

FireProtect Jeweller

Wireless indoor smoke and heat detector with built-in buzzer.

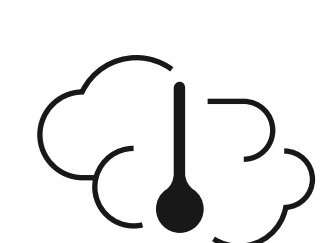


An Ajax hub is required for operation.
Find the detailed information on the device by the link:

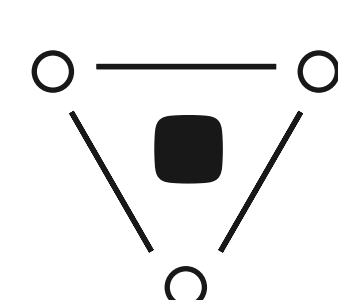
 <http://ajax.systems/support/devices/fireprotect/>



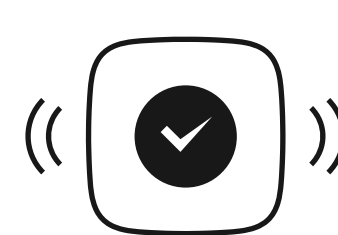
Key features



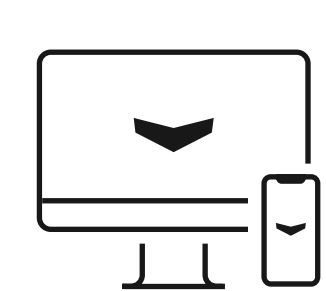
Smoke and rapid temperature increase detection



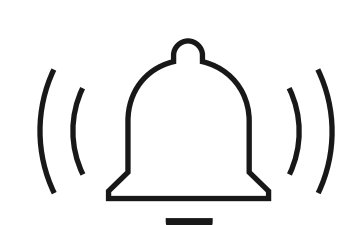
Interconnected alarm feature



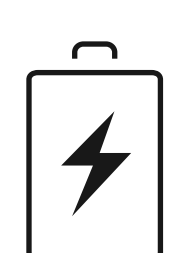
Automatic and manual smoke chamber checks



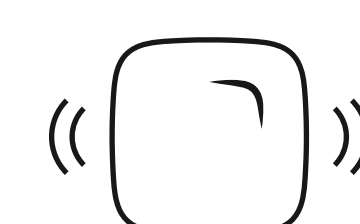
Remote control and setup via the app



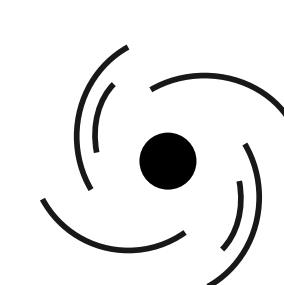
Alarm delivery in 0.15 s



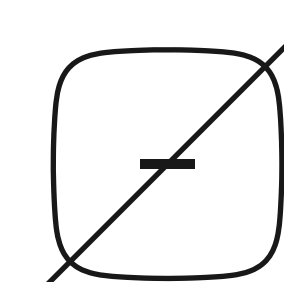
Up to 4 years of operation on pre-installed batteries



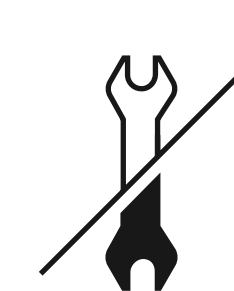
A built-in 85 dB buzzer



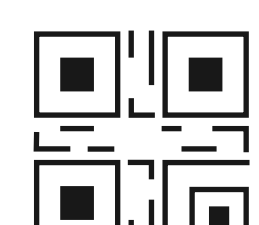
HazeFlow software algorithm to prevent false alarms



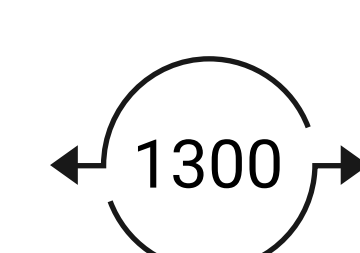
Autonomous operation without an Ajax hub



Effortless installation and maintenance



Connecting via QR code



Up to 1,300 m of two-way encrypted wireless communication between hub or range extender and detector

Operating principle

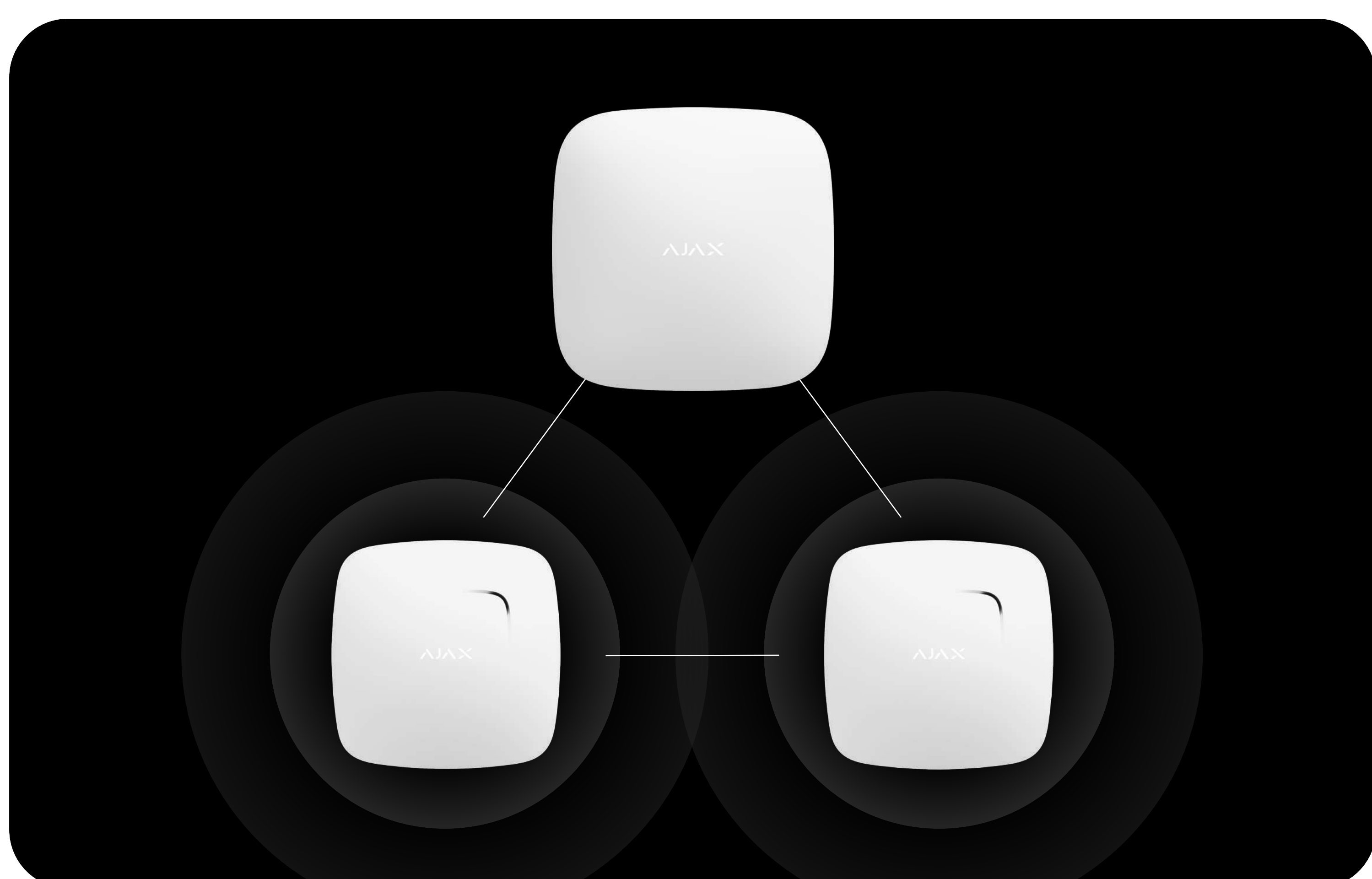
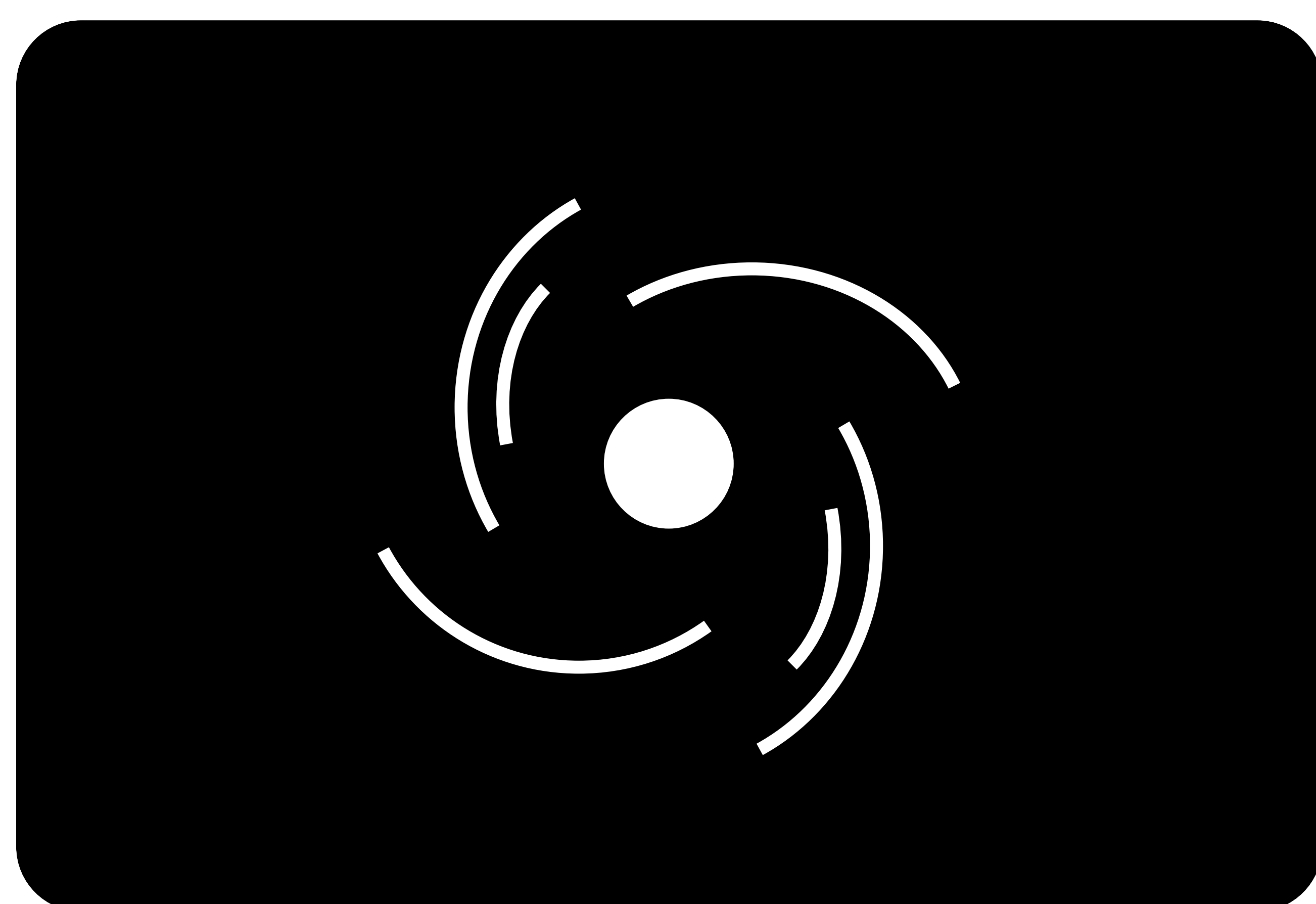


Fire detection

FireProtect detects smoke with a photoelectric sensor. If no smoke is emitted, the heat sensor registers a temperature increase. When the temperature exceeds 60°C or rises by 30°C during 30 minutes, the detector recognizes this as a rapid temperature spike and activates an alarm.

False alarm prevention

To filter false alarms, the detector uses the HazeFlow algorithm – a software solution to verify the presence of smoke. The system will ignore the first smoke alarm and will raise the alarm if the detector registers smoke after 30 seconds during the second check.



Interconnected alarm feature

The detector supports interconnected fire alarms: the feature activates built-in buzzers of all fire detectors in the system if at least one of them is triggered. In case of a fire, this allows to alert as many people as possible. Interconnected fire alarms are supported by FireProtect with firmware versions 3.42 and later.

Smoke chamber check

The device automatically checks the smoke chamber and notifies if it needs to be cleaned from the dust. The smoke chamber can be checked manually by pressing the logo on the device for 5 seconds or by running the check in the app.



Autonomous operation

The detector can be used autonomously without connecting to an Ajax hub. In this case, the detector notifies about fire alarms with a built-in buzzer and LED indication without sending notification to a user smartphone or monitoring station.


Encrypted two-way communication

Jeweller is a **two-way wireless data transfer protocol** to provide fast and reliable communication between Ajax hubs and connected devices. The protocol delivers instant data-rich alarms: security companies and users know which detector has been activated, when and where it is.

Jeweller features **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status in real time. Supporting **up to 1,300 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.



Technical specifications

Communication with control panel	EN 14604:2005/ AC:2008	Compatibility	Hubs All Ajax hubs Range extenders all Ajax radio signal range extenders
Communication with control panel	 Jeweller communication technology 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 sales Maximum effective radiated power (ERP) ≤ 20 mW Communication range up to 1,300 m In an open space Polling interval 12–300 s Adjusted by PRO or user with admin rights in the Ajax app Protection against forgery Device authentication	Motion detection	Sensitive elements Photoelectric sensor Thermocouple Alarm volume 85 dB At a distance of 3 m Type of notification Sound LED indication Temperature alarm threshold +59°C ±2°C

Power supply	<p>Pre-installer batteries 2 × CR2 Main power supply 1 × CR2032 Backup power supply</p> <p>Battery life up to 4 years</p>	Installation	<p>Installation must comply with fire safety rules and standards of the region of use</p> <p>Operating temperature range from 0°C to +60°C</p> <p>Operating humidity up to 80%</p> <p>Protection class IP65</p>
Casing	<p>Colour white, black</p> <p>Dimensions 132 × 132 × 31 mm</p> <p>Weight 220 g</p> <p>Tampering alarm</p>	Complete set	<p>FireProtect Jeweller 2 × CR2 battery Pre-installed 1 × CR2032 battery Pre-installed SmartBracket mounting panel Installation kit Quick Start Guide</p>