

Smoke detector and User Manual

Model number: **PWRM-3170**

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Thank you for purchasing our smoke detector. Please take a few minutes to read the user's manual thoroughly and familiarize yourself and your family with its operation. And save it for future reference.



EN 14604-2:2005/AC-2:2008

Product Specifications:

- POWER:** built-in Li-ion battery (CR123A) Lithium battery (battery not replaceable)
- OPERATION/CURRENT:** 85mA (standby) - 50mA (alarm)
- ALARM VOLUME:** > $85\text{dB(A)$ at 3 meters
- ALARMS SENSITIVITY:** 0.1 - 0.16 dB/m
- SILENCE TIME:** approx. 10 minutes
- SMOKE ALARM DEVICE SOUND PATTERN:** beep 0.5s - pause 0.5s - beep 0.5s - pause 0.5s - beep 0.5s - pause 1.5s, with the red LED flash, repeat this alarm pattern.
- COMPLY WITH:** EN 14604-2:2005/AC-2:2008

Description
The unit is a photoelectric smoke detector. The photoelectric technology allows more sensitivity to detect slow smolder fires which generate thick, black smoke, a little heat and may smolder for hours before bursting into flames. The smoke detector does not contain radioactive material which is harmless to the natural environment. The smoke detector should be installed in all living areas and bedrooms (except the bathroom and kitchen).
Make sure all present people are able to hear the alarm and can react to it.
For minimum protection you should mount smoke detectors in escape routes and the doors of all living areas and bedrooms.
For maximum protection you should mount smoke detectors in escape routes and all living and bedrooms.

Recommended protection for a single storey dwelling:
Install a smoke detector on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area hallway is more than 30 feet long, install a smoke detector at each end. If there is a basement: install a smoke detector on the basement ceiling at the bottom of the stairwell.
Install a smoke detector for a multi-storey dwelling.
Install a smoke detector on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area hallway is more than 30 feet long, install a smoke detector at each end and install a smoke detector at the top of a first- or second floor stairwell.

Important Safety Information:

- The test button accurately tests smoke alarm device functions. Do not use any other test method. Test smoke alarm device weekly to ensure proper operation.
- If you're sure it isn't a real fire alarm, open windows or fans the air around smoke alarm in order to silence it.
- This smoke alarm device should be installed only by a licensed, qualified electrician. Observe and follow all local and national electrical and building codes for installation.
- This smoke alarm device is designed to be used inside a single family unit. In multifamily buildings, each individual living unit should have its own smoke alarm devices. Do not install in non-residential buildings. And this smoke alarm device is not a substitute for a complete alarm system.
- Install a smoke alarm device in every room and on every level of the home. Smoke may not reach the smoke alarm device for many reasons. For example, if a fire starts in a remote part of the home, on another level, in a chimney, wall, roof, or on the other side of a closed door, smoke may not reach the smoke alarm device in time to alert household members. A smoke alarm device will not promptly detect a fire except in the area of a room in which it is installed.
- Smoke alarm device may not alert every household member every time. The alarm horn is loud in order to alert individuals to a potential danger. However, there may be some circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, drug or alcohol usage, the hard of hearing, etc.). If you suspect that this smoke alarm device may not alert a household member, install and maintain specially smoke alarm devices. Household members must hear the alarm's warning sound and quickly respond to it to reduce the risk of damage, injury, or death that may result from fire. If a household member is hard of hearing, install special smoke alarm devices with lights or vibrating motors to alert occupants.
- Smoke alarm devices can only sound their alarms when they detect smoke or detect combustion particles in the air. They do not sense heat, flame, or gas. This smoke alarm device is designed to give audible warning of a developing fire. However, many fires are fast - burning, explosive, or intentional, and others are caused by carelessness or safety hazards. In this case, smoke may not remain the unit alarm **QUICKLY ENOUGH** to ensure safe escape.
- Smoke alarm devices have limitations. This smoke alarm device is not foolproof and is not warranted to protect lives or property from fire. Smoke alarm devices are not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is important that the smoke alarm device to fail at any time. For this reason, you must test the smoke alarm device weekly and replace unit every 10 years.

Do Not Install the smoke detector

- In the vicinity of equipment or areas where normal smoke regularly occurs (kitchens, ovens, water heaters). Please Use in these areas special smoke detectors that prevent the triggering of an unwanted alarm.
- In areas with high humidity, such as bathrooms, or in areas near dishwashers or dryers. Keep the humidity at least 3 meters away from these areas.
- In the vicinity of ventilation shafts or openings for heating and cooling systems. Keep the installation at least 1 meter away from these areas. Smoke in the air could be blown away from the smoke detector and thus can interrupt or prevent an alarm.
- In areas where temperatures drop below 0 ° C or rise above 40 ° C. Where the humidity is over 93%. These conditions reduce the battery life or cause a false alarm.
- In extremely dirty, dusty or misted by insects areas because particles have an impact on the operation of the smoke alarm and may interfere.

Operation

Testing

Test the unit to ensure proper operation by pressing the test button, this will sound the alarm if the battery is low. Pressing the test button will also cause the red LED to flash. The horn and battery are working. In an alarm sounds, there is a defective battery or other failure. **DO NOT** use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a fire.

CAUTION: Due to the loudness (85 decibels) of the alarm, Always stand an arms-length away from the unit when testing. Test the alarm weekly to ensure proper operation. Erratic or low sound coming from your alarm may indicate a defective alarm, you can refer to "Trouble shooting" section for solution. **NOTE: WEEKLY TESTING IS REQUIRED.**

LED indicators

LED-flashing once every 40 seconds: indicates that the smoke alarm device is operating properly. When the test button is pressed, or when the smoke alarm device senses particles of combustion and goes into alarm (constant pulsating sound), the red LED will flash once per second. The flashing LED and pulsating alarm will continue until the air is cleared or release test button.
Red LED Alarm siliencer (Hush mode) Indication: The red LED will flash once every 8 seconds, indicating the smoke alarm device is in alarm silence (Hush) mode.
Low battery indication: An intermittent "chirp" with red LED flashes once every 40 seconds, indicates that the smoke alarm device is low battery, you may press the test button for pause alarm for 10 hours, but it will reset automatically after 10 hours.
NOTE: When the units chirp once every 40 seconds, you can press the test button temporarily to pause this warning tone for 10 hours. It can still normally detect smoke during this period. It only removes nuisance warning tone. You can refer to "Trouble shooting" section, if there are still alarms, you **MUST** replace it with a new alarm at once or contact your retailer during warranty.

Alarm silence (silence mode)

If a false alarm is triggered, press the test button of the smoke alarm to activate the alarm for about 10 minutes in silence. The red LED will then flash once every 8 seconds to indicate that the alarm of the smoke alarm is in silent mode.

Smoke detectors are designed so that false positives are minimized. Combustion particles generated by cooking may set off the alarm when the smoke detector is placed near the cooking area. Large quantities of combustible particles are released by spill or when grilling / frying. By using an extractor hood with exhaust means (no convection type) combustion particles are effectively removed from air in the kitchen. The alarm stop function (test button) is very useful in the kitchen or in other areas that are prone to false alarms.
The mute function should only be used when the shatter button for the false alarms, such as smoke from cooking, is known.
Pressing the alarm stop button (mute mode) on the cover of the smoke alarm that is desensitized. The silencing of the alarm indicates that the smoke alarm is in a temporarily desensitized condition.

In addition, the red LED flashes once every 8 seconds
The smoke alarm will automatically reset after approximately 10 minutes. If after this period particles of smoke are still present, the alarm will sound again.
Muting the alarm (mute mode) can be operated repeatedly until the air has been cleaned and freed from trigger the alarm.
CAUTION: Before you activate the alarm-stop function, clarify the cause of the smoke and make sure that no further danger exists.
DANGER: When the alarm sounds (and is not currently under consideration), it means that the device detects smoke. **The alarm sounds requires your immediate attention and the adoption of measures.**

Maintenance and Cleaning

In addition to weekly testing, the alarm requires periodic cleaning to remove dust, dirt, and debris.
Clean the alarm at least once a month to remove dust, dirt, or debris.
Use a vacuum cleaner with the soft brush, vacuum all sides and covers of smoke alarm device.
This alarm has a low battery monitor which will cause the alarm to "chirp" approx every 40 seconds and the red LED flash once at the same time for a minimum of thirty days when the battery gets low.
If there is a defective battery or other failure, you can refer to "Trouble shooting" for solution, if there are still failures during warranty, you can return to your retailer.
WARNING: The battery is sealed in cover and not replaceable. Please replace another new alarm if the low battery chirp occurs.
IMPORTANT: Do not attempt to remove the cover to clean inside. This will affect warranty.

Repair

Caution: Do not attempt to repair the alarm. It will affect your warranty.
If the alarm is not operating properly and is still under warranty, pack it in a well-padded carton and send it back to the retailer where you acquired it.
If the alarm is no longer under warranty, have a licensed electrician replace it immediately with a compatible alarm.

Trouble shooting

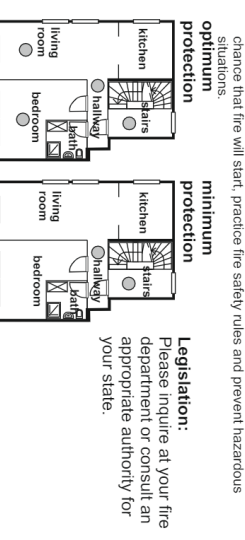
Problem	Method of disposal
Smoke alarm does not sound when it is tested.	<ol style="list-style-type: none"> The smoke detector must be activated before testing. Check the smoke detector. Please refer to the "maintenance and cleaning" section. If the smoke detector is defective during warranty, you can return it to your dealer. If the warranty period has expired, please replace the detector with a new detector.
The alarm "beep" and a red LED flashes once every 40 seconds	The battery is low, please replace the detector with a new one.
The beginning of the smoke detector occurs every 40 seconds (the alarm is in fault mode).	Clean the smoke detector. Please read the section "Maintenance and cleaning". Buy to replace a new smoke alarm to the defective if the problem persists.
It comes to irregular false alarm of the smoke detector or an alarm will sound when residents cooking, showering, etc.	<ol style="list-style-type: none"> Press the test button to the alarm interrupt. "Maintenance and cleaning". See section "Maintenance and cleaning". Mount the smoke detector at a different location and press the test button.
The alarm sounds different than usual. He starts and stops again.	<ol style="list-style-type: none"> Clean the smoke detector. Please read the section "Maintenance and cleaning". Should there be during the warranty period still get interference, you can use the smoke detector back from your dealer. If the warranty period has expired, please replace the detector with a new smoke detector.

Fire protection measures

If the alarm sounds (and you did not press the test button), the smoke alarm warns you before a dangerous situation. An immediate response is necessary, to be prepared for such events. Develop escape plans for your family. Discuss them with all members in your household and practice them regularly.

- Show the smoke detectors and test alarm to explain the different sounds meaning.
 - Determine two exits for each room and each escape route to the outside.
 - Put all roommates on notice that in case of alarm the door must be touched first. If the door is hot, then they must not be opened, and it has to be taken, an alternative escape route.
 - Instruct household members to crawl along the floor to stay below from dangerous smoke, of vapors and gases.
 - Determine for all household members a safe meeting place outside the building.
- What to Do in Case of Fire**
- Don't panic. Stay calm.
 - Leave the building as quick as possible. Touch doors to feel if they are hot before opening them. Use an alternate Exit if it is necessary. Crawl along the floor and don't stop to collect anything.
 - Meet at the pre-arranged meeting place outside the building.
 - Call the fire department from outside the building.
 - Do not go back inside a burning building. Wait for the fire department to arrive.

NOTE: These guidelines will assist you in the event of a fire. However, to reduce the chance that fire will start, practice fire safety rules and prevent hazardous situations.



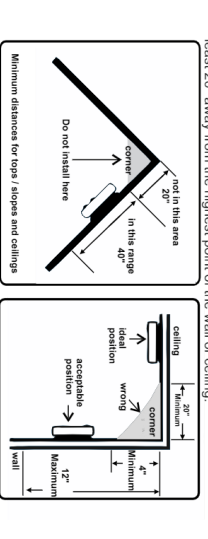
Legislation:
Please inquire at your fire department or consult an appropriate authority for your state.

Warranty Information

Company warrants the original consumer, warranty information
The company guarantees the original purchaser, when buying a new smoke alarm, that its function by normal use and maintenance is free from defects in materials and workmanship for a period of 3 years from the date of purchase.
This warranty does not cover damage, resulting from accident, misuse, abuse or lack of reasonable care of the product.
In no event shall the company be liable for incidental or consequential damages or for the violation of this or any other express or implied warranty.
The defective product can be sent to the following address with a detailed explanation of the problem.
Wurth Elektrohandel GmbH & Co. KG
PROTEC Produktmanagement
Ludwig-Ernhard-Str. 21-39, D-65760 Eschborn

Recommended installation locations

- First you need to install a smoke detector in the bedroom and on the escape route. If several bedrooms are available, you must install a detector in every bedroom.
- Install smoke detectors in the stairwell and on every floor.
- Smoke, heat and combustion products rise to the ceiling and then spread horizontally. Install the smoke detector therefore in conventional dwellings on the ceiling in the center of the room. Thus, the smoke detector detect the room. If the detector can not be installed in the middle of the ceiling, you should keep a distance of at least 20" at the corners and the wall when installing the smoke alarm.
- The smoke detector is installed on the wall, a minimum distance of 4" from the ceiling should be maintained.
- If the length of the room or hallway is more than 32ft, several smoke detectors must be installed in the hallway.
- If walls or ceilings are sloped, the smoke detector must be installed in space at least 20" away from the highest point of the wall or ceiling.



Installation

For activation press the test button and hold it for more than 3 seconds until the LED lights up. Release it within 2 seconds. The smoke alarms produces mode a "beep" sound, thereby indicating that it is activated and is in working mode.

- CAUTION:** You must first enable the smoke detector, otherwise it has no function.
- Remove the housing of the smoke alarm counter-clockwise and remove the bracket (mounting base).
 - Roll the holder in the installation position. Mark the holes for mounting the bracket with a pencil.
 - Drill two mounting holes with a drill by viewing the markings. The hole diameter should be 5mm. Beat the two plastic anchors with a hammer in the holes.
 - Remove, if necessary, the firing plug with a screwdriver from the holder.
 - See illustration below.
 - Align the bracket to the plastic anchors and tighten the screws in the wall. Insert until it is firmly seated; the smoke detector onto the bracket and turn the housing of the smoke alarm on the bracket.
 - Insert the locking pin in the gap between the bracket and the bottom cover to attach the detector, when you want. See the figure below.
 - Press the test button to test the smoke detector. The alarm sounds 3 times, - 15 seconds rest. This interval event is repeating until you release the button. If no signal is heard, this indicates a faulty detector. See "Troubleshooting" you can read about solutions.
 - If you have any questions regarding installation, you can contact your merchant.

