's warranty. For warranty claims, technical support, or further assistance, please contact SECAIR customer service through your retailer or the official SECAIR website. Please have your model number (ZR170S) and purchase information ready when contacting support.