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## Aroha Electronics CS11

# Aroha Safety Pro Combimelder (Model CS11) User Manual

10-Year Battery Smoke and Carbon Monoxide Detector

## 1. PRODUCT OVERVIEW

The Aroha Safety Pro Combimelder (Model CS11) is an advanced 2-in-1 device designed to provide early warning of both smoke and dangerous levels of carbon monoxide (CO). This detector features a sealed 10-year lithium battery, ensuring long-term, maintenance-free operation. It incorporates photoelectric sensors for effective smoke detection and electrochemical sensors for accurate carbon monoxide monitoring.

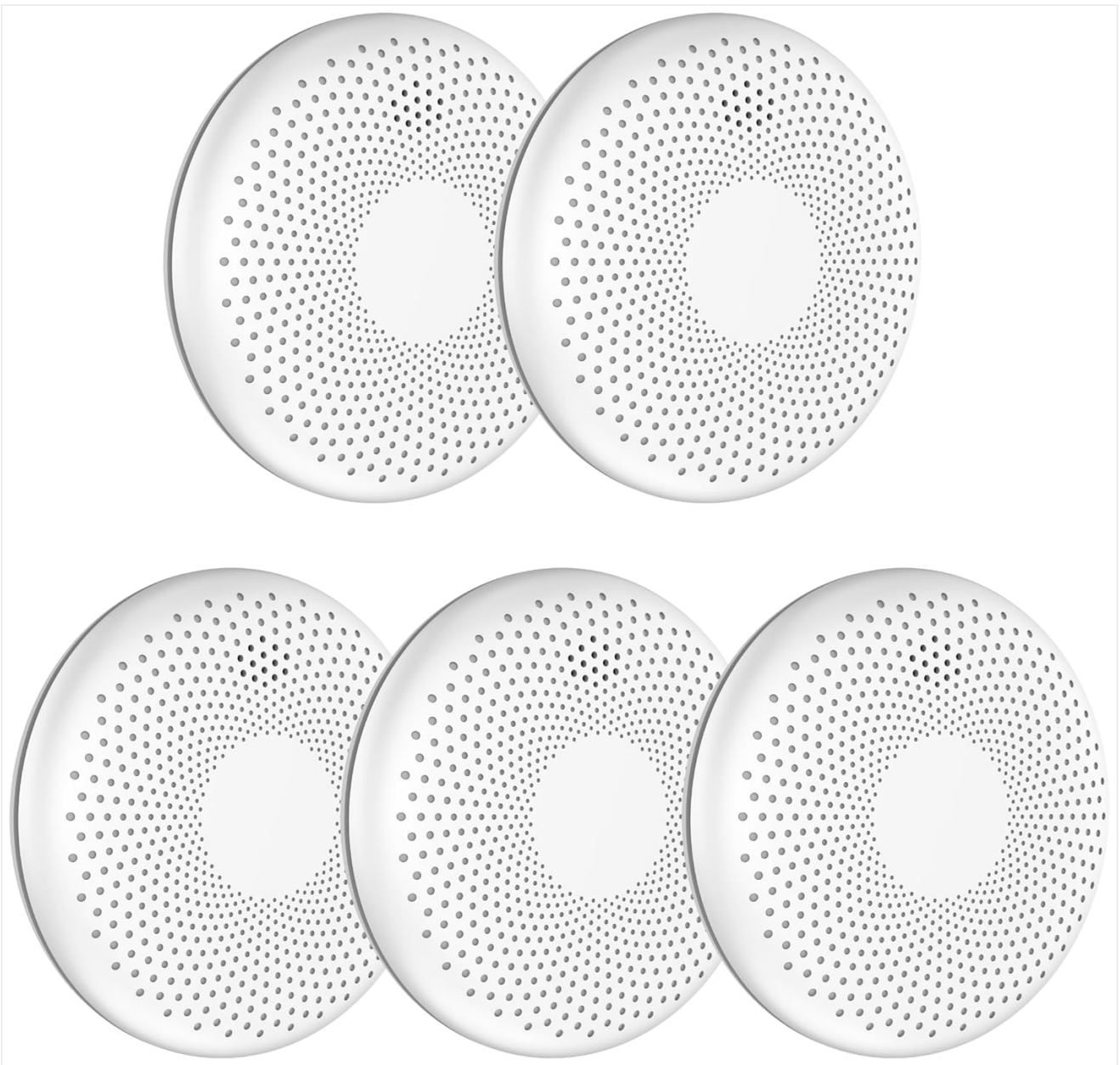


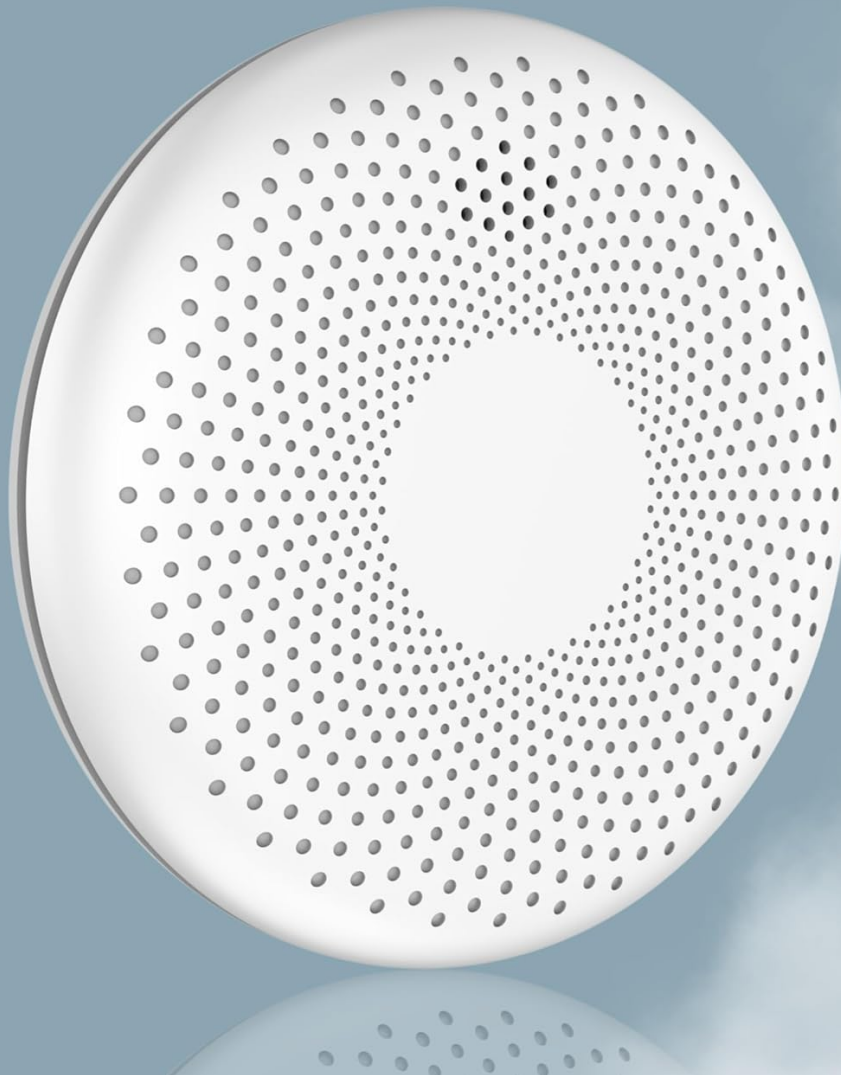
Image 1.1: Aroha Safety Pro Combimelder 5-pack.

### Key Features:

- **2-in-1 Protection:** Detects both smoke and carbon monoxide.
- **10-Year Battery Life:** Sealed lithium battery provides continuous power for a decade. The battery is non-replaceable.
- **Photoelectric Smoke Sensor:** Highly effective at detecting slow-burning fires.
- **Electrochemical CO Sensor:** Accurately detects carbon monoxide levels.
- **85 dB Alarm:** Loud audible alarm to alert occupants.
- **Test/Mute Button:** Large, easily accessible button for testing and silencing alarms.
- **Intelligent Self-Test:** Performs automatic checks every minute to ensure functionality.
- **Certified Safety:** Complies with European safety standards EN14604 (smoke) and EN50291 (carbon monoxide).
- **Compact Design:** Ultra-thin and round design (12 cm diameter, 2.8 cm height).

# 2-in-1 oplossing

rookmelder en koolmonoxidemelder



10 jaar  
batterij



LED-  
indicator



Zelftest

Image 1.2: Features of the Aroha Safety Pro Combimelder.

## 2. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in improper operation, property damage, or personal injury.

- This device is designed for indoor use only.
- Do not paint the detector. Paint can clog the sensor openings and interfere with proper operation.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust/dirt.
- Regularly test the detector as described in the 'Testing' section.
- The 10-year battery is sealed and non-replaceable. Do not attempt to open the unit or replace the battery.
- This device is not a substitute for proper ventilation and maintenance of fuel-burning appliances.
- In case of an alarm, evacuate the premises immediately and call emergency services.

# Gecertificeerde veiligheid

Aroha melders zijn CE- en NEN-gecertificeerd volgens de hoogste EU standaarden



Image 2.1: The Aroha Safety Pro Combimelder is CE and NEN certified.

## 3. PACKAGE CONTENTS

Ensure all items are present and undamaged upon opening the package:

- Aroha Safety Pro Combimelder(s)
- Mounting bracket(s)
- Screws and wall plugs
- User manual

## 4. INSTALLATION

The Aroha Safety Pro Combimelder is designed for easy installation. Follow these steps for optimal placement and secure mounting.

### 4.1 Recommended Placement:

- Install at least one detector on each floor of your home, including the basement.
- Place detectors in or near sleeping areas.
- For smoke detection, mount on the ceiling in the center of the room, or at least 10 cm (4 inches) from any wall.
- For CO detection, place the detector at breathing height in rooms with fuel-burning appliances.
- Avoid placing near windows, doors, or ventilation openings that could interfere with detection.
- Avoid placing in 'dead air' spaces, such as the peak of a vaulted ceiling or in corners.

#### 4.2 Mounting Instructions:

1. Choose a suitable location according to the recommendations above.
2. Use the mounting bracket as a template to mark two drill holes on the ceiling or wall.
3. Drill the holes and insert the wall plugs.
4. Attach the mounting bracket using the provided screws.
5. Align the detector with the mounting bracket and twist clockwise until it clicks securely into place.
6. The detector will automatically activate upon installation.

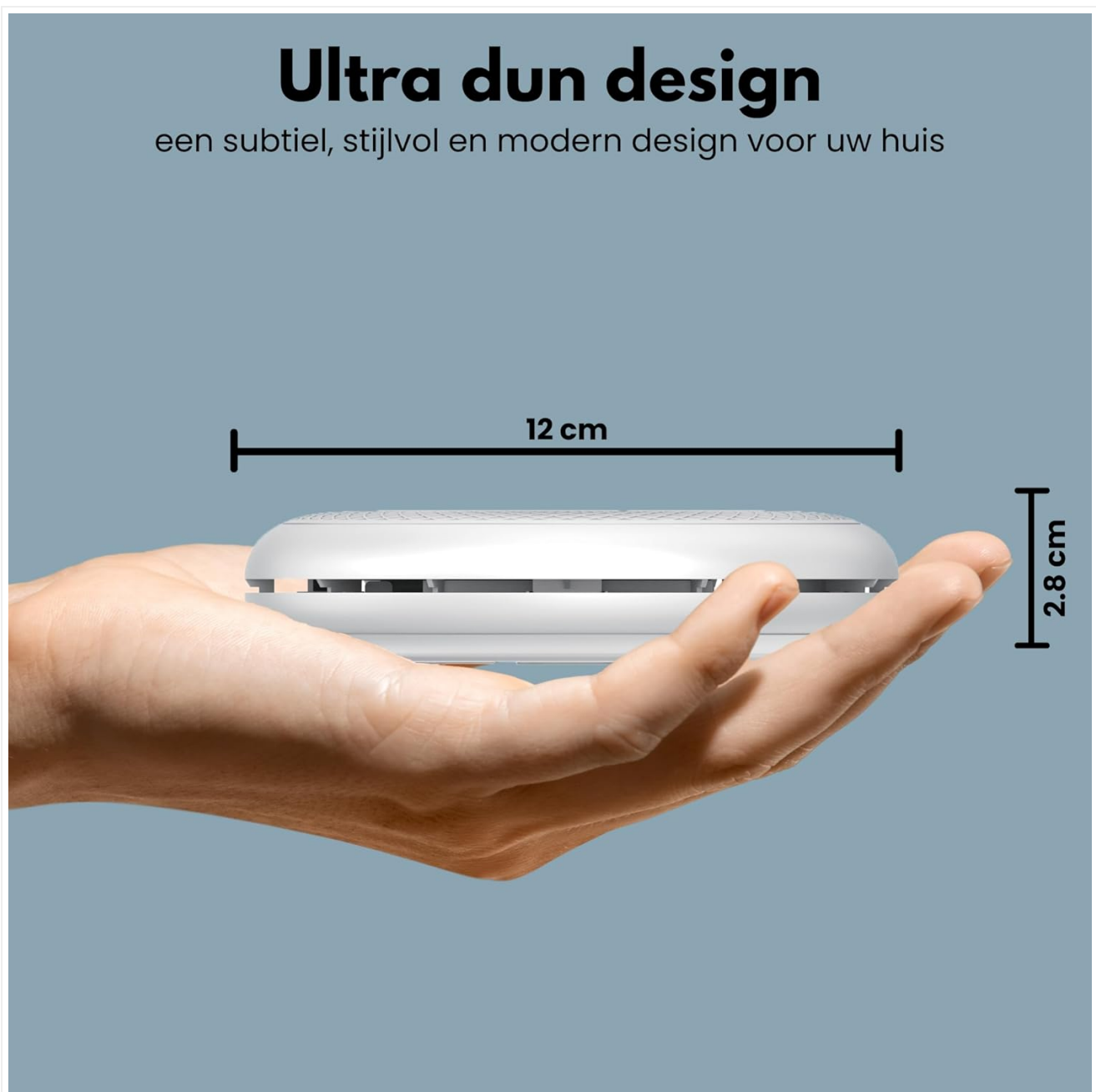


Image 4.1: The compact design of the Aroha Safety Pro Combimelder.

## 5. OPERATION

Once installed, the Aroha Safety Pro Combimelder operates continuously, monitoring for smoke and carbon monoxide.

### 5.1 Normal Operation:

During normal operation, the LED indicator will flash briefly every 55 seconds, indicating that the unit is functioning correctly.

### 5.2 Smoke Alarm:

If smoke is detected, the alarm will sound with a loud, intermittent siren (three long beeps, pause, three long beeps) and the red LED will flash rapidly. This indicates a potential fire hazard.



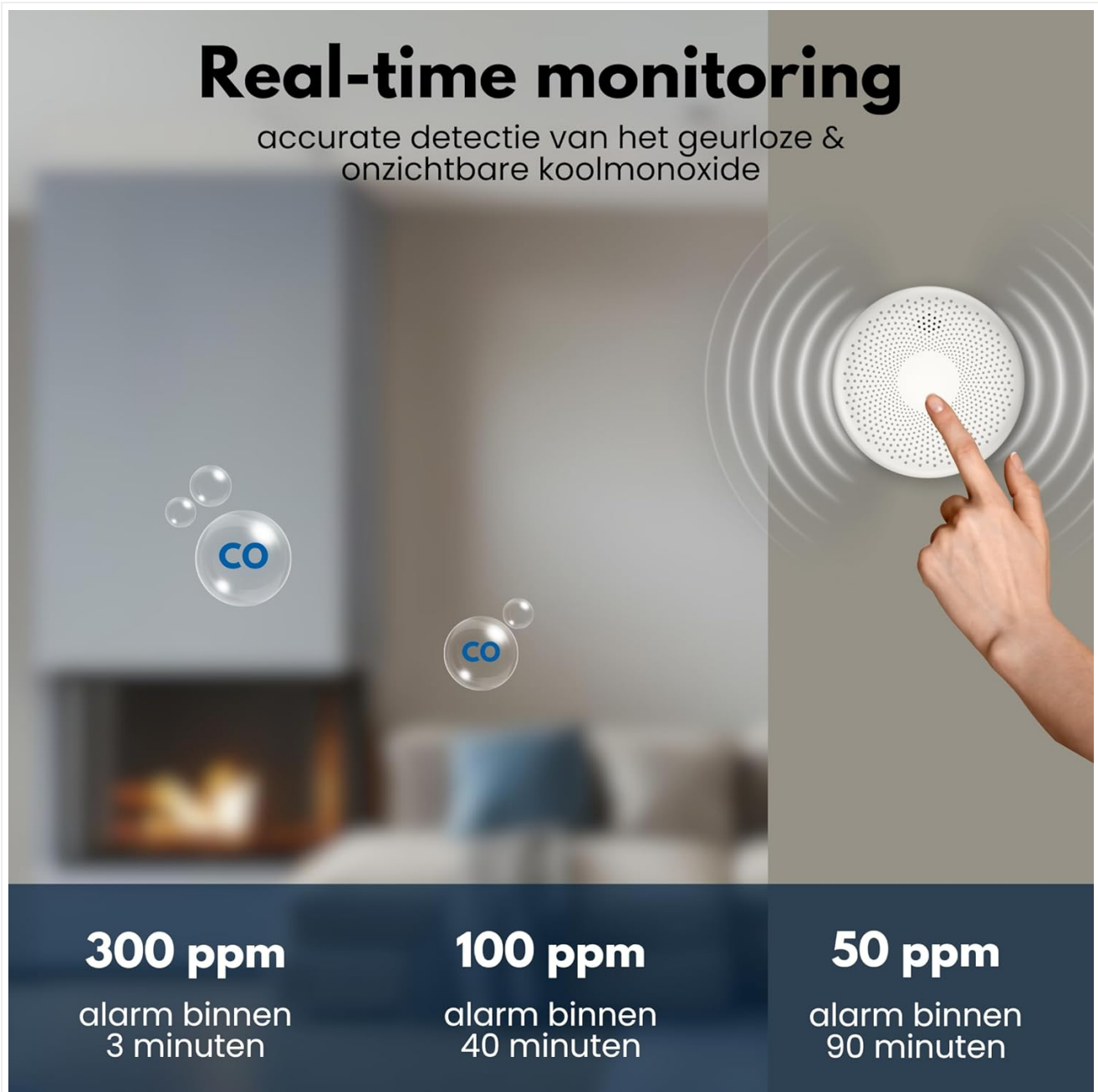
Image 5.1: Photoelectric sensor reacts to smoke within 10 seconds.

### 5.3 Carbon Monoxide (CO) Alarm:

If dangerous levels of carbon monoxide are detected, the alarm will sound with a loud, intermittent siren (four short beeps, pause, four short beeps) and the red LED will flash rapidly. This indicates a potential CO poisoning hazard.

The detector provides early warnings for various CO concentrations:

- **300 ppm:** Alarm within 3 minutes.
- **100 ppm:** Alarm within 40 minutes.
- **50 ppm:** Alarm within 90 minutes.



The advertisement features a central image of a hand pointing at a circular CO detector on a wall. The detector has a glowing center and concentric circles around it. To the left, a living room is shown with a fireplace and a sofa, with several bubbles containing the letters 'CO' floating in the air. The background is split into a blurred living room on the left and a solid grey background on the right where the detector is located.

# Real-time monitoring

accurate detectie van het geurloze & onzichtbare koolmonoxide

CO Concentration	Alarm Time
300 ppm	alarm binnen 3 minuten
100 ppm	alarm binnen 40 minuten
50 ppm	alarm binnen 90 minuten

Image 5.2: Real-time monitoring for carbon monoxide.

#### 5.4 Silencing the Alarm:

To silence a nuisance alarm (e.g., from cooking smoke), press the large test/mute button on the front of the detector. The alarm will temporarily silence for approximately 10 minutes. If the smoke or CO concentration remains high, the alarm will reactivate after the mute period. Do not silence an alarm unless you are certain it is a false alarm.

# Test- & muteknop

gemakkelijk in te drukken vanaf de vloer  
met een bezem of stok



Image 5.3: Test and mute button, easily accessible with a broomstick.

## 6. TESTING

It is crucial to test your Aroha Safety Pro Combimelder regularly to ensure it is functioning correctly. Test the detector weekly or at least once a month.

### 6.1 Performing a Test:

1. Press and hold the large test/mute button on the front of the detector for at least 3 seconds.
2. The alarm will sound with a series of beeps (smoke and CO alarm patterns) and the red LED will flash.
3. Release the button. The alarm should stop.
4. If the alarm does not sound or the LED does not flash during the test, refer to the 'Troubleshooting' section.

## 7. MAINTENANCE

Minimal maintenance is required for the Aroha Safety Pro Combimelder due to its 10-year sealed battery and intelligent self-test function.

## 7.1 Cleaning:

- Dust and debris can accumulate on the detector and affect its performance.
- Gently vacuum the exterior of the detector using a soft brush attachment at least once a month.
- Do not use cleaning solvents or detergents on the detector.

## 7.2 End of Life Indication:

After approximately 10 years of operation, the detector will emit a short beep every 40 seconds, indicating that it has reached the end of its service life and needs to be replaced. The battery cannot be replaced.

## 8. TROUBLESHOOTING

If your Aroha Safety Pro Combimelder is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Detector does not activate after installation.	Not properly twisted onto the mounting bracket.	Ensure the detector is fully twisted clockwise onto the mounting bracket until it clicks.
Alarm sounds intermittently (e.g., every 40 seconds).	End of service life.	Replace the detector immediately.
Alarm sounds during normal operation (not a test).	Presence of smoke or CO.	Evacuate immediately and call emergency services. If it's a nuisance alarm (e.g., cooking), press the mute button.
Test button does not trigger alarm.	Unit malfunction or end of life.	Ensure the button is pressed firmly for at least 3 seconds. If still unresponsive, replace the detector.
False alarms.	Dust, steam, cooking fumes, or improper placement.	Clean the detector. Relocate if frequently exposed to steam or fumes. Ensure proper ventilation during cooking.

## 9. SPECIFICATIONS

Specification	Detail
Model Number	CS11
Brand	Aroha Electronics
Power Source	10-Year Sealed Lithium-metal Battery (non-replaceable)
Smoke Sensor Type	Photoelectric
CO Sensor Type	Electrochemical
Alarm Loudness	85 dB

Specification	Detail
Operating Temperature	Up to 55 °C
Installation Method	Screws (mounting bracket included)
Dimensions (Diameter)	12 cm
Weight	144 Grams
Certifications	CE, EN14604, EN50291
Included Components	Detector, Mounting Bracket, Screws and Plugs, User Manual

## 10. WARRANTY AND SUPPORT

Aroha Electronics stands behind the quality of its products. For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Aroha Electronics website. Keep your proof of purchase for warranty claims.

For further assistance, you may contact Aroha Electronics directly via their Amazon store page: [Aroha Store on Amazon.nl](#).