

FireProtect 2 (CO)

Wireless fire detector with heat CO sensor

FireProtect 2 SB (CO) Version with sealed batteries giving 10 years of operation	FireProtect 2 RB (CO) Version with replaceable batteries giving up to 7 years of operation
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Against invisible threats

FireProtect 2 is a next-gen detector designed for residential fire safety. The carbon monoxide sensor alarms before the concentration level become threatening and notify about danger with a built-in powerful siren and critical alerts from Ajax apps. Thought-out design, mounting, and in-app settings make installation straightforward and quick. Everything meets the most modern fire safety standards.

Versions with different battery type <ul style="list-style-type: none">• Replaceable• Sealed	Compliance EN 50291-1:2018
Interconnected alarm in 20 seconds	CO sensor With 10 years of service life
Informative in-app notifications	85 dB built-in siren
Two colours	Remote control and configuration
Up to 1,700 m range of communication with an Ajax hub	Jeweller radio communication Two-way communication, TDMA, Encryption, Frequency hopping, Power adjustment
SmartBracket with an adjustable rotation angle	Hassle-free installation <ul style="list-style-type: none">• QR code• SmartBracket• App
Operates as part of the Ajax system or without pairing with an Ajax hub	

Compatible hubs and range extenders

- [Hub Plus](#)

- [Hub 2 \(2G\)](#)
- [Hub 2 \(4G\)](#)
- [Hub 2 Plus](#)
- [Hub Hybrid \(2G\)](#)
- [Hub Hybrid \(4G\)](#)
- [ReX](#)
- [ReX 2](#)

Detection

Protects from invisible danger

Carbon monoxide (CO) is colorless, odorless, and otherwise imperceptible without a carbon monoxide detector, so poisoning can occur unnoticed. Even low concentrations can be enough to have a negative health impact, especially on those with chronic illnesses, pregnant, the elderly, and young children. High-level exposure can cause permanent damage or even death in a very short period of time. FireProtect 2 warns about a dangerous CO concentration at the level of 50 ppm before even the first signs of poisoning occur. A **built-in chemical sensor** is responsive to low concentrations and can accurately detect the CO level straight up to 10 years.

CO alarm

- 50 ppm in no more than 90 minutes
- 100 ppm in no more than 40 minutes
- 300 ppm in no more than 3 minutes

Autonomous operation

Stable performance for a decade

Cutting-edge engineering of hardware and software allowed us to implement advanced capabilities and offer autonomy in the size of the compact smart detector. FireProtect 2 complies with strict residential fire safety standards with long-lasting battery life while featuring constant data exchange with a hub and real-time analysis system to filter false alarms. The detector is available in two versions with different battery options to cover every market need.

SB version
10 years of operation

with non-replaceable sealed batteries

RB version
Up to 7 years of operation

with replaceable CR123A batteries

Low battery warning

The detector reports low batteries at least 30 days before its full discharge. Installers and users get notifications from their Ajax apps. Also, FireProtect 2 has an LED indicator and audible beeps for a low battery alert.

In-app notification	Audible indication	LED indication
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Alarm system

Always informed, everywhere

For residential fire alarm systems, informing people about danger is the priority. FireProtect 2 is equipped with a powerful 85 dB siren to eliminate the risk of missing an alarm. The detector uses impossible-to-ignore tones with different patterns to indicate an alarm or event, so it's easy to recognize the threat and react accordingly.

Different sound and LED indications

- Dangerous CO level
- Malfunction
- Low battery level
- End of life

Unleash the Ajax power

The Ajax smart and complex ecosystem brings new standards to the fire safety industry. FireProtect 2 is ready to protect your home without an Ajax hub but can do even more when connected to it. Intuitive Ajax apps provide remote setup and all detector information in real-time from anywhere the Internet is available, on a smartphone or PC. With instant notifications, there is no chance of missing a fire alert, and scenarios let you automate fire security to enhance home protection while you're away. A complete set with stable wireless communication – essential reliability tested over the years by nearly two million users.

Full monitoring for the building

Data-rich notifications

The system instantly notifies about alarms with the critical alerts from the Ajax apps. Security companies and users know exactly which device triggered, when and where it happened. The system controls each device state and reports if there is a malfunction or it's time to replace the batteries.

Detailed event log

The event log records 500 recent events within the system. The data is explicit with the device, time, and description of the event. It helps reconstruct the actual event and find the causes to obtain comprehensive information for emergency services or an insurance company.

Monitoring with PRO Desktop

With **PRO Desktop**, building administration staff can observe not only security but Ajax fire detectors for instant reaction to alarms. Device statuses, event log, batteries data – the CMS operator has a complete picture in one intuitive interface, all informative and centralized. The installation engineer can remotely change the settings and provide services in time.

Advanced automation for greater safety

Ajax fire detectors are a part of the Ajax ecosystem and can interact with automation devices and PhOD detectors of the MotionCam lineup through scenarios. In the case of a CO alarm, the **WallSwitch** relay turns on ventilation, and **Relay** unlocks emergency exits. At the same time, **MotionCam (PhOD)** sends pictures into Ajax apps to check whether there are people inside the premises who might be poisoned by carbon monoxide and need emergency assistance.. The result is a reliable combination of security and automation that works as a Swiss watch.

Photo evidence	Ventilation system control	Electric locks unlocking
To find out the situation at the protected facility and quickly respond to it.	To supply fresh air and reduce carbon monoxide concentration in the air.	To speed up people's evacuation and ease emergency and rescue services' access to the building.
CO detected > FireProtect 2 > MotionCam (PhOD) > Photos from the scene	CO detected > FireProtect 2 > WallSwitch > Ventilation on	CO detected > FireProtect 2 > Relay > Emergency exits unlocked

Unique wireless technologies

The Ajax system uses two-way secure radio communication based on the **Jeweller** proprietary protocol. It supports block cipher encryption and device authentication on every session with the hub to prevent sabotage, spoofing, or data theft.

Ajax wireless technology has **up to 1,700 meters** of radio signal communication range in an open space, making it on average longer than competing solutions from different manufacturers. Automatic power adjustment makes it energy efficient by not using the maximum power of radio transmitters in system devices on a regular basis. It is also more stable, using less noisy radio frequencies. Ajax hubs use radio hopping to protect against radio interference and signal interception. The system automatically changes frequency within a band and notifies the security company and users about the jamming.

Up to 1,700 meters of radio communication with a hub	Encrypted two-way radio communication	Notifications about jamming and connection loss
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Jeweller

Jeweller uses polling to display the real-time device status and transmits alarms, events, and all measured readings into the Ajax apps. Features encryption and authentication to prevent spoofing.

Scaled and comprehensive

For complex radio signal conditions like large houses with thick walls or warehouses with several buildings, there is the **ReX** range extender. It **boosts the range** of all Ajax devices and manages their communication with the hub via Jeweller. And **ReX 2** assures stable communication even through steel and concrete via **Ethernet** using the wire as the additional communication channel. Up to 5 range extenders can operate within one Ajax system to expand the network twice as big, covering underground parking, basements, and metal hangars.

- Up to 5 range extenders within one system
- Ethernet as an alternative communication channel

Effortless installation and maintenance

FireProtect 2 is ready to operate straight out of the box. 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.

The detector is maintenance-free. A self-test system automatically diagnoses the sensor and reports its state to the hub. Testing can also be run manually anytime in the app or by pressing the detector's front panel with any suitable item, either a hand or a mop handle.

Connection

Pairing with the security system via QR code

Installation

SmartBracket panel with an adjustable rotation angle – no need to disassemble the enclosure

Setup

Configuring and testing in mobile and desktop apps

Maintenance

A self-test system automatically diagnoses sensor state