

Tech specs

BASELINE

# FireProtect 2 SB (Heat/Smoke/CO) Jeweller

Wireless combined heat and smoke detector with sealed batteries



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## Compatibility

Hubs: [Hub Plus](#) [Hub 2 \(2G\)](#) [Hub 2 \(4G\)](#) [Hub 2 Plus](#) [Hub Hybrid \(2G\)](#) [Hub Hybrid \(4G\)](#)

Radio signal range extenders: [ReX](#) [ReX 2](#)

## Communication

Jeweller communication technology

Proprietary wireless technology for transmission of alarms and events.

Features:

- ♦ Two-way communication.
- ♦ Protection against device spoofing.
- ♦ Block encryption featuring a floating key.
- ♦ Instant notifications.
- ♦ Remote configuration via the Ajax apps.

[Learn more](#)

Radio frequency bands

866.0 – 866.5 MHz

868.0 – 868.6 MHz

868.7 – 869.2 MHz

905.0 – 926.5 MHz

915.85 – 926.5 MHz

921.0 – 922.0 MHz

Depends on the region of sale.

Maximum effective radiated power (ERP): up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation: GFSK

Radio communication range: up to 1,700 m

Between the detector and a hub (or radio signal range extender) in an open space.

[Calculate radio communication range at the facility](#)

Encryption of radio communication

All the data stored and transmitted are protected by block encryption with a floating key.

Radio frequency hopping

To prevent radio interference and jamming.

[Learn more](#)

**Sensitive elements:** smoke sensor ; heat sensor ; CO (carbon monoxide) sensor

## Smoke detection

Sensitive element: double-spectrum optical

Recognizes smoke by the size of particles in the air.

Protection from false alarms

Does not react to water vapour.

Patented smoke chamber

Protects the smoke sensor from dust, dirt, and insects.



**Sensitive element:** according to the requirements for Class A1R heat detectors

Requirements of EN 54-5 and BS 5446-2 standards.

High temperature alarm: at temperatures above 64°C

Temperature spike alarm: when the temperature rises more than 10°C in 1 minute or less

## Carbon monoxide (CO) detection

Sensitive element: chemical CO sensor

Alarm if accumulated dose of CO is exceeded

more than 50 ppm (0.005%) — no more than in 90 minutes

more than 100 ppm (0.01%) — no more than in 40 minutes

more than 300 ppm (0.03%) — no more than in 3 minutes

CO concentration of 400 ppm (0.04%) within 3 hours can be life-threatening. The detector stops notifying about the dangerous level of carbon monoxide when the concentration drops to 50 ppm (0.005%) within one minute.

Sensor life: 10 years

After 10 years of operation, the detector must be replaced with a new one.

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## Additional features

In-built siren: volume 85 dB at a distance of 3 meters

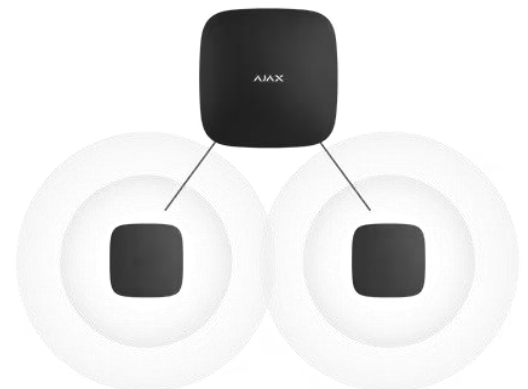
Sound notification of alarms. Active until the reason for triggering is eliminated or until the user disables notification.



## Interconnected Fire Detectors Alarms

All fire detectors in the system turn on built-in sirens if at least one of the detectors registers an alarm. An interconnected fire alarm is activated during one “hub — detector” polling interval but no more than 20 seconds later.

[Learn more](#)



## LED indication

### green is a power indication

A LED indicator on the device enclosure lights up once every 56 seconds. The indication meets the requirements of EN 50291.

### yellow is an indication of malfunctions

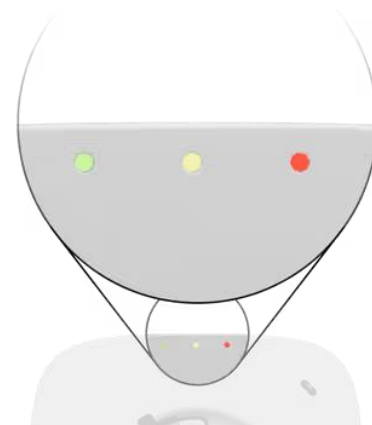
A LED indicator on the device enclosure lights up when malfunctions are detected. For example, in the case of discharged batteries, contamination of the smoke chamber, or end of the service life.

### red is an indication of fire alarms

A LED indicator on the device enclosure lights up when the detector registers a fire alarm.

## Button on the front panel of the detector

In normal mode, when pressed, it starts the smoke chamber test. In the event of an alarm or malfunction, the pressing turns off the detector sound notification.



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## Recommendations

The device is designed only for indoor installation. SmartBracket mounting panel allows adjusting the position of the detector after installation.

### Anti-sabotage protection

#### Tampering alarm

Alerts of attempts to detach the detector from the surface or remove the mounting panel.

[Learn more](#)

#### Protection against spoofing: device authentication

Detection of communication: failure within 15 minutes

The time to detect communication loss depends on the settings for the number of undelivered data packages (specified in the Jeweller or Jeweller/Fibra settings). The polling interval is fixed at 300 seconds.

[Learn more](#)

## Power supply

For FireProtect 2 SB (Heat/Smoke/CO): 2 non-replaceable lithium batteries

10 years of battery life.

## Enclosure

Dimensions: 124 × 124 × 45 mm

Weight: 270 g

Operating temperature range: from 0°C to +50°C

Operating humidity: up to 80%

Protection class: IP20



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## Colours

Black



White



## Complete set

FireProtect 2 RB (Heat/Smoke) Jeweller SmartBracket mounting panel

Installation kit: 2 × CR123A battery (pre-installed) Quick Start Guide

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