



Ajax FireProtect 2 RB/SB (Heat/Smoke/CO) Jeweller

Wireless fire detector with heat, smoke, and CO sensors. Features a built-in siren for alarms and events notification. Operates as part of the Ajax system or without pairing with an Ajax hub.

The device is available in two version: with replaceable or sealed batteries. The name of the detector with replaceable batteries contains the RB mark, and with sealed batteries the SB mark.

An interconnected alarm of all fire detectors at the facility in 20

Built-in siren with a volume of 85 dB at a distance of 3 metres

10 years of operation with sealed batteries, and up to 7 years

Ability to operate autonomously without an Ajax hub

Advanced hardware and software

with replaceable batteries

seconds

KEY FEATURES

Accurate detection of threats

- HazeFlow 2 smoke detection algorithm to filter false alarms
- Dual-spectrum optical sensor ignores vapour and water steam
- Maintenance-free smoke chamber that does not require regular clean-ups

Easy to install and configure

- SmartBracket mounting panel with the ability to align the detector after installation
- Remote control and configuring via Ajax app
- Pairing with the Ajax hub via QR code

OPERATING INFORMATION

Smoke detection

FireProtect 2 detects smoke and does not react to water vapour thanks to a dualspectrum optical sensor with blue and infrared LEDs. LEDs emit light with different wavelengths, which allows the detector to determine the size of the volatile particles and react only to smoke.

The detector's smoke chamber is protected from dust, dirt, and insects. Even if dust enters and settles in the smoke chamber, it does not threaten or impair the detection. The optical system is designed so that non-volatile particles or insects cannot be in two beams simultaneously and cause a false alarm.



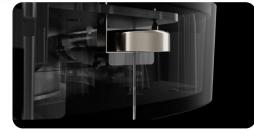
Detection of a rapid temperature rise

Two built-in thermistors are responsible for the reaction to temperature rise. Thermistors are located outside the detector for faster threat detection.

If the room temperature exceeds +64°C or increases at more than 10°C within a minute, the detector recognizes this as a rapid temperature rise and raises the alarm.

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Detection of dangerous CO concentration level

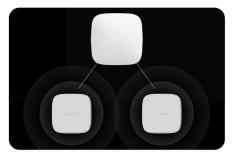
A built-in chemical sensor with a service life of at least 10 years is responsible for detecting a dangerous concentration of carbon monoxide in FireProtect 2.

Carbon monoxide (CO) is a colourless, tasteless, and odourless gas produced due to incomplete fuel combustion in automobile engines and heating appliances that use coal or other natural fuels. For example, it can be made by fireplaces, boilers, or heating systems. In airtight or closed rooms with poor ventilation, life-threatening concentrations of carbon monoxide can accumulate.

Interconnected fire detectors alarms

The detector supports interconnected fire alarms. The feature activates built-in sirens of all Ajax fire detectors at the facility if at least one of them is triggered. In case of a fire, this allows alerting as many people as possible.

FireProtect 2 detectors have an improved interconnected fire alarm algorithm that activates all fire detectors' sirens within 20 seconds. The function is available only when detectors operate with the hub.



Operation without a hub

FireProtect 2 detectors can be used without pairing to an Ajax hub. In this case, the detector notifies fire alarms with a built-in siren and LED indication, and does not send a notification to the user's smartphone, Ajax Translator, or PRO Desktop.

Manual and automatic testing

FireProtect 2 regularly checks the status of batteries and built-in sensors. If a malfunction is detected, the hub will notify users and the monitoring station instantly. And the detector will turn on the light and sound alert by the built-in siren and LEDs. All detector states can be checked at any time in Ajax apps.

The detector supports manual testing mode. It is activated by pressing the device's front panel. The front panel has a mechanical button, which can be pressed either manually or with a floor mop. During the test, the built-in siren and testing of sensors are run. This allows the installer to test the device at any time and to demonstrate to the customer the light and sound indication of the detector for various types of alarms.



Autonomous operation

FireProtect 2 (Heat) is available in two versions: with replaceable or sealed batteries. Detectors with replaceable batteries operate for up to 7 years with preinstalled CR123A batteries. After discharge, the batteries can be replaced with new ones. The model with sealed lithium batteries operates for at least 10 years. After the batteries are discharged, the detector should be replaced with a new one.

Quick pairing and installation

There is no need to disassemble the detector during installation. With an improved SmartBracket panel, an installer can effortlessly fix the detector on ceilings and level it at 90° angles after mounting. The Ajax apps help quickly make the device a part of the system. And it can always be reconfigured remotely without site visits.



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Jeweller is a radio protocol for fast and reliable two-way communication between hubs and connected devices. The protocol provides a wireless radio communication range with FireProtect 2 up to 1,700 meters. This communication range allows you to install detectors even on large-scale objects.

Jeweller is responsible for transmitting alarms and events. The radio protocol also provides an interconnected fire detectors alarm activation within 20 seconds in a system with any number of FireProtect 2. Thanks to Jeweller, users and the monitoring station can always see the current status of detectors in Ajax apps.

Communication with the hub or range extender	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) up to 20 mW Communication range up to 1,700 m In an open space.	Compatibility	Hubs Hub* Hub Plus Hub 2 (2G) Hub 2 (4G) Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G) * only for the FireProtect 2 RB (Heat/Smoke/CO) detectors and Hub with firmware version OS Malevich 2.15.4 or higher Range extenders ReX ReX ReX 2
Compliance with regulations	EN 14604:2005/AC:2008 EN 50291-1:2018	Carbon monoxide (CO) detection	 Sensitive element chemical CO sensor CO alarm 50 ppm (0.005%) in no more than 90 minute 100 ppm (0.01%) in no more than 40 minute 300 ppm (0.03%) in no more than 3 minutes Sensor service life 10 years
Heat detection	Sensitive element two thermistors According to the requirements for heat A1R-class detectors of EN 54-5 standard. Heat alarm • 10°C increase in temperature within 1 minute • exceeding +64°C	Smoke detection	 Sensitive element dual-spectrum optical sensor False alarms prevention optical sensor ignores cooking fumes and water steam patented smoke chamber is dustproof and impenetrable for insect HazeFlow 2 smoke detection algorithm to filter false alarms

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TECHNICAL SPECIFICATION

Additional features	Built-in siren volume of 85 dB at a distance of 3 metresInterconnected fire alarm All fire detectors in the system turn on built-in sirens if at least one of the detectors registers an alarm.The interconnected alarm is activated after no more than 20 seconds.LED indication green is a power indication Lights up once every minute. yellow is an indication of	Anti sabotage protection	Tampering alarmProtection against spoofing device authenticationDetection of communication failure within 15 minutes The time to detect communication loss depends on the number of undelivered data packages setting (specified in the Jeweller or Jeweller/Fibra settings). The polling interval is fixed at 300 seconds.
	yellow is an indication of malfunctions Lights up when malfunctions are detected. For example, in the case of discharged batteries. red is an indication of fire alarms Lights up when the detector detects a fire alarm. Button on the front panel of the detector In normal mode, when pressed, it starts the detector test. In the event of an alarm or malfunction, the pressing turns off the detector sound notification.	Power supply	RB version 2 replaceable CR123A batteries Up to 7 years of battery life. SB version 2 sealed lithium batteries 10 years of battery life.
Enclosure and installation	Dimensions 124 × 124 × 45 mm Weight 274,5 g for RB version 270 g for SB version Operating temperature range from 0°C to +50°C Operating humidity up to 80% Protection class IP20 Colours Black White	Complete set	RB version FireProtect 2 RB (Heat/Smoke/ CO) Jeweller SmartBracket mounting panel Installation kit 2 × CR123A batteries - pre- installed Quick start guide SB version FireProtect 2 SB (Heat/Smoke/ CO) Jeweller SmartBracket mounting panel Installation kit Quick start guide

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