

## Operating instructions for the heat detector GS403

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Thank you for choosing a product of SEBSON. Please read the instructions carefully and keep them for looking up before start-up this product. A long and failure-free operation can only be guaranteed if the installation and start-up is done properly.

**Note:** Please read all warnings and instructions before using this equipment!

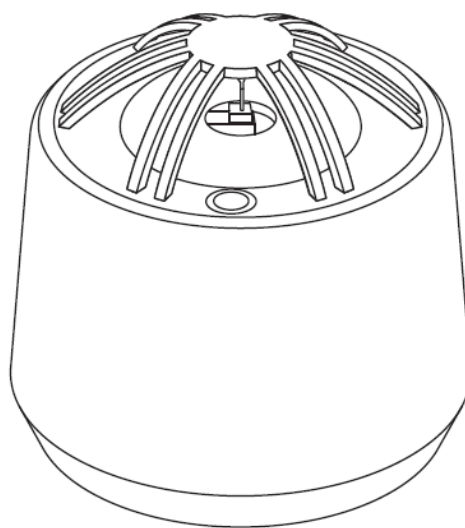
This heat detector is used for early warning of dangerous heat development. As soon as an ambient temperature of more than 54°C is reached, a loud alarm will sound and the LED will flash.

- Heat detectors are particularly suitable for kitchens or rooms where strong smoking is required.
- This heat detector type GS403 may only be used in private rooms.
- After a maximum of 10 years as well as with signaling the battery fault signal, the heat detector must be replaced.
- Please note that this heat detector is not a substitute for smoke-alarm-, gas- or carbon monoxide detector!
- The heat detector can detect a fire early. The heat detector is not suitable for preventing a fire!

**Scope of delivery:**

- Heat detector Type: GS403
- 2 screws and 2 dowels

**Model-number:** GS403



**Heat detector GS403**

## 1. Safety instructions

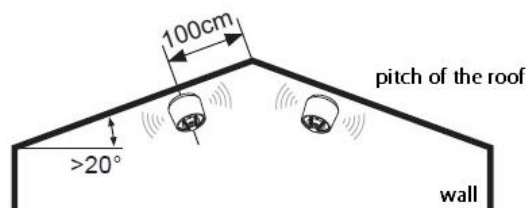


- **Note:** The alarm sound is very noisy! Your hearing can be damaged if you are exposed to the loud alarm sound over a longer period of time!
- Please do not paint over the heat detector with paint or similar!
- Do not install the detector in difficult to access areas! The detector must be checked regularly for its function!
- Get rid of the heat detector regularly (at least every six months) of dust and other deposits of dirt! Please use a paint brush or a slightly cloth moistened with water. In dusty conditions, the heat detector should be cleaned monthly.
- This product is only suited for indoor-use and not for outdoor-use. Protect it against humidity and moisture, splashing or dripping!
- Damaged heat detectors must be replaced immediately!

## 2. Mounting location in rooms of the heat detectors

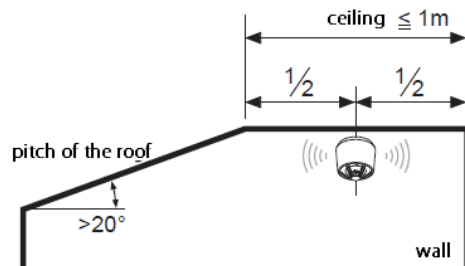
### 2.1 Heat detectors should be installed in the following rooms:

- Rooms are equipped with electrical appliances.
- *Bedrooms:* If several bedrooms are in the house, then the attachment of heat detectors in each bedroom are advised.
- *Corridors and stairways (At least one heat detector per floor)*
- *Living and working rooms as well as in kitchens*
- *Storage areas and garages*
- *Rooms with fireplaces or wood stoves*
- *Washing and drying rooms*
- *Cellar and attic space:* With the attic space a distance should be kept to the roof point of at least 100cm (see Figure 1).



**Figure 1:** Mounting the heat detector on the roof slope

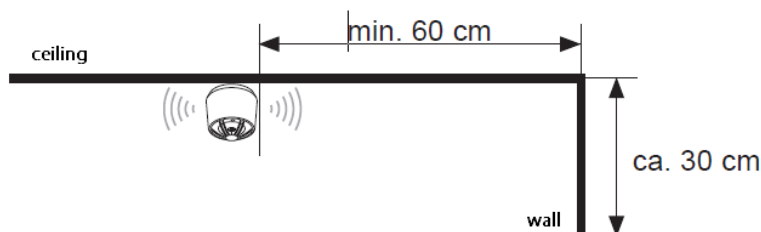
If the horizontal ceiling is less than 1 m wide, then the heat detector must be installed in rooms with sloping ceilings as shown in *Figure 2*. If the ceiling is greater than 1m, then the heat detector is placed on the horizontal ceiling



**Figure 2:** Mounting the heat detector on the ceiling  $\leq 1\text{m}$

**Note:** If you are unsure about the mounting of the heat detector in your rooms, please advised by a qualified electrician!

The heat detector must be installed on the ceiling in the middle of the room, because heat rises to the ceiling of the room and spread horizontally. The heat detector should be placed possible so that this is at least 50cm from the side wall and 60cm mounted away from the corner of the room. If you attach the heat detector to the wall, attach it approx. 30cm from the ceiling (see Figure 3).

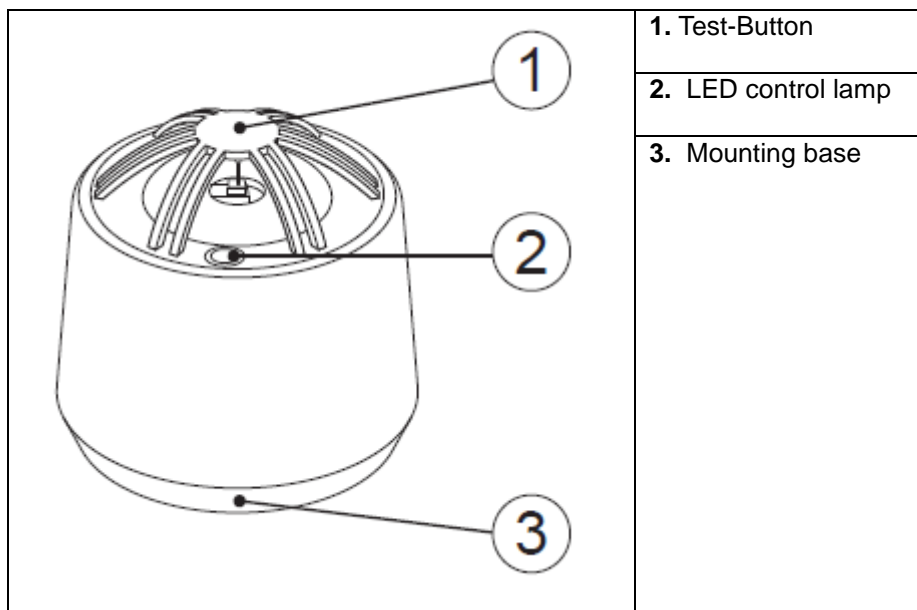


**Figure 3:** Mounting the heat detector on the ceiling or wall

- On ceiling beams, which are thicker than 20 cm, no installation of heat detector should be done. A minimum distance of 50 cm is urgently recommended.
- The heat detector should be mounted at least 50 cm away from lamps and fluorescent lamps.
- An installation height of 6m maximum should not be exceeded. If the installation height is more than 6m, the heat detector must be installed on several levels.
- The heat detector can supervise a maximum area of 60m<sup>2</sup>.
- The maximum distance of heat detectors in extensive corridors can be up to 15 m. To the end side of corridors the heat detectors should be applied in the distance of maximum 7.5 m.
- In small corridors and rooms which are not wider than 1m, the heat detector must be mounted in the middle of the ceiling.

## 2.2 Rooms where no heat detector should be installed

- A heat detector in the kitchen should only be installed, if the distance to the stove is at least 4m.
- Heat detectors should not be installed close to heaters, heating-, cooling- and ventilation-shafts. Also, they may not be mounted on open fires or fireplaces.
- Do not install a heat detector in the immediate vicinity of doors and windows!
- With A-shaped roofs the heat detectors may not be mounted at the highest point.
- Rooms having a room temperature of below above 50 ° C.

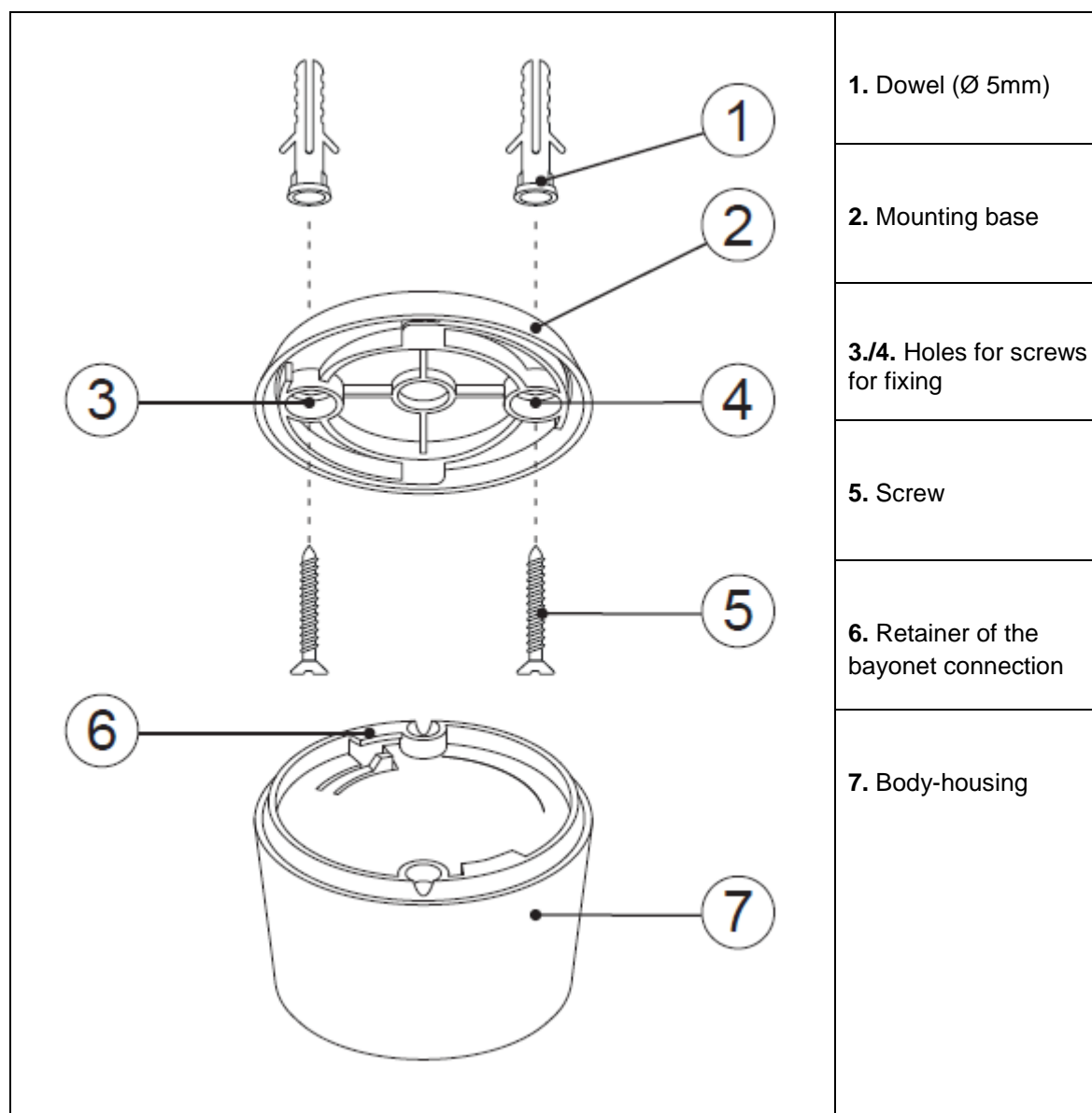


### 3. Installation

Before starting up this product, please check for external damage. In case of visible external damage we immediately dis-advise the start-up of this product! Please remove all packaging material of this product before the first start-up.

1. Disconnect the mounting base by turning it counterclockwise from the case.
2. Hold the mounting base to this position on the ceiling, where you want to mount the heat detector. Draw with a pencil the holes for the bores to the ceiling.
3. Then drill two holes ( $\varnothing$  5mm).
4. Now take the two in the scope of delivery supplied dowels and put them in the bores.
5. Screw the mounting base to the ceiling. The screws are included in scope of delivery.
6. Finally take the smoke detector and turn the housing clockwise until it clicks on the mounting base to the ceiling. The heat detector is now ready for use.

**Attention:** The heat detector is only ready for operation if the case is properly attached to the mounting base. Otherwise the battery is deactivated and the heat detector is not ready for use.



## 4. Startup

### 4.1 Activation of the heat detector

The heat detector will be activated by fixing the alarm housing to the mounting cover (see chapter 3).

## 4.2 Function Control of the heat detector

The TEST button is used to check the function of the heat detector. After pressing the key a very loud alarm will sound! Keep the heat detector at least an arm's length away from your body while pressing the TEST button. Afterwards the LED starts flashing and the alarm sounds. In this case the function of the electronics, the alarm device of the heat detector and the battery is checked. After releasing the TEST button, the alarm will turn off automatically.

**Attention:** Test the heat detector weekly to its function by pressing the test button. It even beeps once and the alarm stops automatically after releasing the TEST button.

## 4.3 Temporary muting the Alarm

In a false alarm, which was not caused by a fire, the alarm can be switch off for about 10 minutes. However you must absolutely make sure that the alarm was not activated by a fire. To temporarily turn off the alarm, press the TEST button. Then open doors and windows to cool down the room. If the room temperature is still too high after 10 minutes, the alarm sounds again. By pressing the test button, the mute function can be repeated as often as desired. The mute function can be simply deactivated by pressing again the start button. At an excessively heat development, this function is not adjustable.

## 4.4 Recurrent self-test of the heat detector on its function

The heat detector performs every 32 seconds a self-test. You can see this by a short blink of the LED.

**Note:** In case of improper function of the heat detector, please contact the manufacturer!

## 5. Explanation of the LED modes

<b>LED flashes every 32 seconds:</b>	The heat detector is working properly.
<b>LED flashes every second and alarm sounds:</b>	TEST button is pressed or the alarm has been triggered by heat.
<b>LED flashes every 8 seconds:</b>	The alarm is in the silent mode ( <i>see section 4.3</i> ).
<b>LED flashes every 32 seconds and a short alarm tone sounds:</b>	Battery is low. The heat detector must be replaced.
<b>LED does not flash but the alarm sounds every 32 seconds:</b>	The heat detector is not working properly.

## 6. Technical Data

<b>Power supply:</b>	3V DC (lithium battery: CR123A)
<b>Energy consumption:</b>	< 5uA (Stand-By), 160mA (Alarm)
<b>Heat sensitivity:</b>	54-70°C
<b>Air humidity:</b>	10-85%
<b>Alarm Volume:</b>	≥ 85dB (A) within 3m
<b>Heat alarm signal local:</b>	Peep 0,5s – Pause 0,5s - Peep 0,5s – Pause 0,5s - Peep 0,5s – Pause 1,5s LED flashes – Repetition of the signal

## 7. Information to the re-built battery

This heat detector is equipped with a non-replaceable lithium battery. The battery will last approximately 10 years during normal operation. Should the battery will be weaker, every 32 seconds a clearly perceptible signal will be sent out from the heat detector. This signal is audibly at least 30 days. As soon as the beep sounds, the heat detector must be replaced. Batteries should never be exposed to extreme heat (for example, by strong sunlight or fire). Never throw batteries into the fire. Risk of explosion!

## 8. Behavior in case of fire

The installation of a heat or smoke alarm detector is only one of many fire protection measures. Other fire protection measures are e.g. the provision of a fire extinguisher or a fire blanket. Another measure is the creation of an escape plan and the subsequent discussion with your roommates or your family.

If the fire cannot be extinguished with a fire extinguisher or a fire blanket by yourself, then leave the house immediately! Do not waste time to put clothes on or by transportation of personal objects - because every second counts!

After leaving the house please inform the fire department immediately!

When leaving the burning room, please check first the surface of the door to its temperature. Should the door be hot or under the door smoke rising up, do not open the door! If possibly please use another door or a window to escape from the room. If the surface of the door is cold, then brace yourselves with the shoulder against the door and open it a small gap. Be always careful and ready to slam the door quickly, if heat or produced penetrates from the next door.

With strong production of smoke please keep close to the ground and breathe - if possibly - through a cloth. Better still by a damp cloth!

You may enter the house again only after release or permission of the fire brigade!



## 9. Maintenance and cleaning

This device is maintenance free. Please remove the housing regularly from dirt, dust or spider webs! For this, use the best vacuum cleaner with soft suction brush or a soft cleaning cloth. Ensure that the housing and the air slots are free from contamination at all times, in order to ensure proper functioning.

**Note:** Never open the housing to clean the unit from the inside. This can impair the functionality and the warranty guarantee will be extinguished!

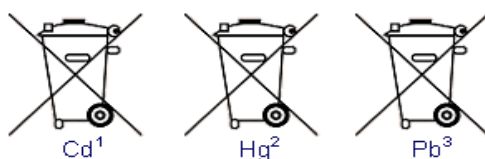
## 10. Disposal of waste batteries

Batteries and rechargeable batteries may not be disposed in the household waste. The end-consumer are legally obligated to the return of all used batteries and/or accumulators. After usage you can return batteries and / or accumulators gratuitous in the sales point or in their direct vicinity (for example at municipal collection points and trade). Otherwise, you can also return the batteries and / or accumulators by post to us: SEBSON - Gernotstr.17-44319 Dortmund – Germany



Batteries and / or accumulators which contain harmful substances are marked with the symbol of a crossed-out waste bin and may not be disposed of with household waste. Under the dustbin symbol is the chemical name of the harmful substance - in the example below - "Cd" for cadmium, "Pb" stands for lead, "Hg" for mercury .

Meaning of symbols:



1 Battery containing more than 0,002 mass percent of cadmium

2 Battery containing more than 0,0005 mass percent of mercury

3 Battery containing more than 0,004 mass percent of lead

The harmful Substances which are contained in the batteries, may cause danger to health and the environment in case of improper disposing.

## 11. General Disposal



This product may not be disposed of with household waste. At the end of its useful life, the product must be returned to a point of acceptance for the recycling of electric and electronic device. Please ask your local municipality for the point of acceptance! As the devices contain valuable recyclable materials, they should be sent for recycling, in order not to harm the environment or human health from uncontrolled waste disposal.

## 12. CE Declaration of Conformity

This product has been prepared according to the listed below guidelines.

- EMC 2014/30/EU
- RoHS 2011/65/EU

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