

Smoke Detector m-RM250

User manual



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User Manual

m-RM250 - Smoke detector with VdS approval

Scope of supply

- Smoke detector with VdS approval
- Installation kit (one per smoke detector)
- Instructions



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Specifications

Product:	Smoke detector with VdS approval
Battery operation:	Built-in 3 V lithium battery (CR123A)
Current consumption:	Standby < 8 μ A, Alarm < 50 mA
Alarm volume:	\geq 85 dB within a range of 3 metres
Muting:	Approx. 10 min per press of the button
Warning signal:	Indicates weak battery
Certified:	EN 14604:2005/AC-2008, VdS G2 14063
Anti-theft device:	Locking pin

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General information

Please read through the entire operating instructions before putting the smoke detector into operation. 

This latest generation of smoke detector has an integral microprocessor and automatic contamination compensation; this guarantees consistent functional reliability of the smoke chamber for a period of 10 years.

It is not capable of detecting heat, gas or fire. If installed correctly, the smoke detector provides sufficient warning. In the event of a fire, this provides enough time to leave the house and notify the fire service. The alarm device is intended to detect smoke; it is not capable of preventing a fire.

IMPORTANT INFORMATION

Smoke detectors warn of smoke and not heat, gas or fire. 

Only test the smoke detector using the „Test“ button, or use a commercially available test spray. Do NOT under any circumstances intentionally attempt to generate smoke by any other means, as this could put you in a life-threatening situation or damage the smoke detector sensors.

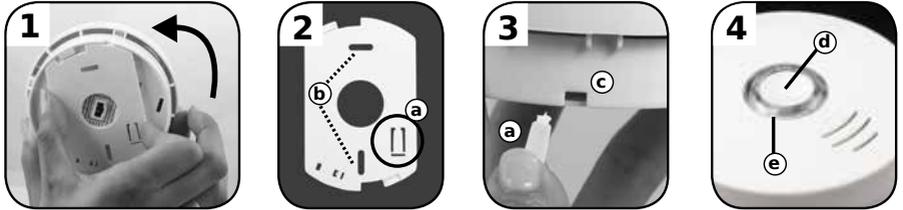
Cigarette smoke will not trigger an alarm unless large quantities are blown directly into the smoke detector sensor.

Do not paint the smoke detector and do not cover any of the openings.

Installation and putting into operation

The smoke detector must be activated before it is installed. To activate the smoke detector, hold down the „Test“ button (4d) for at least 3 seconds until the LED (4e) illuminates. Release it within 2 seconds. The smoke detector will emit a beep to indicate that the detector has been activated and is in operating mode. 

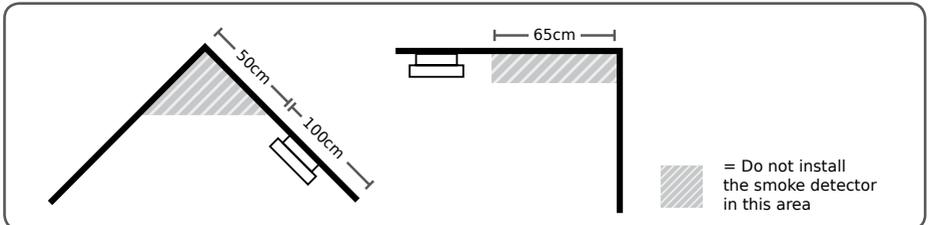
The LED will illuminate briefly approx. every 40 seconds, indicating the measurement cycle. If the LED flashes quickly, smoke has been detected and an alarm will be triggered.



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Assembly

Rotate the mounting plate counterclockwise (1) and remove the plate (2) from the housing (note: the mounting plate fits into the housing in one direction only). Use a screwdriver to remove the anti-theft device (2a) (locking pin). Hold the mounting plate where you want to install the detector and mark the fastening holes (b). Use a 5-mm drill bit to drill the holes, knock in the dowels and screw the mounting plate tight. Place the smoke detector on the mounting plate and rotate the detector clockwise until it locks into place. Now push the anti-theft device (3a) into the opening (3c).



Installation location

- Smoke detectors must be installed on the ceiling at least 65 cm from the nearest corner or wall.
- Smoke detectors must be placed at least 30 cm from electronic junction boxes and at least 150 cm from fluorescent lamps.
- Install at least 2 smoke detectors - one per floor - and one per room for extra protection. Install the smoke detector on the ceiling in the centre of the room.
- Preferably place the smoke alarm system directly next to the bedroom. Try to keep the emergency escape routes from the bedrooms clear as these rooms are usually the furthest from the exit. If there is more than one sleeping area, install additional systems in each sleeping space.
- Install alarm systems to protect stairwells, as these can act as vents, helping smoke and fire to spread. Smoke and other combustion residues rise to the ceiling and spread horizontally. Preferably install smoke detectors along the emergency escape route for additional safety.

Unsuitable installation locations

- Do not install smoke detectors in an area where there are likely to be drafts, e.g. near air-conditioning or ventilation systems.
- Do not install smoke detectors in the apex of roofs, as smoke-free air may gather there during a fire.
- Ensure that smoke detectors are easily accessible for test and maintenance purposes.
- Do not install them in rooms with high air humidity (shower rooms, bathrooms, kitchens or utility rooms), in rooms with high temperature fluctuations ($> +50^{\circ}$ or $< +0^{\circ}\text{C}$) or in rooms in which the detectors may become contaminated by vehicle emissions, dust and dirt (garages, boiler rooms, etc.). Use a heat detector here if necessary.
- Do not install smoke detectors on the ceilings of mobile homes, caravans or similar spaces. In mobile homes and caravans, the smoke detector should be installed on internal panels (walls) in order to avoid a thermal barrier, which can build up under ceilings. The sun's rays heat the ceiling and the air in the upper part of the space. Hot air under the ceiling can prevent the smoke of a dangerous, smouldering fire from reaching the smoke detector; therefore place your smoke detector on the wall of the mobile home, caravan or similar space.

Basic principles of an escape plan

Draw up a floor plan which includes all doors and windows, and at least two escape routes from each room. Windows on the first floor may require a rope or ladder. Hold a family meeting to discuss the escape plan and tell everyone what they need to do in the event of a fire. Specify a location outside of your house as a meeting point in the event of a fire. Familiarise everyone in your household with the noise of the smoke alarm system and ask that they all leave the house if they hear this noise. Identify children's bedrooms with a red sticker in the top left corner of the window pane. These stickers are available from your local fire service.

Hold a fire drill every 6 months as a minimum. Such drills help you test your escape plan before you need to use it in an emergency. It may be that you cannot reach your children on time. It is therefore important that your children know what to do.

What to do when an alarm sounds

Leave the house as specified in your escape plan. Every second counts, so do not waste any time getting dressed or taking objects of value. When leaving the building, do not open any door without first checking its surface. If it is hot, or if you see smoke coming in under the door, do not open it!

Use an alternative escape route instead. If the surface of the door is cool, press your shoulder against it and open the door slightly. Be prepared to shut it again if you encounter heat or smoke. Keep close to the floor if there is smoke in the room. Breathe through a damp cloth if possible. As soon as you are outside, go immediately to your agreed assembly point. Check that everyone is present. A list of individuals will help.



When you are outside, call the fire service using your mobile phone or a neighbour's telephone. Do not go back into the house until the fire service gives you permission.

False alarm

The smoke alarm system should keep false alarms to a minimum.

Muting the alarm (mute mode)

If a false alarm is triggered (e.g. by kitchen vapours), press the „Test“ button (4d) on the smoke detector to mute the alarm signal for approx. 10 minutes. The red LED (4e) will flash once every 8 seconds to indicate that the smoke detector alarm is in mute mode. Smoke detectors are designed to minimise the number of false alarms.

Combustion particles caused by cooking may trigger the alarm if the smoke alarm detector is installed near the cooking area. Large quantities of flammable particles are released by spillages or grilling/frying. An extractor fan with an exhaust device (not a recirculation model) is an effective means of removing combustion particles from the kitchen air.

The alarm Stop function (4d) („Test“ button) is useful in kitchens or other areas susceptible to false alarms. The mute function should only be used if the reason for the false alarm being triggered, e.g. cooking vapours, is known.

Pressing the alarm Stop button (mute mode) on the cover of the smoke detector will deactivate it. Muting the alarm indicates that the smoke alarm detector is temporarily deactivated.

The smoke detector will be automatically reactivated after approx. 10 minutes. If smoke particles are still present after this period has elapsed, the alarm will sound again.

The alarm can be muted again until the air is clear and the reason for the false alarm being triggered has been removed.

ATTENTION: Before activating the alarm Stop function, determine the cause of the smoke emissions and ensure that there is no further danger.

DANGER: If the alarm sounds (and it is not being tested), this means that the device has detected smoke. **WHEN THE ALARM SOUNDS, YOU MUST GIVE IT YOUR IMMEDIATE ATTENTION AND TAKE APPROPRIATE ACTION.**

Combustion particles, which may also be caused by cooking, may trigger an alarm if the device is located near a cooker. It is common for large quantities of combustion particles and smoke to be generated during cooking. If the system issues an alarm, first check whether there is actually a fire. If you do discover a fire, call the fire service. If there is no fire, check whether one of the causes mentioned above could have triggered the alarm.

Warning

If there is any uncertainty surrounding the cause of an alarm, it is first necessary

to rule out that the alarm has actually been triggered by a fire. In the event of a fire, evacuate the building immediately.

Test

Press the „Test“ button (4d) to check the smoke detector. The alarm signal will sound 3 times at intervals of 1.5 seconds.

Only test the smoke detector using the „Test“ button (4d), or use a commercially available test spray. Do NOT under any circumstances intentionally attempt to generate smoke by any other means, as this would put you in a life-threatening situation or damage the smoke detector sensors.

Maintenance and cleaning

In addition to weekly tests, it is necessary to clean the smoke detector on a regular basis to remove dust, dirt and deposits. Clean the smoke detector at least once a month.

Use a vacuum cleaner with a soft brush. Vacuum all sides and the cover of the smoke detector.

This smoke detector is fitted with a battery monitoring system. When the battery is low, the detector will emit a beep approx. every 40 seconds and the red LED will flash simultaneously for a period of at least 30 days.

If the battery is defective or another fault occurs, please refer to the “Troubleshooting” section for a solution. If a fault occurs during the warranty period, please contact your distributor.

WARNING: The battery is sealed within the detector. It is not replaceable. Please exchange the smoke detector for a new detector when you hear the beep indicating a low battery.

IMPORTANT: Never open the cover to clean inside the smoke detector. This will invalidate your warranty.

Do not use any cleaning products which contain carbonic acid, benzene, alcohol or similar substances. Such substances attack the surface of the device and their vapours are hazardous to health and explosive. Do not use any sharp-edged tools, screwdrivers, wire brushes or similar to clean the device.

Useful safety precautions

In certain situations, a smoke alarm system may prove ineffective.

For example:

- When smoking in bed
- When children are left at home unsupervised
- When cleaning with flammable liquids (benzene)

Protection against fire is specified in standard NPFA 74.

Safety information

- Ensure that all electrical connections and cable connections to other devices comply with the relevant guidelines and the manual.
- Ensure that sockets and extension cables are not overloaded, as this can cause fires and an electric shock.
- If you are in any doubt about the operation, safety or connection of any devices, please contact a specialist.
- Keep all components out of the reach of children.
- Please do not store in damp, very cold or very hot environments, as this can damage the electronic circuits.
- Avoid hard impacts, as they can damage the electronic circuits.
- The device must only be opened and repaired by authorised specialists.
- Wireless systems may be exposed to interference by wireless telephones, microwaves and other electronic devices which function in the 433 MHz range. Maintain a MINIMUM DISTANCE OF AT LEAST 3 METRES during installation and operation.

Protecting the environment



At the end of its service life, this product must not be disposed of with the normal domestic waste. It must be taken to an assembly point for the recycling of electrical and electronic devices.

This is indicated by the symbol on the product, the instruction manual or packaging. The materials and substances can be recycled according to their marking.

The reutilisation of recycled substances or other forms or recycling of old devices significantly helps the environment. Please contact your local authority for information regarding the relevant disposal points. Always dispose of empty batteries at municipal or known collection points.

Troubleshooting

Problem	Countermeasure
Smoke detector does not emit a sound when tested.	<ol style="list-style-type: none">1. The smoke alarm detector must be activated before it is installed.2. Clean the smoke detector. Read the section entitled "Maintenance and cleaning".3. If a fault occurs during the warranty period, please contact your distributor.4. If the warranty period has expired, please replace the old detector with a new one.
The smoke detector beeps and the red LED flashes every 10 seconds.	The battery is low. Please replace the smoke detector.
The smoke detector beeps every 40 seconds (the alarm has switched to error mode).	Clean the smoke detector. Read the section entitled "Maintenance and cleaning". If the problem continues, please purchase a new smoke detector to replace the faulty one.
The smoke detector has irregular false alarms or it emits an alarm signal when residents are cooking, showering, etc.	<ol style="list-style-type: none">1. Press the „Test“ button to interrupt the smoke detector.2. Clean the smoke detector. Read the section entitled "Maintenance and cleaning".3. Install the smoke detector in another location and press the „Test“ button.
The alarm sounds different to usual. It starts and then stops again.	<ol style="list-style-type: none">1. Clean the smoke detector. Read the section entitled "Maintenance and cleaning".2. If a fault occurs during the warranty period, please return the smoke detector to your distributor.3. If the warranty period has expired, please replace the old smoke detector with a new one.



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