

Instruction manual

WIRELESS INTERCONNECTABLE HEAT ALARM WITH A BUILT-IN 10-YEAR 3V BATTERY



Model: AHD-10QR (Class A2)



BS 5446-2-2003



	BS 5446-2-2003	
	Essential characteristics:	Performance:
1134	Nominal activation conditions/sensitivity, response delay (response time) and performance under fire conditions:	Passed
Fito Products BV De Langkamp 12a 3961 MS Wijk bij Duurstede The Netherlands	Operational reliability:	Passed
	Tolerance to supply voltage:	Passed
	Durability of operational reliability and response delay, temperature resistance:	Passed
	Durability of operational reliability, vibration resistance:	Passed
25 BS 5446-2	Durability of operational reliability, humidity resistance:	Passed
	Durability of operational reliability, corrosion resistance:	Passed
	Durability of operational reliability, electrical stability:	Passed
Heat alarm, warns you when the ambient temperature exceeds 60 °C and is suitable for residential buildings.		

RETAIN THESE INSTRUCTIONS FOR FUTURE USE!

These instructions contain important information for correct installation and use of your heatalarm. Please read this information carefully and retain these instructions for future reference.

SAFETY ISSUES:

- Do not paint to the heat alarm and do not cover it.
- Test your heat alarm regularly, once a month and always after a period of absence. Test by pressing the test button for at least 2 seconds, a loud alarm will follow. Keep a distance of at least 50 cm. between the alarm and your ears.
- Never open the heat alarm, this will invalidate the warranty.

IMPORTANT INFORMATION

Correct usage will ensure you have valuable extra time to escape. Every correctly installed smoke- and heat alarm will increase your potential escape time.

- A heat alarm is not a fire-prevention measure.
- Install the heat alarm in the correct location, preferably in the centre of the ceiling.

WARNING: Read carefully chapter "*Never fit a heat alarm*"

- Keep the heat alarm out of the reach of children.
- Test the unit monthly basis and after any period of absence. If the alarm does not sound, have it inspected by a service centre. If the heat alarm is more than 10 years old, replace it.

CAUTION: Never test the alarm with fire!

- If the heat alarm emits a short beep every 40 seconds, the battery is nearly depleted and the alarm must be replaced..
- The service life of the heat alarm is 10 years.
- You can temporarily reduce sensitivity for 10 ± 2 minutes by briefly pressing the Test button (Hush function).
The alarm will still activate if the temperature exceeds 75 °C.
- The Hush and Test functions can also be activated using the optional ASD-RRC wireless remote control.

IMPORTANT INFORMATION IN CASE OF ALARM IN THE EVENT OF A FIRE

- Plan TWO escape routes and practise them with all family members.
- Agree on a safe meeting point outside the building.
- In the event of a fire:**
 - Leave the building immediately and go to the agreed meeting point.
 - Ensure everyone has evacuated safely.
 - Close doors behind you.
Never open a warm door; choose an alternative escape route.
- If smoke is present, crawl close to the floor.

- If possible, breathe through a (preferably damp) cloth. Most fire-related injuries are caused by smoke inhalation.

- Call the fire brigade from outside the building or from a neighbour's home.

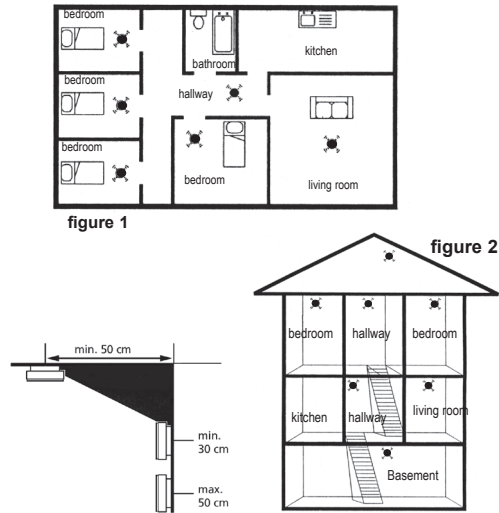
- NEVER** re-enter a burning building.

SPECIFICATIONS:

RF frequency: 868.100 MHz (<1% duty cycle)
RF Codes: 16 million (16,777,214)
RF Power: max. +14 dBm
RF range: minimum 100 m (open field)
Battery life: 10 years under normal conditions
Battery type: Sealed, Lithium, AA, 3V
Consumption: ≤ 12 µA standby
≤ 120 mA in alarm
Operating temperature: 0°C tot + 50°C
Operating humidity: < 93% RH at 40° C
Alarm sound level: ≥85dB at 3 m
Hush time: 10 ± 2 minutes.
Certifications: BS 5446-2-2003, CE, RED

POSITIONING THE SMOKE- AND HEAT ALARM

RECOMMENDED LOCATIONS:



Maximum protection:
- Install smoke alarms in all rooms except bathrooms, kitchens, and garages.
- Install heat alarms in kitchens, utility rooms, airing cupboards, etc., within 5 m of a potential fire source.

Positioning the heat alarm.

- Install the heat alarm preferably in the centre of the ceiling, at least 50 cm from walls.
- For pitched roofs, install on the sloping ceiling at least 90 cm vertically from the roof ridge.
- Ensure the heat alarm is always accessible for testing and cleaning.

Never install a heat alarm:

- In areas where temperatures may exceed 50 °C or fall below 0 °C (e.g. attics, directly above fireplaces).
- Near decorative objects, doors, lights, sockets, windows, or ventilation openings (minimum distance: 50 cm).
- On surfaces significantly warmer or cooler than the rest of the room.
- Adjacent to or directly above stoves or heaters.
- Within 1.5 metres of fluorescent lights. Electrical impulses can adversely affect the functioning of the detector.
- In dusty or dirty environments.
- Within 1 meter of dimmer switches and wiring. Some dimmer switches can trigger a fault in the detector.

The labels on the rear side of the heat alarm contain important information.

HOW TO USE THE AHD-10QR:

Wireless interconnecting the alarms:
The AHD-10QR is a wireless device. Each heat alarm can act as a transmitter or receiver.
To interconnect a few smoke- and/or heat alarms the unique RF code must be generated in one of them and set to the others. All ASD-10QR smoke- and AHD-10QR heat alarms in a house, apartment or

property should be set to the same RF Code. It is not recommended to interconnect more than 48 alarms.

Generating the unique RF Code:

- Remove all alarms from their bases.
- On one alarm (Master), press and hold the Test button for 4 seconds until the red LED lights continuously, then release. The Master alarm selects one of 16 million RF codes. Coding mode ends automatically after 2 minutes.
- In order to set the generated code to the other smoke- and heat alarms (Slaves) Briefly press the Test button on each additional alarm within the 2-minute coding period. Successful programming is confirmed by a flashing red LED and an audible signal.
- Press the Test button on the Master or mount it onto its base to end the procedure. The red LED will extinguish indicating that the interconnect procedure has ended.

How to disconnect a heat alarm:

If you need to disconnect one smoke- or heat alarm carry out **Generating the unique RF Code** procedure.

How to add a heat alarm to an Existing Group:
First method: On a smoke or heat alarm removed from the base, that is part of the group, perform 10 clicks on the Test button. On the heat alarm that needs to be added to the group, click the Test button. A short sound signal will confirm the action. To exit the joining mode, click the Test button on Master.
Second method: If the first option is not successful, repeat the **RF code generation procedure** for all alarms to be interconnected.

Testing the alarms:

Test your alarms monthly and after any period of absence.
Turn all interconnected alarms onto the base plate. Press and hold the Test button on one alarm. After 10–30 seconds, all interconnected alarms will activate.
Repeat this test for each alarm in the system.

The installation:

- Select a suitable location according to the positioning guidelines.
- Remove the base plate by turning it anticlockwise. (to the left).
- Mark the mounting holes in the base plate and drill the holes (use a 6 mm drill). If you do not use the do-wels, then use a 3 mm drill.
Mounting holes:

Screw the base plate securely onto the ceiling. Make sure that the base plate is tight against the ceiling so that no air circulation above the heat alarm is possible, which could impede heat detection.
If the opening is too large, this must be remedied by the use of a filler.
If you use the double sided tape, make sure the base and the surface you want to install the heat alarm is grease free. Attach the double sided tape to the base and then the base to the ceiling.
- Place the heat alarm on the base and turn it until the heat alarm clicks into the base. Turn the heat alarm clockwise to secure the heat alarm and activate it. A melody will sound to confirm the activation.
- Test your heat alarms by following the procedure as described in chapter: "**Testing the alarms**"

WARNING:

To prevent injury, the heat alarm must be securely attached to the ceiling/wall in accordance with the installation instruction.

WARNING:

The heat alarm contains a lithium battery, make sure it is not exposed to excessive heat such as direct sunshine, fire or the like.

ATTENTION: The heat alarm should be covered or temporarily removed during renovation work or structural alterations. Once the day's work is complete, clean the heat alarm with the soft brush from a vacuum cleaner and then activate it again. Always test it by pressing the test button once it has been reinstalled.

Function and meaning of light and sound signals:

Sound signal:	Red LED:	Function:
No signal	Flashes every 320 sec.	Standby mode Periodical automatic self-diagnostics
Long pulsating sound	Flashes every 0.5 sec.	Alarm status
Long lingering sound	Non	1 of the interconnected smoke alarms are in alarm
1 short signal every 40 sec.	Non	Low battery signal. The smoke alarm needs to be replaced.
2 short signals every 4 hour	Non	Low battery signal in one of the interconnected alarms. This alarm needs to be replaced.
3 short signals every 40 sec.	Non	Fault/ smoke chamber contamination
No signal	Flashes every 0.5 sec.	The smoke chamber has been abruptly contaminated and needs to be cleaned.
No signal	Flashes every 10 sec.	HUSH mode (Alarm muting, sensitivity reduction)
Long pulsating sound while pressing the test button.	Flashes every 0.5 sec.	Test mode: The alarm operates correctly. All interconnected and installed to the base alarms will go to Remote Alarm status in 10 - 30 sec.
3 short signals while pressing the test button.	Flashes every 3 sec.	The alarm does not operate correctly and needs to be replaced.
- When the AHD-10QR is removed from the base (disconnected) after detecting a problem, it gives the sound that belongs to the detected problem. - The remaining connected ASD-10QR smoke alarms and AHD-10QR heat alarms will sound two beeps on disconnection (removal from base), up to 4 hours after removal of the alarm with a battery empty indication.		

WARNING: covering the heat alarm causes loses its functionality.
WARNING: Do not paint the heat alarm. Also never test the heat alarm with fire.

FALSE ALARM

Heat from nearby appliances may trigger false alarms. If this occurs frequently, relocate the alarm. When a heat alarm does not functioning correctly, contact your supplier or Fito Products BV. Additional information can be found on our website www.fito.nl FAQ.

WARNING: If there is any question as to the cause of an alarm it should be assumed that the alarm is due to an actual fire and the dwelling should be evacuated immediatley.

MAINTENANCE

- Test your alarms monthly and after a period of absence. See "**Testing the alarms**".
- Never allow the heat alarm to come into contact with fluids.

LIMITATIONS OF HEAT ALARMS

In countries where they are commonly in use, smoke- and heat alarms have contributed to reducing deaths and injuries. Independent bodies have established that they were insufficient in around 35% of fires, namely in the following situations:

- The battery was not working. For that reason, you should test the unit regularly.
- Smoke or heat was not able to reach the smoke- or heat alarm in the event of a fire, meaning the alarm did not go off. For example a fire on another floor where there were no alarms installed, a fire behind closed doors, a fire in a chimney or smoke being blown away from the alarms. Therefore smoke alarms are recommended in all rooms, or at least on every floor.
- The alarm was not heard. A person may not be woken by the alarm if that person had consumed excess alcohol and/or drugs.
- A few fires are not always detected on time, e.g. smoking in bed, if there is no smoke alarm in the bedroom. In the case of escaping from gas or violent explosions, improperly storing explosive products and flammable liquids (petrol, paint, methylated spirit, etc.), electrical faults, acids, children playing with matches (fire).
- The lifespan of smoke- and heat alarms is 10 years.

PRODUCT WARRANTY

If used and maintained properly, the manufacturer guarantees this product against material and/or manufacturing defects for a period of 5 years from the original date of purchase. This guarantee only applies if the heat alarm is activated within 14 months after the production date. Exceptions include damage arising from accidents or misuse. If the product becomes defective within the stated period, it will be repaired or replaced free of charge. Please do not open the heat alarm or attempt to repair it yourself or tinker with it, as this will invalidate the warranty.
WARNING: Unscrewing the heat alarm invalidates the warranty.

INSTRUCTIONS FOR REMOVAL

Do not dispose of your old heat alarm in the bin, but rather hand it in to a local collection point for small, domestic waste.



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figure 4

