

# FireProtect Jeweller

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



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

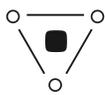
 <http://ajax.systems/support/devices/fireprotect/>



## Key features



Smoke and temperature spike detection



Interconnected Fire Detectors Alarm feature



Automatic and manual smoke chamber check



Remote control and setup via the app



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



Hassle-free installation and maintenance



Connecting via QR code

## Operating principle

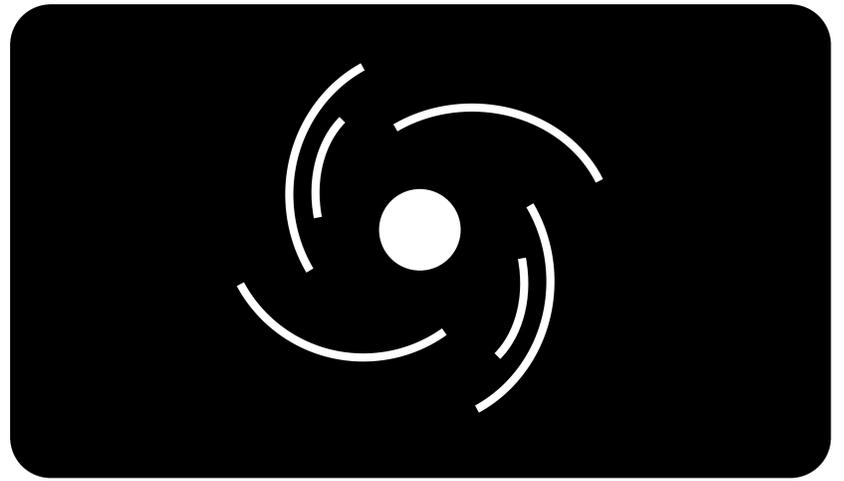


### Fire detection

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 temperature spike and activates an alarm.

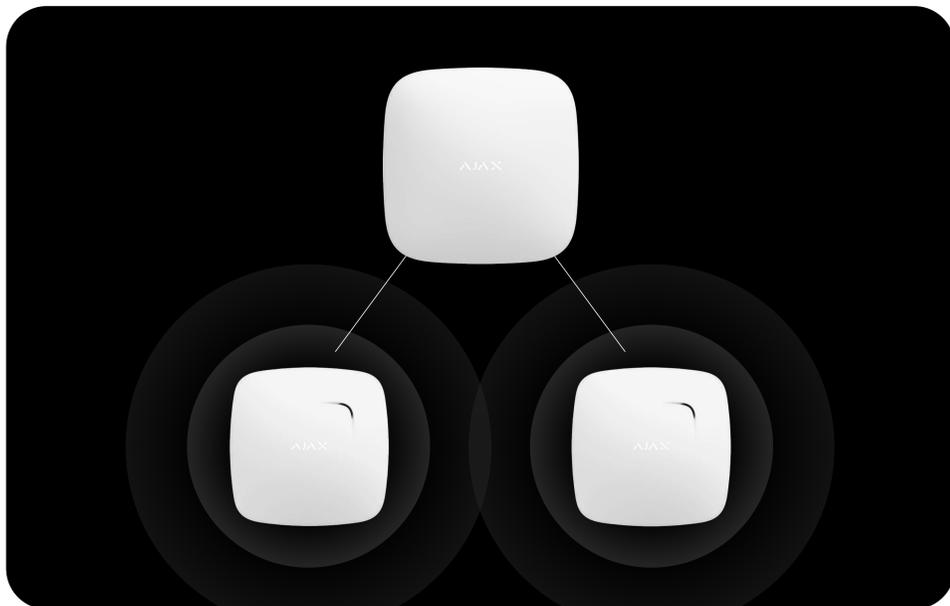
## False alarm prevention

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 Fire Detectors 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 alerting as many people as possible. Interconnected fire alarms are supported by FireProtect Jeweller with firmware versions 3.42 and higher.



## Smoke chamber check

The device automatically checks the smoke chamber and notifies if it needs to be cleaned from the dust. A user can manually check the smoke chamber 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 informs about fire alarms with a built-in buzzer and LED indication without sending notification to a user's smartphone or monitoring station.



# Jeweller

## communication technology



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

Jeweller features **encryption** and **authentication** to prevent spoofing and **polling** to display devices' statuses in Ajax apps. Supporting **up to 1,300 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both system owners and installers.

## Technical specifications

|                                  |  |                  |   |
|----------------------------------|--|------------------|---|
| Communication with control panel | EN 14604:2005/AC:2008  | Compatibility    | <b>Hubs</b><br>All Ajax hubs<br><br><b>Range extenders</b><br>All Ajax radio signal range extenders   |
| Communication with control panel |  <b>Jeweller communication technology</b><br><br><b>Frequency bands</b><br>866.0–866.5 MHz<br>868.0–868.6 MHz<br>868.7–869.2 MHz<br>905.0–926.5 MHz<br>915.85–926.5 MHz<br>921.0–922.0 MHz<br>Depends on the sales region<br><br><b>Maximum effective radiated power (ERP)</b><br>up to 20 mW | Motion detection | <b>Sensitive elements</b><br>Photoelectric sensor<br>Thermocouple<br><br><b>Alarm volume</b><br>85 dB<br>At a distance of 3 m<br><br><b>Type of notification</b><br>Sound<br>LED indication<br><br><b>Temperature alarm threshold</b><br>+59°C ±2°C |

|   |  |                     |   |
|---|--|---------------------|---|
| <p>Communication with control panel</p> | <p><b>Communication range</b><br/>up to 1,300 m<br/>In an open space</p> <p><b>Polling interval</b><br/>12–300 s<br/>Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Protection against spoofing</b><br/>Device authentication</p> | <p>Installation</p> | <p><b>Installation must comply with fire safety rules and standards of the region of use</b></p> <p><b>Operating temperature range</b><br/>from 0°C to +60°C</p> <p><b>Operating humidity</b><br/>up to 80%</p> <p><b>Protection class</b><br/>IP65</p> |
| <p>Power supply</p>                     | <p><b>Pre-installed batteries</b><br/>2 × CR2<br/>Main power supply<br/>1 × CR2032<br/>Backup power supply</p> <p><b>Battery life</b><br/>up to 4 years</p>  | <p>Casing</p>       | <p><b>Colour</b><br/>white, black</p> <p><b>Dimensions</b><br/>132 × 132 × 31 mm</p> <p><b>Weight</b><br/>220 g</p> <p><b>Tamper alarm</b></p>  |
| <p>Communication with control panel</p> | <p>FireProtect Jeweller<br/>2 × CR2 battery<br/>Pre-installed<br/>1 × CR2032 battery<br/>Pre-installed<br/>SmartBracket mounting panel<br/>Installation kit<br/>Quick Start Guide</p>  |                     |   |