

EMOS TSS910A

EMOS TSS910A Photoelectric Smoke Detector User Manual

Model: TSS910A

1. INTRODUCTION

Thank you for choosing the EMOS TSS910A Photoelectric Smoke Detector. This manual provides essential information for the safe and effective installation, operation, and maintenance of your smoke detector. Please read these instructions carefully before use and retain them for future reference.

The EMOS TSS910A is designed to provide early warning of fire by detecting smoke particles. It features a photoelectric sensor, an 85 dB acoustic alarm, and an optical LED warning light, ensuring reliable detection and alerting. With its 10-year lifespan and included 9V battery, it offers long-term safety for your home or office.

2. SAFETY INFORMATION

- This smoke detector is intended for indoor use only.
- Do not paint the smoke detector. Paint can clog the sensing chambers and prevent the alarm from functioning correctly.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.
- Regularly test the smoke detector as described in the operating instructions.
- Never ignore a smoke alarm. Investigate the cause and take appropriate action immediately.
- Keep out of reach of children unless installed securely.
- Dispose of batteries and the device according to local regulations.

3. PACKAGE CONTENTS

Ensure all items are present in the package:

- 1 x EMOS TSS910A Smoke Detector
- 1 x 9V Battery (Alkaline)
- Mounting Screws and Wall Plugs

- User Manual (this document)

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your EMOS TSS910A smoke detector:



This image displays the EMOS TSS910A smoke detector from the front and side, highlighting key features. The front view shows the acoustic alarm vents, the optical alarm LED, and the central test button. An inset image shows the battery compartment. Dimensions are also provided: 101 mm diameter and 36 mm height.

- **Test Button:** Press to test the alarm function.
- **Optical LED:** Flashes periodically during normal operation and rapidly during an alarm.
- **Acoustic Alarm:** Emits an 85 dB sound during an alarm.
- **Battery Compartment:** Located on the rear for the 9V battery.
- **Mounting Plate:** Detachable plate for ceiling or wall installation.

5. SETUP AND INSTALLATION

5.1 Choosing a Location

For optimal protection, install smoke detectors in every sleeping area and on every level of your home, including the basement. Consider these guidelines:

- Install on the ceiling in the center of a room or hallway.
- If wall-mounted, the top of the alarm should be 10-30 cm (4-12 inches) below the ceiling.
- Keep away from corners (at least 50 cm / 20 inches from walls).
- Avoid installing near windows, doors, or air vents where drafts could interfere with smoke detection.
- Do not install in kitchens, bathrooms, or garages where cooking fumes, steam, or exhaust fumes could cause false alarms.



This image shows the EMOS TSS910A smoke detector mounted on a ceiling, demonstrating a typical installation scenario in a residential setting. The detector is centrally placed on the ceiling, blending with the room's decor.

5.2 Battery Installation

1. Twist the smoke detector counter-clockwise to detach it from the mounting plate.
2. Locate the battery compartment on the back of the detector.
3. Connect the included 9V alkaline battery to the battery clip, ensuring correct polarity (+ to + and - to -).
4. Place the battery into the compartment.
5. Reattach the smoke detector to the mounting plate by aligning the marks and twisting clockwise until it clicks into place.



This image illustrates the open battery compartment of the EMOS TSS910A smoke detector, clearly showing the terminals for the 9V battery. This visual aid helps users correctly install the battery.

5.3 Mounting the Detector

1. Once the battery is installed, hold the mounting plate against the chosen ceiling or wall location.

2. Mark the positions for the two screw holes.
3. Drill two holes at the marked positions. Insert the wall plugs if necessary.
4. Secure the mounting plate with the provided screws.
5. Attach the smoke detector to the secured mounting plate by aligning the marks and twisting clockwise until it locks firmly.
6. After mounting, press the test button to ensure the alarm functions correctly.

6. OPERATING INSTRUCTIONS

6.1 Normal Operation

Once installed with a fresh battery, the smoke detector is active. The optical LED will flash approximately once every 40-60 seconds to indicate normal operation.

6.2 Testing the Alarm

It is crucial to test your smoke detector weekly to ensure it is functioning correctly. To test:

- Press and hold the large central **Test Button** on the front of the detector for a few seconds.
- The alarm will sound loudly (85 dB), and the LED will flash rapidly.
- Release the button. The alarm should stop.
- If the alarm does not sound, refer to the Troubleshooting section.

6.3 Alarm Indication

- **Smoke Alarm:** When smoke is detected, the alarm will sound continuously (85 dB), and the red LED will flash rapidly.
- **Low Battery Warning:** The detector will chirp approximately once every 30-40 seconds, and the LED will flash simultaneously, indicating that the battery needs to be replaced. This warning will continue for about 30 days.

7. MAINTENANCE

7.1 Battery Replacement

When the low battery warning sounds (a chirp every 30-40 seconds), replace the 9V battery immediately. Use only alkaline 9V batteries. To replace:

1. Twist the smoke detector counter-clockwise to remove it from the mounting plate.
2. Disconnect the old 9V battery from the clip and remove it.
3. Connect a new 9V alkaline battery, ensuring correct polarity.
4. Place the new battery into the compartment.
5. Reattach the smoke detector to the mounting plate by aligning the marks and twisting clockwise until it clicks into place.
6. Test the alarm using the test button after battery replacement.

7.2 Cleaning Your Smoke Detector

Dust and debris can accumulate on the smoke detector and affect its performance. Clean your detector at least once a month:

- Gently vacuum the exterior of the smoke detector using a soft brush attachment.
- Wipe the cover with a slightly damp cloth. Do not use cleaning agents or solvents.
- Never paint the smoke detector.

7.3 Lifespan

The EMOS TSS910A smoke detector has a 10-year operational lifespan. After 10 years from the manufacturing date (usually printed on the device), the entire unit should be replaced, even if it appears to be working correctly.



This image emphasizes the 10-year safety feature of the EMOS TSS910A smoke detector, shown installed on a ceiling. The long lifespan of the sensor and the low battery warning ensure continuous operation and safety.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Alarm does not sound during test.	Dead or incorrectly installed battery.	Check battery polarity. Replace with a new 9V alkaline battery.
Detector chirps every 30-40 seconds.	Low battery warning.	Replace the 9V battery immediately.
False alarms occur frequently.	Improper location (e.g., near kitchen, bathroom, or dusty area). Dust accumulation.	Relocate the detector to a more suitable area. Clean the detector as per maintenance instructions.
LED does not flash during normal operation.	Dead battery or unit malfunction.	Replace battery. If problem persists, the unit may need replacement.

9. SPECIFICATIONS

Feature	Detail
Model Number	TSS910A
Sensor Type	Photoelectric
Alarm Volume	85 dB
Power Source	1 x 9V Alkaline Battery (included)
Operating Voltage	9V
Lifespan	10 years
Dimensions (D x H)	10.1 x 3.6 cm (4 x 1.4 inches)
Weight	190 g (0.42 lbs)
Material	Plastic
Color	White
Operating Humidity	5% to 95% RH (non-condensing)

10. WARRANTY AND SUPPORT

EMOS products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official EMOS website. Please retain your proof of purchase for warranty claims.