

Dear customer,

Thank you for purchasing this networkable wireless heat and smoke alarm.

Please read these operating instructions carefully and follow the instructions and tips listed so that you can use your heat and smoke alarm in the best possible way.

Included in kit

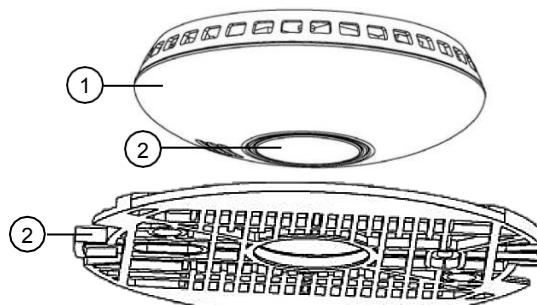
- Wireless heat and smoke alarms
- Mounting plate
- 2x dowels
- 2x screws
- 2x AA batteries
- Operating instructions

Optional accessories

Additional wireless heat and smoke alarms (ZX-2510-675) for networking
NX-5342: Magnetic attachment

Technical data

Battery	2x AA 1.5 V (Gold Peak: GP15A; Energiser: E91)
Operating current	< 4 μ A (standby), < 40 mA (alarm)
Audible alarm	>85 dB(A) at 3 m
Smoke intensity	0.122-0.189 dB/m
Heat detection range	54°C - 70°C
Radio frequency	433.92 MHz, 20 m range (indoors)
Max. transmission power	0.5 mW
Number of networkable smoke alarms	30
Standard	EN 14604:2005/AC:2008
Dimensions (ØxH)	125 x 48 mm
Weight	170 g

Product details

1. Heat and smoke alarms
2. Test button
3. Mounting plate

Unsuitable installation locations

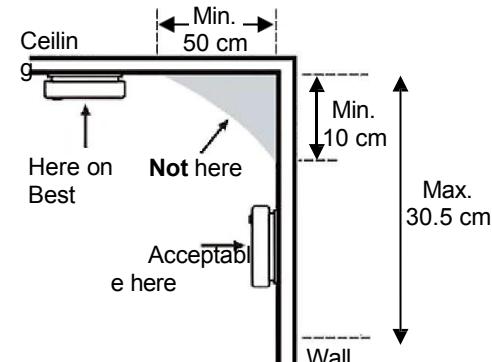
To avoid false alarms, install the device:

- Not in the vicinity of devices and areas where combustion particles are present, e.g. kitchens, garages, heating and laundry rooms, ovens, water heaters. Use suitable appliances there.
- Not in areas with high humidity such as bathrooms or near dishwashers and washing machines. Install the appliance at least 3 metres away.
- Not in the vicinity of return air, heating and cooling openings. Install the appliance at least 90 cm away. Otherwise, the draught may blow the smoke away from the appliance so that it does not trigger.
- Do not use in rooms where the temperature falls below 4.4°C or rises above 37.7°C.
- Do not use in extremely dusty or dirty areas or in areas with many insects. This could impair the alarm function of the device.
- Not in the vicinity of fluorescent and energy-saving lamps because the starter can trigger false alarms due to the electrical fields when the lamp is switched on (minimum distance: 1.5 m)
- Not in rooms higher than 6 metres.
- Not in places where regular testing is dangerous, e.g. above stairs.
- Not in the vicinity of poorly insulated walls and ceilings.

- Not in the vicinity of objects such as ceiling decorations that prevent the smoke from reaching the smoke alarm.

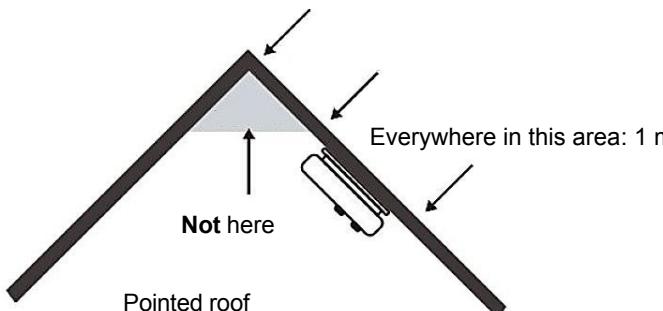
Installation locations

- For minimum protection, install a device in the corridor between the living and sleeping areas.
- For more protection, install a device in the bedroom and in the hallway. If you have several rooms, install a device on the ceiling in each one (apart from the locations listed under **Unsuitable installation locations**).
- Install a device in the stairwell and on each floor.
- Install a device on the basement ceiling at the foot of the stairs.
- If the room, corridor or stairwell is longer than 9 metres, install a device at each end or several devices.
- Smoke and heat from smoking, hot or burning objects first rise to the ceiling and then spread horizontally. Therefore, install the appliance in the centre of the ceiling in an ordinary room. Keep your distance from corners.
- If you cannot install the appliance in the centre of the ceiling, install it at least 50 cm from the wall.



- If the ceiling is sloping, install the device 50 cm away from the highest point of the ceiling.

Not here: within 50 cm below the highest point



Assembly

1. Check that there are batteries in the appliance (see chapter **Replacing batteries**).
2. Check the wireless connection to other devices (see chapter **Testing the function**).
3. Mark the distance between the elongated holes in the mounting plate at the desired position.
4. Drill two holes with a diameter of 5 mm in the markings. Take care not to damage any wires or cables.
5. Insert the two dowels and screw the mounting plate on tightly with the two screws.
6. Press the appliance onto the plate.
7. Test the function of the appliance by pressing the test button for 5 seconds. If no alarm sounds, read the **Troubleshooting** chapter or contact the manufacturer.

Establish connections

Before connecting devices, check that the batteries are inserted correctly (see chapter **Replacing batteries**). First read in the **Send mode** and **Receive mode** chapters how to set the devices to be connected to the corresponding mode before connecting the devices as described in the **Connecting devices** chapter.

Send mode

1. Press the test button on the 1st device for 12 seconds until the red LED lights up constantly and leave the button pressed for approx. 1 second. Release the button again.
2. The 1st device is now in send mode.
3. If, within 30 seconds, you press the test button on the 1st device, the LED goes out and it exits send mode. The same happens when the 1st device



NOTE:

After step 5, all devices are networked with each other. This means that the device from step 1. does not have to be in receive mode in order to be networked.

Reset connection code

1. When the appliance is in normal operation, press the test button for 16 seconds until the red LED flashes rapidly and leave the button pressed for approx. 1 second. Then release the button. The LED lights up constantly and the device switches to connection code reset mode.
2. Briefly press the test button twice while the LED is constantly lit. You will then hear a beep to indicate a successful reset.



NOTE:

does not receive a signal from a 2nd device in receive mode during this time.

4. If the 1st device receives a signal from a 2nd device in receive mode within the 30 seconds, the LED of the 1st device flashes. It then switches back to transmit mode. You can now connect additional devices to the 1st device by setting them to receive mode.
5. Press the test button to switch the send mode of the 1. device.

Receive mode

Press the test button on the 2nd device for approx. 1 second.

The red LED lights up briefly and the device switches to receive mode. In receive mode, the device automatically searches for the device in transmit mode and connects. This is indicated by rapid flashing.

Connect devices

1. Set the 1st device to send mode.
2. Set the 2nd device to receive mode.
3. If the LEDs of both devices flash for 2 seconds, the connection was successful.
4. The 1st device switches back to send mode. You can now connect additional devices to the 1st device.
5. Press the test button on the 1st device to exit send mode. The LED goes out. Wait 30 seconds.

The LED only lights up constantly for a short time. During this time, it is essential to press the test button must be pressed twice briefly for the cancellation to be successful. If the LED goes out without a beep, the process must be repeated.

3. carry out these steps for all smoke detectors.

Function test of all networked devices

To check the alarm of all networked devices, press the test button for up to 45 seconds. Each device receives the signal from the transmitter after 45 seconds at the latest.

Test function



ATTENTION!

Do not test the function with an open flame! This can damage the appliance or cause a fire. If the appliance emits alarm sounds without you testing it, smoke or heat has been detected. React immediately!

Check the function of the appliance every week and when you return from holiday or have not been home for several days by pressing the test button for at least 5 seconds. You will hear the alarm tones. This is repeated until you press the test button again. You can also test the wireless connection to other detectors in this way. These are triggered when you test the function of the device.

LED display and acoustic signals

LED/ acoustic signals	Meaning
The LED flashes once every 40 seconds	Device works normally.
The device emits a rapid sequence of 3 short alarm tones. There is then a pause of 1.5 seconds before the alarm pattern is repeated. The LED flashes.	Smoke alarm
The device emits a very short alarm tone, followed by a very short pause. The alarm pattern is then repeated. The LED flashes	Heat alarm
The device beeps once every 40 seconds and the LED flashes once every 40 seconds.	Device error/ Battery error/ battery is almost empty

The LED flashes once every 8 seconds.	Silence mode
The device emits an alarm and the LED flashes. The devices connected to it also emit an alarm off and their LEDs flash.	The networked detectors were connected via radio with triggered.

**NOTE:**

If the device beeps every 40 seconds, you can pause the signal for 8 hours by pressing the test button. The appliance will continue to automatically detect smoke and temperature during this time.

Silence mode**ATTENTION!**

Make sure that you are in a safe situation before activating silent mode.

During an unwanted alarm, you can switch off the device for Switch off for 10 minutes. To do this, press the test button during the alarm. The LED now flashes once every 8 seconds. The device is in silent mode. It then switches on again automatically. If the temperature is still within the detection range of 54°C - 70°C or if there is still smoke in the air, the alarm will sound again. You can reactivate silent mode.

Replace batteries**ATTENTION!**

Do not remove the batteries to switch off an unwanted alarm. The device will then no longer be able to alert you. In the event of an unintentional alarm, disperse the air or open a window to remove smoke or dust.

1. Remove the device from the mounting plate.
2. Remove the old batteries from the battery compartment.
3. Insert two new batteries. To do this, press the two red latches down and place the batteries over them. Pay attention to the polarity indicated on the battery compartment.
4. Press the device back onto the mounting plate.
5. After each battery change, check the function of the device by pressing the test button. The alarm will sound. If there is no sound, check the correct position of the batteries and replace the device if necessary (see chapter Troubleshooting).

**NOTE:**

When the alarm is triggered, the device transmits a radio signal, which can also trigger the connected devices. Release the test button and the alarm will stop in 1 minute.

Cleaning and maintenance

In addition to the weekly function test, you must clean the appliance at least once a month to remove dust, dirt and foreign objects. To do this, use a hoover with a soft brush attachment. Use it to clean the appliance from all sides. Then check that all openings are free of foreign objects. Do not use water, cleaning agents or solvents as they can damage the appliance. If the appliance is very dirty and cannot be cleaned as described, replace it. Then press the test button for at least 5 seconds to check the function.

**ATTENTION!**

Do not open the appliance to clean the inside!

Practising fire protection

If the device emits an alarm without you having pressed the test button first, it is warning you of a dangerous situation. Your quick reaction is required. To be prepared for such a situation, proceed as follows:

1. Trigger the alarm in the presence of all household members to familiarise them with the noise. Explain its meaning.
2. Determine two exits with escape routes from the building for each room.
3. Instruct all household members to touch the doors and choose an alternative exit if they are hot. Make it clear that they must not open a hot door under any circumstances.
4. Teach household members to crawl across the floor to stay below dangerous fumes and gases.
5. Determine a safe meeting point outside the building where all household members should meet in the event of a fire.

What to do in the event of a fire

1. Do not panic. Stay calm.
2. Leave the building as quickly as possible. Before you open a door, feel whether it is hot. If necessary, use another exit. Crawl across the floor to stay below dangerous smoke and gases. Do not stop to take objects with you.
3. Gather at a predetermined meeting point.
4. Call the fire brigade from outside the building.
5. Do not go back into the burning building.
6. These guidelines will help you in the event of a fire. To minimise the possibility of a fire, follow the fire safety regulations and avoid dangerous situations.

Problem solution

- Problem:** The device does not trigger an alarm when you test it.
Solution: Remove the device from the mounting plate and check that the battery is inserted correctly.
- Problem:** The device beeps approx. every 40 seconds and the red LED flashes every 40 seconds.
Solution: The battery is flat. Replace the battery.
- Problem:** The appliance triggers an alarm at irregular intervals or when cooking/showering.
Solution: Clean the device or install it in another location.
- Problem:** The appliance sounds unusual. The sound sounds and stops.
Solution: Clean the appliance.

**ATTENTION!**

If the appliance does not function properly, please contact the manufacturer.

Safety instructions

- These operating instructions are intended to familiarise you with the operation of this product. Please keep these instructions in a safe place so that you can access them at any time.
- Converting or modifying the product impairs product safety. Caution: Risk of injury!

- All modifications and repairs to the device or accessories may only be carried out by the manufacturer or by persons expressly authorised by the manufacturer.
- Handle the product with care. It can be damaged by knocks, blows or falls from even a small height.
- Keep the product away from moisture.
- Never immerse the product in water or other liquids.
- Only check the function of the device using the test button. Do not use any other test method.
- Do not remove or disconnect the battery from the device.
- The device may only be installed by a qualified person. Observe all local and national regulations for the installation of heat and smoke alarms.
- The device is only suitable for use in a home designed for one family. In apartment blocks, each residential unit should be individually equipped with heat and smoke alarms.
- Only install the appliance in residential buildings.
- The device is not a replacement for a complete alarm system.
- Smoke cannot reach the appliance for various reasons, e.g. if a fire breaks out in a remote part of the building, on another floor, in a chimney, wall or roof, or on the other side of a closed door. Smoke cannot reach the device in time to alert all household members. The device will not immediately detect a fire unless it is in the area or room in which it is installed.
- The device cannot always warn all household members. Noise outdoors or indoors, deep sleep, drug or alcohol consumption, hearing loss, etc. may prevent the alarm from being heard. If you suspect that this device cannot warn a household member, install another device that is customised to the specific needs of this person.

- The device can only detect smoke, combustion particles and heat. It does not detect flames or gas. Please note that many fires burn quickly, are explosive, are started deliberately or negligently and by safety hazards. Under these circumstances, it is possible that the device may not be triggered in time to allow a safe escape.
- The device does not guarantee the protection of life and property against fire. It is not a substitute for insurance. There is a possibility of malfunction. Therefore, test the appliance weekly and replace it every 10 years.
- After each battery change, check the function of the device by pressing the test button for at least 5 seconds.
- Only use the batteries specified in the instructions.
- Technical changes and errors excepted!

Important information on batteries and their disposal

Batteries **do not** belong in household waste. As a consumer, you are legally obliged to return used batteries for proper disposal.

You can hand in your batteries at the public collection points in your municipality or wherever batteries of the same type are sold.

- Rechargeable batteries have a lower output voltage than batteries. In some cases, this can mean that a device requires batteries and does not work with rechargeable batteries.
- Batteries do not belong in the hands of children.
- Batteries leaking liquid are dangerous. Only touch them with suitable gloves.
- Do not attempt to open batteries and do not throw batteries into fire.
- Normal batteries must not be recharged. Caution: Risk of explosion!
- Always use batteries of the same type together and always replace all batteries in the appliance at the same time!
- Remove the batteries from the device if you will not be using it for a longer period of time.

Important notes on disposal

This electrical appliance should **not be** disposed of with household waste. For proper disposal, please contact the public collection points in your municipality.

For details on the location of such a collection centre and any existing quantity restrictions per day/month/year, please refer to the information provided by the respective municipality.

Declaration of Conformity

PEARL.GmbH hereby declares that the product ZX-2510-675 is in compliance with the Construction Products Directive.

Regulation (EU) 305/2011, the RoHS Directive 2011/65/EU, the EMC Directive 2014/30/EU and the Radio Equipment Directive 2014/53/EU.



Quality management
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You can find the detailed declaration of conformity at www.pearl.de/support. Enter the article number ZX-2510-675 in the search field.

Information and answers to frequently asked questions (FAQs) about many of our products as well as updated manuals can be found on the website:

www.visor-tech.de

Enter the article number or the article name in the search field.

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EN 14604:2005/AC:2008
Smoke alarm
device ZX-2510-
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