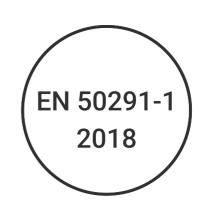
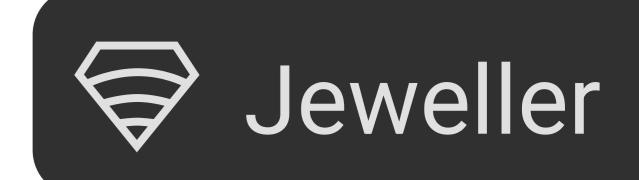
## 

## FireProtect 2 (Heat/CO) Jeweller

Wireless fire detector with heat 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.



Find the detailed information

on the device at:



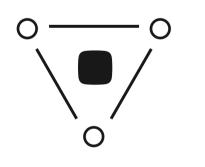
support.ajax.systems/en/manuals/fireprotect-2-heat-co/



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

- FireProtect 2 RB (Heat/CO) Jeweller
  - FireProtect 2 SB (Heat/CO) Jeweller

## Key features



Advanced hardware and software

- 1. An interconnected alarm of all fire detectors at the facility in 20 seconds
- 2. Built-in siren with a volume of 85 dB at a distance of 3 meters
- 3. Ability to operate autonomously without an Ajax hub
- 4. 10 years of operation with sealed batteries, and up to 7 years with replaceable batteries

#### Easy to install and configure

1. SmartBracket mounting panel with the ability to align the detector after installation

- 2. Remote control and configuring via Ajax apps
- 3. Pairing with the Ajax hub via QR code

## **Operating principle**

# 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 by 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

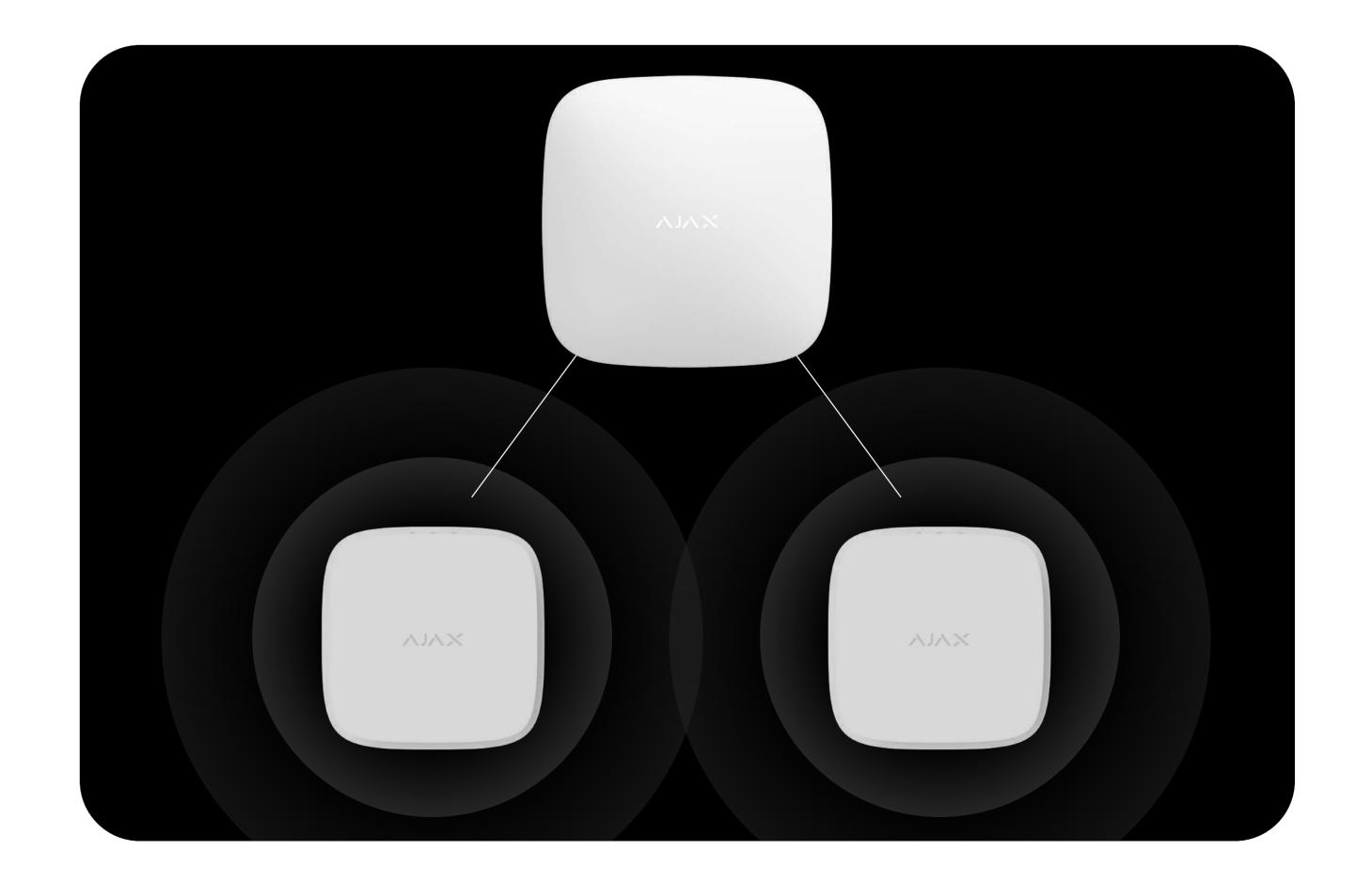
A built-in chemical sensor with a service life of at least 10 years is responsible for detecting a dangerous concentration of carbon monoxide in FireProtect 2.

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 about 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

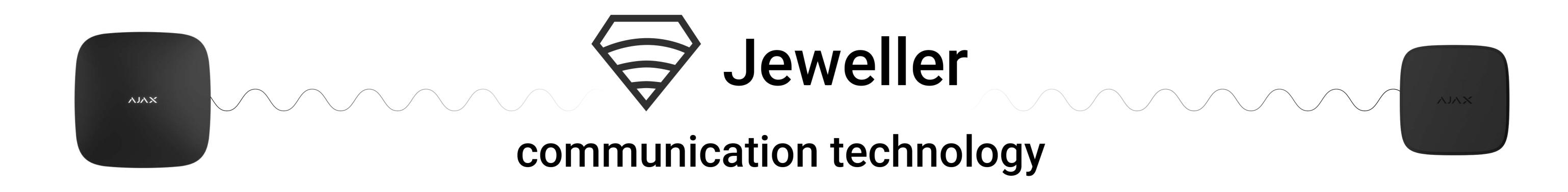
FireProtect 2 (Heat/CO) is available in two versions: with replaceable or sealed batteries. Detectors with replaceable batteries operate for up to 7 years with pre-installed CR123A batteries. After discharge, the batteries can be replaced with new ones. The model with sealed lithium batteries operates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



#### should be replaced with a new one.



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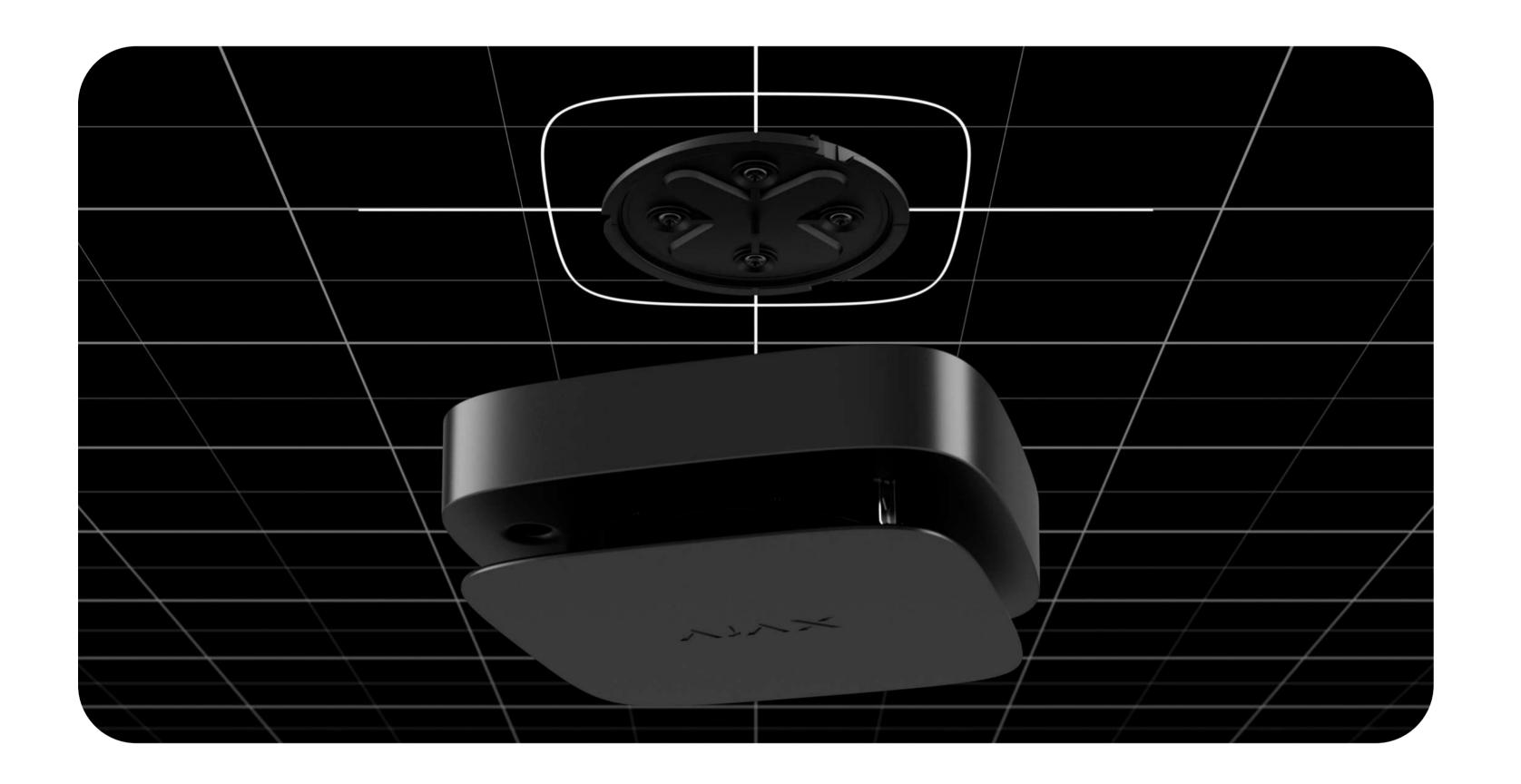


**Jeweller** is a radio protocol for fast and reliable two-way communication between hubs and connected devices. The protocol provides a wireless radio communication range with FireProtect 2 up to 1,700 meters. This communication range allows you to install detectors even on large-scale objects.

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.

### 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.

### Technical specifications

Communication with the hub or range extender Jeweller
 communication
 technology

Frequency bands 866.0-866.5 MHz Compatibility

Hub Plus Hub 2 (2G) Hub 2 (4G) Hub 2 Plus Hub Hybrid (2G)

000.U-000.J IVINZ	пир пурни (2G)
868.0–868.6 MHz	Hub Hybrid (4G)
868.7–869.2 MHz	
905.0–926.5 MHz	Range extenders
915.85–926.5 MHz	ReX
921.0-922.0 MHz	ReX 2
Depends on the region	
of sale.	

Communication with the hub or range extender	Maximum effective radiated power (ERP) up to 20 mW	Compliance with regulations	EN 54-5:2017+A1:2018 EN 50291-1:2018
	<b>Communication range</b> up to 1,700 m In an open space.		
Heat detection	Sensitive element two thermistors	Carbon monoxide (CO) detection	Sensitive element chemical CO sensor

Additional features	Ruilt-in ciron	Anti-sabotade	Tampering alarm
	<ul> <li>exceeding +64°C</li> </ul>		10 years
	within 1 minute		Sensor service life
	in temperature		
	<ul> <li>10°C increase</li> </ul>		more than 3 minutes
	Heat alarm		<ul> <li>300 ppm (0.03%) in no</li> </ul>
	Stanuaru.		more than 40 minutes
	standard.		<ul> <li>100 ppm (0.01%) in no</li> </ul>
	detectors of EN 54-5		more than 90 minutes
	for heat A1R-class		<ul> <li>50 ppm (0.005%) in no</li> </ul>
	to the requirements		CO alarm
	According		
			chemical CO Sensor

Auditional leatures

Built-in siren
volume of 85 dB
at a distance of 3 meters
Interconnected 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.

protection

rampening alarm

Protection against spoofing device authentication

Detection of communication failure within 15 minutes The time to detect communication loss depends on the number of undelivered data packages setting (specified

LED indicationin the Jeweller or Jeweller/green is a powerFibra settings). The pollingindicationinterval is fixed at 300Lights up once everyseconds.minute.Seconds.

Additional features

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 Enclosure and installation

Dimensions 43.5 x 86 x 86 mm

Weight 149 g For RB version.

145 g For SB version.

Operating temperature range from 0°C to +50°C

**Operating humidity** up to 80%

Protection class IP20

Colours Black White

	off the detector sound notification.		
Power supply	RB version	Complete set	RB version
	2 replaceable CR123A		FireProtect 2 RB (Heat/CO)
	batteries		Jeweller
	Up to 7 years of battery		SmartBracket mounting
	life.		panel
			Installation kit
	SB version		2 × CR123A batteries
	2 sealed lithium batteries		Pre-installed.
	10 years of battery life.		Quick start guide

**CR** vorcion

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FireProtect 2 SB (Heat/CO) Jeweller
Jeweller
SmartBracket mounting
panel
Installation kit
Quick start guide