

Qoltec®



USER MANUAL

Wi-Fi smoke detector

52653

EN

Introduction

Thank you for choosing the Qoltec home photoelectric smoke detector.

To ensure your personal and system safety and to obtain the best performance from the device, please read this manual carefully and thoroughly before installing, using or repairing this device. Please pay particular attention to the warnings and notes contained in the manual.

Product description

The Qoltec home photoelectric smoke detector (detector) detects a fire by detecting smoke. When the concentration of smoke in the room reaches a specified level, the detector activates an audible and visual alarm. The detector is intended for use in residential buildings.

Applicable standard: EN 14604:2005+AC:2008

Product features

- Detection using a single light source – no false alarms caused by dust, insects or moisture.
- Professional labyrinth design ensuring rapid fire detection.
- Low power consumption, very long standby time, 10-year service life.
- Housing allowing cleaning without the need for dismantling.
- Drill-free installation thanks to a swivel design and 3M double-sided tape.

Installation method

1. Place the mounting plate at the chosen installation location and mark the positions where the holes are to be drilled.
2. Drill two 4 mm diameter holes (spaced 42 mm apart).
3. Press the plastic plugs into the holes.
4. Insert the screws into the mounting plate and tighten them firmly into the dowels.
5. Secure the smoke detector to the mounting plate by turning it clockwise.
6. Tighten the smoke detector once the holes on the mounting plate and the detector are aligned.
7. Press the test button to check that the smoke detector is working properly — if there is no sound, the detector is faulty and unsuitable for use.

Plastic plug size: M4×20

Screw size: M2.6×16

Notes:

The smoke detector should be installed in the centre of the room's ceiling.

The smoke detector should only be installed indoors; at least one detector is recommended in each room.

The detector should be positioned at least 150 cm away from light sources, extractor fans, air conditioners, and air inlets and outlets.

Do not install the detector in a bathroom or in areas exposed to water (e.g. water droplets).

Figure 1

1. Use 3M double-sided tape to attach the mounting plate to the ceiling.

Figure 2

2. Secure the sensor to the mounting plate.

Figure 3

3. Turn the sensor clockwise to lock it onto the mounting plate.

Figure 4

Indicator LED status

1. Normal operating status

In normal operation, the red LED flashes once every 40 seconds.

2. Alarm status

When the smoke concentration reaches the alarm level, the red LED flashes continuously and the detector emits an audible signal (alarm beep).

3. Test mode

When the test button is pressed briefly, the red LED will flash continuously and the detector will emit 2 series of 3 beeps before stopping automatically.

4. Power failure (low battery)

If the battery is low, the red LED flashes once and a single beep sounds every 40 seconds.

5. Device fault condition – The red LED flashes twice every 40 seconds, and the sensor emits two beeps every 40 seconds.

6. Mute mode (Hush)

When the detector is in alarm mode, the user can briefly press the test button to put the detector into Hush mode. During this time, the alarm will not emit an audible signal. After 9 minutes, if the smoke concentration still exceeds the alarm threshold, the detector will reactivate the visual and audible alarms.

Note: Hush mode does not eliminate the fire hazard. In the event of any alarm, you must immediately check the premises for a possible source of fire.

Dispose of the used battery in an environmentally safe manner.

Technical specifications

Standard: EN 14604:2005/AC:2008

Power supply: DC 3V

Battery capacity: 1600 mAh

Battery type: CR123A

Product lifespan: 10 years

Battery life: 2 years

Standard/version: 802.11b/g/n

Battery life: 10 years (non-replaceable)

Current consumption in alarm mode: <50mA

RF transmit power: 11b: 16 dBm, 11g: 15 dBm, 11n: 14 dBm

Average quiescent current: <9 µA

Operating temperature: -10°C ~ 55°C

Operating humidity: ≤95% RH

Alarm sound level: ≥85dB (at 3m)

Alarm mode: Sound + light

Sound level: ≥85 dB / 3 m

Mounting: Ceiling-mounted (screw-fixed)

Dimensions: 76 mm × 76 mm × 28.5 mm

Weight: 80 g

Battery replacement

1. Unscrew the smoke detector from the mounting plate by turning it anticlockwise.
2. Replace the battery with a new one, ensuring the polarity is correct as indicated.
3. Press the test button to check the sensor's operation, then reattach the sensor by turning it clockwise until it clicks into place.
4. If the sensor indicates a low battery fault, replace the battery immediately with a new one of the same type. After replacement, press the test button – the sensor will emit an audible and visual signal, confirming successful replacement.

Troubleshooting

Fault	Possible cause	Solution
The alarm triggers immediately after power is switched on	A large amount of smoke in the room	Switch the device on again after clearing the smoke
	Damage to the internal circuitry	Return the device to the service centre
The red LED flashes once and a single beep sounds every 40 seconds after power is switched on	Low battery voltage	Replace the device
The red LED flashes twice and two beeps are heard every 40 seconds after powering on	Internal circuit fault	Return the device to the service centre
	Low battery voltage	Replace the device
No alarm during test	No sound or very faint buzzer sound	Return the device to the service centre
No sound or very faint buzzer sound	Damaged or incorrectly fitted buzzer	Return the device to the service centre

Maintenance

Once the detector has been installed and activated, press the test button once a week to check that it is working properly.

Cleaning the smoke detector: clean the detector at least once a year to remove accumulated dust and maintain its performance.

Note:

Do not paint the smoke detector or cover it with paint, varnish or other coatings, as this may block the smoke intake and prevent the device from working properly.

Do not use solvents or detergents to clean the detector — they may penetrate the device, causing damage to the sensor or circuits. Use a cotton cloth or sponge for cleaning.

Disposal

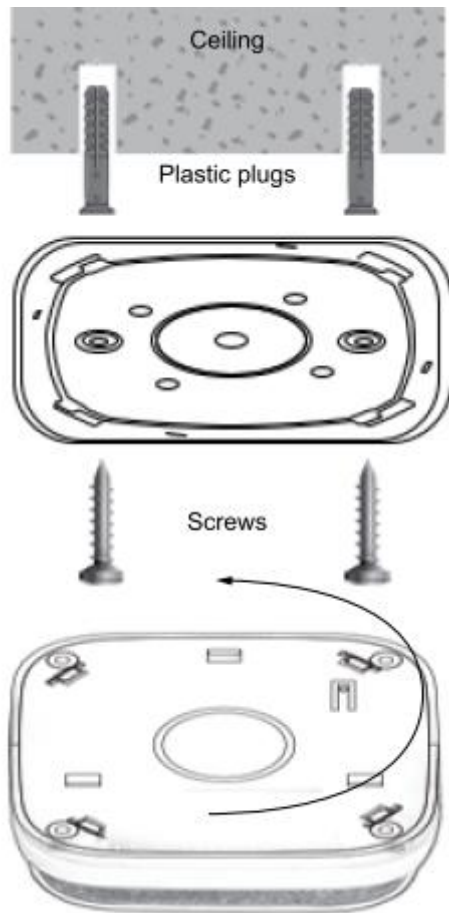
1. Dispose of in accordance with local regulations regarding electronic waste.
2. Do not throw into a fire or incinerate.

Warranty

The product is covered by a 24-month manufacturer's warranty from the date of purchase. If you encounter any problems, please contact customer service.

Attachment 1

1



2



3



4



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