

Tech specs

RESIDENCE LINE

FireProtect Plus Jeweller

Wireless fire detector with heat, smoke, and CO sensors. Version with replaceable batteries



Device compatibility

Check

Communication

Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

Learn more [>](#)

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 sales region.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,300 m

Between the device and a hub (or a range extender) in an open space.

Calculate radio communication range at the facility >

Encrypted communication

All stored and transmitted data are protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

Sensitive elements

Smoke sensor

Heat sensor

CO (carbon monoxide) sensor

Smoke detection

Sensitive element

photoelectric sensor

False alarm prevention

The HazeFlow software algorithm checks for smoke before activating the alarm. The system will ignore the first triggering and raise an alarm if the device detects the smoke again after 30 seconds during the second check.

Dangerous temperature detection

Sensitive element

thermistor

High temperature alarm

at temperatures above 60 °C

Temperature spike alarm

when the temperature rises more than 30 °C in 30 minutes or less

Carbon monoxide (CO) detection

Sensitive element

chemical CO sensor

Alarm by exceeding CO level

30 ppm (0.003%) – in 120 minutes and more

50 ppm (0.005%) – in 60–89 minutes

100 ppm (0.01%) – in 10–39 minutes

300 ppm (0.03%) – in 3 minutes

CO concentration of 400 ppm (0.04%) within 3 hours can be life-threatening. The detector stops notifying about the dangerous level of carbon monoxide when the concentration drops to 40 ppm (0.004%) within 1 minute.

Sensor service life

7 years

After 7 years of operation, the detector must be replaced with a new one.

Additional features

Built-in siren

85 dB volume at a distance of 3 meters

Sound notification of alarms. Active until the reason for triggering is eliminated or until the user disables the notification.

Interconnected fire detectors alarm

All fire detectors in the system turn on built-in sirens if at least one detector registers an alarm. An interconnected fire detectors alarm is activated within one “hub–detector” polling interval.

Learn more >

Indication

- LED
- sound

The indication shows the detector status and alarms.

[Learn more](#) >

Touch button on the detector's front panel

In normal mode, pressing the button starts the smoke chamber test. In the case of an alarm or malfunction, pressing the button turns off the detector sound notification.

Recommendations

The device is designed for indoor use only.

Sabotage protection

Tamper alarm

Notifications of attempts to detach the detector from the surface or remove it from the mounting panel.

[Learn more >](#)

Protection against spoofing

device authentication

Communication loss detection

after 36 s

Detection time depends on the Jeweller or Jeweller/Fibra settings.

[Learn more >](#)

Power supply

Batteries

2 × CR2 (pre-installed)

The main power supply. Up to 4 years of battery life.

CR2032 (pre-installed)

The backup power supply.

Enclosure

Dimensions

132 × 132 × 31 mm

Weight

220 g

Operating temperature range

from 0 °C to +65 °C

Operating humidity

up to 80%

Protection class

IP40

Colors

Black

White

Complete set

FireProtect Plus Jeweller

SmartBracket mounting panel

Installation kit

2 × CR2 battery (pre-installed)

CR2032 backup battery (pre-installed)

Quick start guide

Certification and compliance with standards



FireProtect Plus Jeweller



Additional information

Compliance with standards

[Learn more >](#)

User manual

[Learn more >](#)

Warranty

24 months

[Learn more >](#)

Subscribe


Subscribe to our emails about secure life. No spam.

[Subscribe](#)

Request extra help

 support@ajax.systems

 [@AjaxSystemsSupport_Bot](#)

 [Send a request](#)



Rating 4.8

4,500,000

people worldwide under Ajax protection

 [Suggest a feature](#)

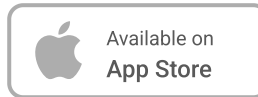


[Products](#)

[Software](#)

- [Intrusion protection](#)
- [Video surveillance](#)
- [Fire and life safety](#)
- [Comfort and automation](#)
- [All products](#)
- [Services](#)
- [System integrations](#)
- [Ajax Ready products](#)
- [Fibra wired protocol](#)
- [Ajax radio protocols](#)

- [Ajax Security System](#)
- [Ajax PRO: Tool for Engineers](#)
- [Ajax Desktop](#)
- [Ajax PRO Desktop](#)
- [Ajax TV](#)
- [Ajax Translator PRO](#)
- [Ajax Cloud Signaling](#)
- [Scenarios](#)



Solutions

- [Customer stories](#)
- [Solutions by facility type](#)
- [Commercial fire detection and alarm system](#)
- [Wireless Grade 3 solution](#)
- [Video surveillance solution](#)
- [Integration with Yale smart locks](#)
- [Upgrades and retrofits](#)
- [Why Ajax](#)
- [How it works](#)

Support

- [Manuals and articles](#)
- [Compliance with standards](#)

Tools

- [Ajax device compatibility](#)
- [CMS software compatibility](#)
- [Ajax Services availability](#)
- [Video storage calculator](#)
- [Video device calculator](#)
- [Battery life calculator](#)
- [Radio communication range calculator](#)
- [Switches and outlets configurator](#)
- [Fibra power supply calculator](#)
- [All web tools](#)

Monitoring solutions and integrations

- [Intrusion alarm monitoring](#)
- [Video monitoring and visual alarm verification](#)
- [Audio alarm verification](#)

Company

- [Blog](#)
- [About us](#)
- [Press page](#)

For partners

- [For partners](#)
- [Ajax Academy](#)
- [Partner Portal](#)

[Events](#)

[Career](#)

[Ajax Next](#)

[Reviews and feedback](#)

 [Србија](#) [Privacy policy](#) [Report a vulnerability](#) [GDPR White Paper](#) [NDAA Statement](#) [Cookie policy](#)

[Anti-Spam Policy](#) [Ajax Services T&C](#) [End user agreement](#) [Warranty](#)

© 2026 AJAX SYSTEMS CH. All rights reserved