



Ajax FireProtect 2 AC (Heat/Smoke/CO) Jeweller

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

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

Advanced hardware and software

- An interconnected alarm of all fire detectors at the facility in 20 seconds
- Built-in siren with a volume of 85 dB at a distance of 3 metres
- Ability to operate autonomously without an Ajax hub

OPERATING INFORMATION

Smoke detection

FireProtect 2 detects smoke and does not react to water vapour thanks to a dual-spectrum 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.

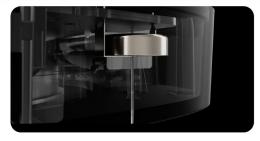


Detection of a rapid temperature rise

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.





Detection of dangerous CO concentration level

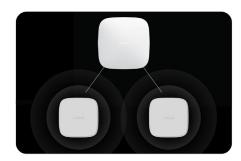
A built-in chemical sensor with a service life of at least 10 years is responsible for detecting a dangerous concentration of carbon monoxide in FireProtect 2.

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.

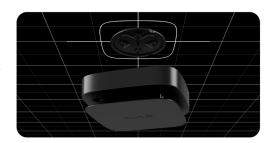
The detector supports manual testing mode. It is activated by pressing the device's front panel. The front panel has a mechanical button, which can be pressed either manually or with a floor mop. During the test, the built-in siren and testing of sensors are run. This allows the installer to test the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

Quick installation and set-up

- SmartBracket panel to mount the device without disassembling the enclosure
- Removable WAGO 221 connectors to secure the wires without a screwdriver
- A lock screen to secure the device on SmartBracket
- Pairing with a hub via QR code, with remote control and configuration within the app

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.











communication technology

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. Communication range up to 1,700 m In an open space.	Compatibility	Hubs Hub Plus Hub 2 (2G) Hub 2 (4G) Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G) Range extenders ReX ReX 2
Compliance with regulations	EN 14604:2005/AC:2008 EN 50291-1:2018 BS 5839 (part 6, grade D1) AS 3786:2014 BSI Kitemark Carbon Monoxide Alarms KM 797661 BSI Kitemark Smoke Alarms KM 797639	Carbon monoxide (CO) detection	Sensitive element chemical CO sensor CO alarm
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



TECHNICAL SPECIFICATION

Built-in siren	Anti sabotage protection	Tampering alarm
volume of 85 dB at a distance of 3 metres		Protection against spoofing device authentication
Interconnected fire alarm All fire detectors in the system turn on built-in sirens if at least one of the detectors registers an alarm.		Detection of communication failure within 15 minutes The time to detect communication loss depends on
The interconnected alarm is activated after no more than 20 seconds.		the number of undelivered data packages setting (specified in the Jeweller or Jeweller/Fibra settings). The polling interval is fixed at 300 seconds.
LED indication green is a power indication Lights up once every minute.	Power supply	
yellow is an indication of malfunctions		The detector is powered by 110-240 V~ mains and includes a sealed back-up battery. Even in a power outage, the detector continues to operate, ensuring quick and reliable fire detection throughout its 10-year lifespan.
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.		
Dimensions 122 × 122 × 54 mm Weight 318g	Complete set	FireProtect 2 AC (Heat/Smoke/CO) Jeweller SmartBracket mounting panel Installation kit 1 × CR 2/3 AA battery (sealed) 2 × WAGO 221-3 connector (preinstalled) Installation kit Quick start guide
Operating temperature range from 0°C to +50°C Operating humidity		
up to 80% Colours Black White		
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