

FireProtect 2 AC (Heat) Jeweller user manual

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FireProtect 2 AC (Heat) Jeweller is a wireless mains-powered fire detector with a backup battery and a built-in siren. Designed for indoor installation. Detects temperature rise.

The fire detector is also available without an external power supply in two modifications: [FireProtect 2 SB \(Heat\)](#) with sealed batteries that last 10 years, and [FireProtect 2 RB \(Heat\)](#) with replaceable batteries that last up to 7 years.

The detector operates as part of the Ajax system, communicating with the hub via the [Jeweller](#) secure radio protocol. The hub communication range is up to 1,700 m without obstacles.

[Buy FireProtect 2 AC \(Heat\)](#)

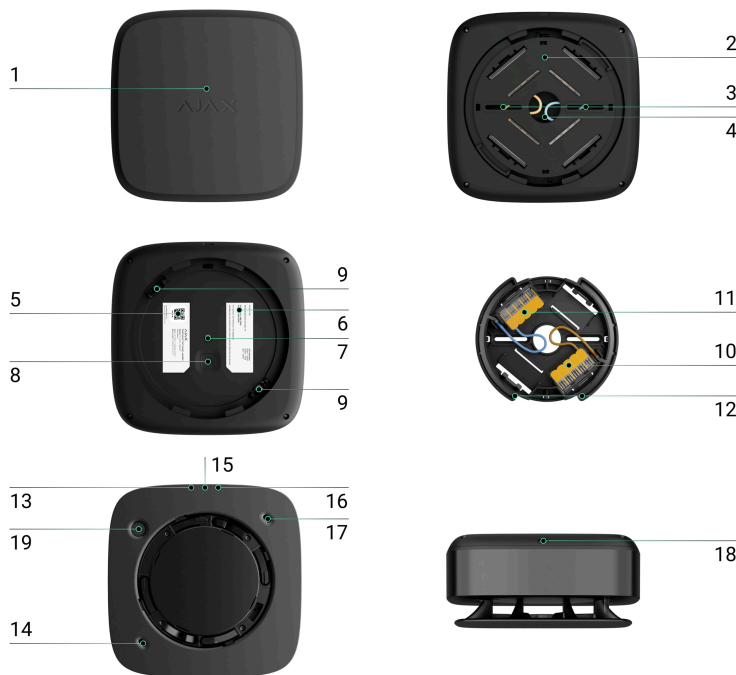


Versions of the detector with other sensor combinations are also available. All Ajax fire detectors are [available here](#).

CableTrunk is available for the FireProtect 2 AC detectors for convenient cable routing. It allows you to neatly route the fire detector's power cable from the standard cable trunking. Use CableTrunk when it is impossible to route the power cable from the back of the detector and hide it inside walls or ceiling.

[Learn more about CableTrunk](#)

Functional elements



1. The front panel of the detector with a [Test/Mute button](#). To activate the button, press the center of the panel.
2. SmartBracket mounting panel with protective cover. To remove the panel, insert a screwdriver into the appropriate hole (functional element 18) and turn SmartBracket counterclockwise.
3. Holes to attach SmartBracket to the surface.

4. A hole to run the wires.
5. Device QR code and ID (serial number). It is used to add the detector to the Ajax system.
6. Detector certification information.
7. Tamper button. Triggers when an attempt is made to detach the detector from the surface or remove it from the mounting panel.
8. Power button.
9. Detector's contacts.
10. Power supply phase (L) connection terminals WAGO 221.
11. Power supply neutral (N) connection terminals WAGO 221.
12. Contacts on the SmartBracket mounting panel.
13. Green LED indicator.
14. First thermistor. Detects dangerous temperatures.
15. Yellow LED indicator.
16. Red LED indicator.
17. Second thermistor. Detects dangerous temperatures.
18. Hole to insert a screwdriver.
19. Siren.

Compatible hubs and range extenders

The detector is compatible only with Ajax hubs with the firmware OS Malevich 2.18 and later. Hub (4G) Jeweller must have OS Malevich 2.28 or later to support this detector.

Check devices compatibility

The detector also can work without a hub.

Operating principle

0:00 / 0:12

FireProtect 2 AC (Heat) Jeweller is a wireless fire detector designed for indoor installation. It can operate from a 110-240 V~, 50/60 Hz power supply, and has a built-in backup battery.



The **Battery Life Optimization** feature must be enabled to ensure such a lifetime for a built-in backup battery.

The detector is equipped with a siren (piezoelectric buzzer) for audible notification of alarms and events with a volume of up to 85 dB (at a distance of 3 m from the detector). The detector is always active and reacts to a fire 24/7, regardless of the system's security mode.

FireProtect 2 is protected by a tamper button. The tamper informs if someone tries to remove the detector from the SmartBracket mounting panel. The detector responds with LED indication. The users receive notifications via Ajax apps while the monitoring station processes the alarm.

Ajax automation devices respond to FireProtect 2 alarms and perform user-defined actions using automation scenarios. For example, the WallSwitch relay can turn off the ventilation system and turn on emergency lighting when an alarm occurs.

Heat sensor

Two built-in class A1R thermistors detect a rapid rise and exceeding the temperature threshold in FireProtect 2. Such thermistors notify of alarms when a rapid temperature rise or static temperature is detected in the range of +54°C to +65°C.

FireProtect 2 reports that the temperature threshold has been exceeded as soon as its value exceeds +64°C. The detector reports a rapid temperature rise if the indicator increases by 10°C within one minute. If the temperature indicator rises sharply by 20°C or more, the detector alerts immediately.

Test/Mute button

To activate the **Test/Mute button**, press lightly on the centre of the front panel with your hand. Use a suitable item (mop handle) if you can't reach up the detector with your hand. **Test/Mute** is a mechanical button placed under the front panel of the detector.

The button performs several functions:

- In normal mode, it starts the detector self-test.
- When operating in a network of fire detectors that propagate an interconnected fire alarm without a hub, it starts a network coverage area testing.
- In case of an alarm, it mutes the detector alarm or Interconnected Alarm of all fire detectors in the system for 10 minutes.
- In case of a fault or low battery level, it mutes the sound and LED indication for 12 hours.



To run the self-test or network coverage area testing, wait at least 3 minutes after turning on the detector.

Interconnected Fire Detectors Alarm*

All FireProtect 2 AC detectors in the system can synchronously notify about the fire alarm. There are two ways: **primary** and **fallback** (both work in parallel).

In case of danger, the initiating detector sends a fire alarm to the hub. The hub initiates the **primary** interconnect: all fire detectors will activate the built-in sirens in 20 seconds. Meanwhile, the initiating detector activates the **fallback** interconnection, directly sending the alarm to other fire detectors. Even if the connection with the hub is lost, raising the interconnected fire alarm takes a minute.



The fallback interconnection functionality is available for hubs with OS Malevich 2.19 and higher.

The FireProtect 2 detectors have different sound and LED indications of alarm types to make it easier for users to distinguish between them. In the case of interconnected alarm, all FireProtect 2 detectors indicate exactly the alarm type detected by the initiating detector.

How to set Interconnected Fire Detectors Alarm

How to mute Interconnected Fire Detectors Alarm

***To comply with AS3786:2014, EN 14604, and EN 50291 standards, enable the fallback interconnection in the hub settings.**

Sending events to the monitoring station

An Ajax system can transmit alarms to both PRO Desktop monitoring app and the CMS in the formats of **SurGard (Contact ID)**, **SIA (DC-09)**, **ADEMCO 685**, and other protocols.

FireProtect 2 AC (Heat) can transmit the following events:

1. Alarm caused by a rapid rise in temperature. Restoration.

2. Alarm caused by exceeding the threshold temperature. Restoration.
3. Tamper alarm and restoration.
4. Loss/restoration of connection with the hub.
5. Permanent deactivation/activation of the detector.

When an alarm is received, the operator at the security company's CMS knows what happened and precisely where to dispatch a rapid response team. The addressability of Ajax devices allows sending events to PRO Desktop or the CMS, including the device type, its name, security group, and virtual room. Note that the list of transmitted parameters may vary depending on the CMS type and its communication protocol.



Check the device ID and the loop (zone) number in the device [States](#) via the app.

Adding to the system

Before adding a device

1. Install the [Ajax app](#).
2. Log in to your [account](#) or create a new one.
3. Select a space or create a new one.

[What is a space](#)

[How to create a space](#)



The **space** functionality is available for apps of such versions or later:

- Ajax Security System 3.0 for iOS;
- Ajax Security System 3.0 for Android;

- Ajax PRO: Tool for Engineers 2.0 for iOS;
- Ajax PRO: Tool for Engineers 2.0 for Android;
- Ajax PRO Desktop 4.0 for macOS;
- Ajax PRO Desktop 4.0 for Windows.

4. Add at least one virtual room.

5. Add a compatible hub to the space. Ensure the hub is switched on and has internet access via Ethernet, Wi-Fi, and/or mobile network.

6. Ensure the space is disarmed, and the hub is not starting an update by checking statuses in the Ajax app.




Only a PRO or a space admin with the rights to configure the system can add a device to the hub.

Types of accounts and their rights

The detector must be within the coverage area of the hub radio network. To operate via the radio signal range extender, first pair the detector with the hub and then with the range extender. You can do this in the range extender settings in the Ajax app.

How to pair FireProtect 2 with a hub

1. Open the Ajax app and select the hub to add the detector.
2. Go to the **Devices**  tab and click **Add device**.
3. Name the detector, then scan or manually input the QR code (located on the detector and the package box). Next, select a room and a group (if Group Mode is enabled).



4. Click **Add**.



If you've reached the maximum number of devices the hub can support (depending on the hub model), you'll receive a notification when attempting to add another device.

5. Turn on the detector by holding the power button for 3 seconds. The hub connection request is sent only if the detector is enabled. If the detector fails to pair with the hub, try again in 5 seconds.



The hub and the device operating at different radio frequencies are incompatible. The device frequency range may vary by region. We recommend purchasing and using Ajax devices in the same region. You can verify the range of operating radio frequencies with the technical support service.

Once added, FireProtect 2 appears in the hub device list in the Ajax app. Device status update depends on the ping interval set in the **Jeweller** or **Jeweller/Fibra** settings. The default value is 36 seconds.



FireProtect 2 works with one hub. When connected to a new hub, the device stops sending events to the previous one. Adding the detector to a new hub does not automatically remove it from the device list of the previous hub. This must be done through the Ajax app.

Autonomous operation mode

FireProtect 2 detectors can be used autonomously without connecting to an Ajax hub. In this case, the detector notifies of fire with only a built-in siren and LED indication. Users don't receive notifications on any Ajax apps, including Ajax Translator, or PRO Desktop.

How to configure the autonomous operation mode

Indication

0:00 / 0:04

LEDs and the built-in siren of the detector can report alarms as well as certain states of the detector.

LED indication	Sound indication	Event	Notes
The red LED flashes continuously.	The siren sounds in time with the LED indication.	Alarm by: <ul style="list-style-type: none">• rapid temperature rise;• temperature threshold exceeded.	<p>The detector stops alarming as soon as its sources are eliminated.</p> <p>Also, you can mute the alarm by pressing the <u>Test/Mute button</u> or in the Ajax app.</p> <p>The LED and sound indications resume</p>

			if the source of the alarm is still present after the muting timer (10 minutes) has expired.
The red LED flashes every 4 seconds.	No.	Muted alarm.	The detector stops alarming as soon as its source is eliminated.
The red LED flashes 2 times in a row.	No.	Restore after alarm.	If the source of the alarm is removed, the detector is restored automatically.
The yellow LED lights up for 1 second.	No.	Tamper alarm. The detector is removed from the SmartBracket mounting panel.	
The green LED lights up for 1 second.	No.	The detector is installed on the SmartBracket mounting panel.	Turns on when the tamper is triggered.
Green, yellow, and red LEDs light up in turn, then go off.	No.	Turning the detector on.	To turn on the detector, hold the power button for 1 second.
Green, yellow, and red LEDs light up at the same time, then go off in reverse order.	No.	Turning the detector off.	To turn off the detector, hold the power button for 2 seconds.
The green LED is permanently on.	No.	Connection to the hub in progress.	The indication turns off after the detector is connected to the hub.
The green LED flashes 6 times in a row.	No.	The detector has been removed from the hub.	The indication turns on when the detector receives information that it

			has been removed from the hub.
The green LED is constantly on.	No.	The detector operates from an external power supply.	<p>The indication is present when the detector is on and the tamper status is OK (the detector is installed on the SmartBracket mounting panel).</p> <p>There is no indication when the detector switches to the <u>Jeweller Signal Strength Test</u> mode.</p>
The green LED flashes once per minute.	No.	The detector is powered by a backup battery. The detector does not have an external power supply.	<p>The indication is present when the detector is on and the tamper status is OK (the detector is installed on the SmartBracket mounting panel).</p> <p>There is no indication when the detector switches to the <u>Jeweller Signal Strength Test</u> mode.</p>
The yellow LED flashes 2 times in a row every minute.	The siren beeps in time with the LED indication every minute.	Malfunction detected.	<p>All malfunctions are displayed in the detector <u>states</u> in Ajax apps. Fields with malfunctions are highlighted in red.</p> <p>If the detector needs to be repaired, contact</p>

			our Technical Support .
The yellow LED flashes once per minute.	The siren beeps in time with the LED indication once per minute.	Low backup battery level.	The detector should be replaced with a new one after the batteries are discharged.
The yellow LED constantly flashes.	No.	The backup battery is completely discharged.	The detector must be replaced with a new one after the batteries are discharged.
The red LED flashes 5 times.	The siren beeps 5 times.	Performing a self-test.	The test can be started by pressing the Test/Mute button or in the detector settings in the Ajax app.
Green, yellow, and red LEDs flash at the same time.	No.	The detector decides in which role it will switch to the pairing mode: master or slave.	<p>The indication turns on when the power button is pressed 3 times on the detector that is switched on and not added to any hub. The indication lasts up to 10 seconds.</p> <p>The detector switches to the pairing mode to set up a network of detectors that can propagate an interconnected fire alarm without the hub.</p> <p>Learn more</p>
Green, yellow, and red LEDs light up and go off in turn. Then, light up and	No.	The detector becomes a master after switching to the pairing mode.	The indication turns on when the detector chooses its role after switching

go out in reverse order.			<p>to the pairing mode without the hub. It turns off when the network of detectors is formed.</p> <p>Learn more</p>
The green LED flashes every 2 seconds.	No.	The detector becomes a slave after switching to the pairing mode.	<p>The indication turns on when the detector chooses its role after switching to the pairing mode without the hub. It turns off when the network of detectors is formed.</p> <p>Learn more</p>
All LEDs flash 3 times.	No.	Removing the device from the network of fire detectors and resetting its settings.	<p>The indication turns on after pressing the power and Test/Mute buttons on the switched-on detector.</p> <p>It is possible to reset the detector added to the hub in such a way only if there is no connection between the hub and the detector.</p> <p>Learn more</p>
The yellow LED flashes 3 times.	No.	Failure when adding the detector in the pairing mode without the hub.	<p>The indication turns on after the detector switches to the pairing mode if:</p> <ul style="list-style-type: none"> • The detector is added to the hub.

			<ul style="list-style-type: none">• There are already 50 fire detectors in the network.• The slave detector is within the coverage area of two master detectors in the pairing mode.• There is another fault when adding. <p>Learn more</p>
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Detector testing

Functionality testing

The test allows you to check the status of the detector's sensors. You can run it in two ways: by pressing the **Test/Mute button** of the detector and in Ajax apps.





To run the self-test, wait at least 3 minutes after turning on the detector.



If the detector is in an alarm state, the self-test is not available.

To run the test using the Test/Mute button, press the center of the front panel and hold it for 1.5 seconds.

To run the test in the Ajax app:

1. Open the Ajax app.
2. Select the hub if you have several of them or if you are using the [Ajax PRO app](#).
3. Go to the **Devices**  tab.
4. Select **FireProtect 2 (Heat)**.
5. Go to the settings by clicking on the gear icon .
6. Click on the **Self-test** field.

After starting the test, the detector's red LED flashes 5 times in a row. The detector's siren activated simultaneously with an LED indication. When the test is over, users receive a notification about the detector state in Ajax apps.

The detector also notifies about the test result with sound and LED indications. If the test is failed and a **malfunction is detected**, the detector starts to indicate a malfunction 3 seconds after the test is begun: the yellow LED flashes twice, and the siren beeps simultaneously with the LED indication.



The self-test does not start immediately, but no later than 30 seconds after pressing the **Test/Mute** button or running from the Ajax app.

To stop a self-test, press the **Test/Mute button** again.





We do not recommend using the detector if no sound and LED indications occur during the self-test. Contact our [Technical Support](#).

How to test FireProtect 2

Testing at the installation spot

An Ajax system provides several tests to select the correct installation place of devices. **Jeweller Signal Strength Test** is available for FireProtect 2. The test determines the strength and stability of the signal at the intended location of the device.

To run the test in the Ajax app:


1. Select the hub if you have several of them or if you are using the [Ajax PRO app](#).
2. Go to the **Devices**  tab.
3. Select **FireProtect 2 (Heat)**.
4. Go to the settings by clicking on the gear icon .
5. Select **Jeweller Signal Strength Test**.
6. Perform the test following the tips in the app.


















The test does not start immediately, but the waiting time does not exceed the duration of one detector ping interval. The default value is 36 seconds. You can change the detector ping interval in the **Jeweller** (or **Jeweller/Fibra**) menu in the hub settings.

Icons

The icons in the app display some **FireProtect 2** states. To access them:

1. Sign in to the [Ajax app](#).
2. Select a hub.
3. Go to the **Devices**  tab.


Icon	Meaning
	Jeweller signal strength between the detector and the hub or radio signal range extender. The recommended value is two or three bars.

	Learn more
	The detector operates from an external power supply.
	The detector is powered by a backup battery. Connect the external power supply.
	The detector battery is low. Replace the device.
	<p>The Interconnected Fire Detectors Alarm feature is activated.</p> <p>Learn more</p>
	<p>The detector operates in the Always Active mode.</p> <p>The icon is displayed permanently. FireProtect 2 is always active and responds to a fire 24/7, regardless of the system's security mode.</p> <p>Learn more</p>
	The detector operates through the radio signal range extender .
	<p>The detector is deactivated.</p> <p>Learn more</p>
	The detector has detected a rapid temperature rise.
	The detector has detected that the temperature threshold has been exceeded.
	The detector was removed from the SmartBracket mounting panel, or the enclosure integrity was violated in another way. Check the mounting of the detector.
	The detector's siren activates an alarm sound.
	Malfunction detected. The list of malfunctions is available in the detector states .
	<p>The detector has tamper triggering events deactivated.</p> <p>Learn more</p>
	The device has lost connection with the hub or the hub has lost connection with the Ajax Cloud server.

<div>Not transferred</div>	<p>The device has not been transferred to the new hub.</p> <p>Learn more</p>
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States

The states include information about the device and its operating parameters. You can find the states of **FireProtect 2** in Ajax apps:

1. Sign in to the [Ajax app](#).
2. Select a hub.
3. Go to the **Devices**  tab.
4. Select **FireProtect 2** from the list.

Ajax apps display three FireProtect 2 temperature parameters. The first one shows the air temperature in the room where the detector is installed. The other two (**Temperature Threshold Exceeded** and **Rapid Temperature Rise**) show whether fire-related temperature changes are detected. These values may differ from the temperature in the room.

Parameter	Meaning
Data import	<p>Displays the error when transferring data to the new hub:</p> <ul style="list-style-type: none"> • Failed — the device has not been transferred to the new hub. <p>Learn more</p>
Temperature	Air temperature in the room where FireProtect 2 is installed. Measured in Celsius or Fahrenheit degrees depending on the app settings.

	<p>In the normal state, the temperature value is displayed in black. When the temperature rises, the field is highlighted with red.</p> <p>You can create a scenario by temperature to control automation devices.</p> <p>Learn more</p>
Jeweller Signal Strength	<p>Jeweller signal strength between FireProtect 2 and the hub or radio signal range extender.</p> <p>The recommended value is two or three bars.</p>
Connection via Jeweller	<p>Connection status between FireProtect 2 and the hub or range extender via Jeweller:</p> <ul style="list-style-type: none"> • Online — the detector is connected to the hub or range extender. Normal state. • Offline — no connection between the detector and the hub or range extender. Check the detector connection.
ReX	<p>Connection status between the device and the radio signal range extender.</p>



Battery Charge	<p>The backup battery charge level of the device:</p> <ul style="list-style-type: none"> • OK — the backup battery has sufficient charge. Normal state. • Battery low — the backup battery is discharged. <p>When the battery is discharged, users and the security company monitoring station receive a notification.</p> <p>After the low battery notification, the detector is able to operate for another month under normal conditions.</p>
External Power	<p>External power supply connection status:</p> <ul style="list-style-type: none"> • Connected — the detector is connected to an external power supply. • Disconnected — no external power supply. Check the connection of the detector to the external power supply.
Lid	<p>The status of the detector's tamper that responds to detachment of the device from the surface or opening of the enclosure:</p> <ul style="list-style-type: none"> • Open — the detector is removed from the SmartBracket mounting panel, or the enclosure integrity is violated in another way. Check the mounting of the detector. • Closed — the detector is installed on the SmartBracket mounting panel. The integrity of the device enclosure and the mounting panel is not violated. Normal state. <p>Learn more</p>
Temperature Threshold Exceeded	<p>Alarm state if temperature threshold is exceeded:</p>

	<ul style="list-style-type: none"> • No — normal state, the detector does not detect temperature threshold exceeding. • Alarm — the detector has detected a temperature threshold exceeding. <p>If temperature threshold exceeding is detected, the text field highlights red.</p> <p>Learn more</p>
Rapid Temperature Rise	<p>Alarm by the rapid temperature rise:</p> <ul style="list-style-type: none"> • No — normal state, the detector does not detect a rapid temperature rise. • Alarm — the detector has detected a rapid temperature rise. <p>If a rapid temperature rise is detected, the text field highlights red.</p> <p>Learn more</p>

Permanent Deactivation	<p>It shows the status of the device's permanent deactivation setting:</p> <ul style="list-style-type: none"> • No – the device operates in normal mode and transmits all events. • Entirely – the device does not execute system commands, does not participate in automation scenarios, and its alarms and other notifications are ignored by the system. In this case, the detector will continue to operate autonomously and indicate alarms using the built-in siren. • Lid only – the system ignores notifications triggered by the device's tamper. <p>Learn more</p>
Firmware	FireProtect 2 firmware version.
Device ID	ID (serial number) of FireProtect 2. Also available on the detector's enclosure (under the mounting panel) below the QR code and on the packaging box.
Device No.	The FireProtect 2 loop (zone) number. Events are sent to the CMS with this number.

Settings

To change **FireProtect 2** settings, in the Ajax app:

1. Go to the **Devices**  tab.
2. Select **FireProtect 2** from the list.
3. Go to **Settings** by clicking on the icon .
4. Set the required parameters.

5. Click **Back** to save the new settings.

Settings	Meaning
Name	<p>Detector name. Displayed in the list of hub devices, text of SMS and notifications in the events feed.</p> <p>To change the name, click on the text field. The name can contain up to 12 Cyrillic characters or up to 24 Latin characters.</p>
Room	<p>Selecting the virtual room to which FireProtect 2 is assigned.</p> <p>The room name is displayed in the SMS text and notifications in the events feed.</p> <p>To change the room, click on the field.</p>
Rapid Temperature Rise Alarm	<p>When this option is enabled, the system raises an alarm if the device detects a rapid rise in temperature.</p>
Alert with a siren	
If temperature threshold exceeded	<p>When this option is enabled, the <u>Ajax sirens</u> connected to the system are activated when the detector detects a temperature threshold exceeding.</p>
If rapid temperature rise detected	<p>When this option is enabled, the <u>Ajax sirens</u> connected to the system are activated when the detector detects a rapid temperature rise.</p>
LED indication	
Inform of external power availability	<p>When this option is enabled, the green LED lights up continuously when power is connected and flashes once a minute when disconnected.</p>
Jeweller Signal Strength Test	<p>Switching the detector to the Jeweller Signal Strength Test mode. The test helps</p>

	<p>determine the optimal place for installing FireProtect 2.</p> <p>The test shows the signal strength between the detector and the hub or range extender via the Jeweller wireless data transfer protocol.</p> <p>The recommended value is two or three bars.</p> <p>Learn more</p>
Device Self-test	<p>Running a detector self-test.</p> <p>Learn more</p>
User Guide	<p>This opens FireProtect 2 user manual in the Ajax app.</p>
Permanent Deactivation	<p>Allowing to deactivate the device without removing it from the system. Three options are available:</p> <ul style="list-style-type: none"> • No – the device operates in normal mode. • Entirely – the detector does not execute system commands, does not participate in automation scenarios, and does not send notifications of alarms, malfunctions, and other events to the CMS and system users. In this case, the detector will continue to operate autonomously and indicate alarms using the built-in siren. • Lid only – detector's tamper alarm notifications are disabled. <p>Learn more</p>
Unpair Device	<p>Unpairs FireProtect 2 from the hub and deletes its settings.</p>

Selecting an installation place



The detector is designed for indoor installation only.

The coverage area of one FireProtect 2 AC (Heat) is 50 to 60 m², depending on the type of premises.

The detector should be installed in every room. The detector is placed in the center of the ceiling at a distance of 30 cm from light fixtures, chandeliers, or any other decorative objects that may interfere with alarm detection.

If there are beams on the ceiling protruding 30 cm or more, the detector must be installed between every two beams. If the beams protrude by less than 30 cm, installation on a beam in the central part of the ceiling is allowed.

In halls or narrow corridors, detectors should be installed at a distance of no more than 7.5 m from each other.

If the ceiling is sloping, the detector is installed at a distance of 60 cm from the top point of the ceiling. To select an installation place, draw a straight line down from the top of the ceiling. Then, draw a perpendicular from this line to the sloping part of the ceiling. The detector is installed at this point.



We do not recommend mounting the detector on a wall. This installation is acceptable if closely spaced beams or other obstacles interfere with the installation of the detector. Wall mounting is possible only if the detector is placed at a distance of 15–30 cm below the ceiling but above the doorways.





When installing on the wall, ensure the LEDs are visible to the user. It means FireProtect 2 must be installed upside down.

When choosing the location of the detector, consider the parameters that affect its operation:

- Jeweller signal strength.
- Distance between the detector and the hub.
- Obstacles that affect the radio signal: walls, interfloor ceilings, big objects in the room.

Consider the placement recommendations when designing your Ajax system for the object. The security system must be designed and installed by specialists. The list of recommended Ajax partners is [available here](#).

Signal strength

The Jeweller signal strength is determined by the ratio of the number of undelivered/corrupted data packets that are exchanged between the hub and the detector to expected ones within a certain period of time. Signal strength is indicated by the icon  on the **Devices**  tab:

- **Three bars** — excellent signal strength.
- **Two bars** — good signal strength.
- **One bar** — low signal strength; stable operation is not guaranteed.
- **Crossed out icon** — no signal; stable operation is not guaranteed.

Check the Jeweller signal strength at the installation site. If the signal strength is as low as one or zero bars, we cannot guarantee stable operation of the device. In this case, move the device. Repositioning even by 20 cm can significantly improve the signal reception.

If, after relocation, the detector still has a low or unstable signal strength, use a [radio signal range extender](#).

How not to install the detector

- Outdoors. This can lead to the detector failure.
- In places with low or unstable Jeweller signal strength. This can result in connection loss.
- Inside premises with temperature and humidity outside the [permissible limits](#). This could damage the detector.
- In places with fast air circulation. For example, near fans, vents, open windows, or doors. This may interfere with fire detection.
- Opposite any objects with rapidly changing temperature. For example, electric and gas heaters. This can lead to false alarms.
- In the corners of the room. This may interfere with fire detection.
- In bathrooms, showers, or other areas where the temperature changes rapidly. This can lead to false alarms.

- Near lighting fixtures, decorations, and other interior items that may interfere with the circulation of air in the room. This may interfere with fire detection.
- On surfaces that are usually warmer or colder than the rest of the room. For example, roof traps. Temperature fluctuations can interfere with fire detection.
- In high or inconvenient places. Access to the Test/Mute button is required to mute the alarm and test the detector if it's used without connection to a hub.

Installation



Make sure that you have selected the optimal installation place and it complies with the requirements of this manual.



During installation and operation of the Ajax security system, adhere to the rules and requirements of regulatory legal acts on electrical safety. Do not disassemble the device while it is energized or use it with a damaged power cable.

Only a competent specialist should install this device.

FireProtect 2 AC detectors do not require an additional surface mount pattress for installation. The detector's mounting panel is designed for installation on any surface and includes the WAGO terminals for connecting the power cables.

The detector can be installed directly on the surface or using an accessory **CableTrunk**. Use CableTrunk when it is impossible to route the power cable from the back of the detector and hide it inside walls or ceiling.

CableTrunk is not included in the detector's complete set and should be purchased separately.

To install the detector:

1. Remove the SmartBracket mounting panel from the detector. To remove the panel, insert a screwdriver into the appropriate hole and turn SmartBracket counterclockwise.
2. Fix the SmartBracket panel to a surface using temporary fasteners. Secure the detector on the SmartBracket mounting panel. To do this, turn the detector clockwise.
3. Run the Jeweller Signal Strength Test. The recommended value is two or three bars.



If the signal strength is a single bar or lower, we cannot guarantee the stable operation of the detector. Consider relocating the device as repositioning even by 20 cm can significantly improve the signal strength. If there is still low or unstable signal after the relocation, use a radio signal range extender.

4. Remove the detector from the mounting panel. Remove SmartBracket from the surface.
5. Remove the protective cover from the mounting panel. To do this, turn the protective cover counterclockwise as shown below.



6. Power off the cable that you will connect to the detector. Route the external power supply cable through the hole in the attachment panel.
7. Remove the WAGO terminals from the mounting panel.
8. Connect the wires to the appropriate WAGO terminals: power phase — to **L**, neutral — to **N**.
9. Secure the WAGO terminals in the mounting panel. Organize the wires and secure the protective cover.



10. Attach the SmartBracket panel with the bundled screws using all fixation points. When using other fasteners, make sure they do not damage or deform the mounting panel.
11. Place the detector on the SmartBracket mounting panel.



12. Adjust the position of the detector if necessary.

13. Turn on the external power supply.



It is necessary to perform a self-test after the installation is finished.

Actions to take in case of a fire alarm (Heat)



NEVER IGNORE THE ALARM! Always assume the alarm is real, and evacuate from the premises immediately, even if you have doubts about the cause of the alarm signal.

1. Don't open doors if you feel heat or smoke behind them. Check other exits and use an alternative escape route. Always close doors behind you when leaving.



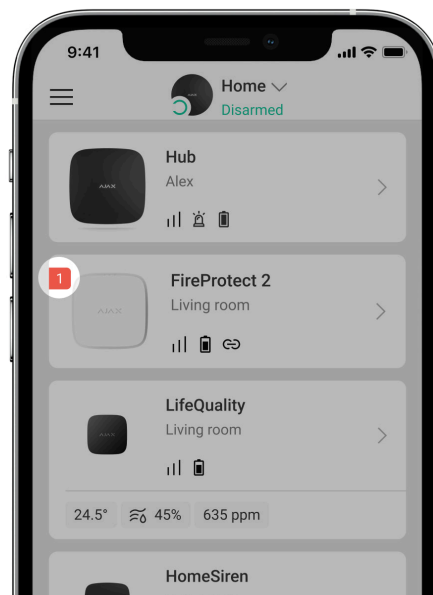
If heavy smoke enters a room, stay close to the floor and crawl out. If possible, breathe through a wet cloth or try to hold your breath. Be aware that smoke inhalation causes more death than fire.

2. Evacuate as quickly as you can, don't panic. Save time, don't pack your things. Arrange a meeting place outside for everyone in the building. Ensure everyone has evacuated safely.
3. Call the fire department immediately, or ask someone nearby. Remember, even small fires can spread rapidly; call the fire department even if the alarm is automatically transmitted to a monitoring station.



NEVER come back to the house on fire.

Malfunctions



When a malfunction is detected, the Ajax app displays a malfunction counter on the device icon. All malfunctions are indicated in the device's states. Fields with malfunctions will be highlighted in red.

A malfunction is displayed if:

- no connection with the hub or radio signal range extender;
- the detector's enclosure is open;

- low backup battery charge level;
- hardware malfunction (failure of one or more sensors of the detector).

Maintenance

The detector has a self-test system and does not require the user or installer intervention. We recommend periodically running a self-test to familiarize people with the alarm sound and LED indication.



FireProtect 2 devices connected to the Ajax hubs generally do not require routine testing. All connected devices are constantly monitored for possible faults, low backup battery, and EOL signals.

However, we encourage all users to test FireProtect 2 devices periodically (monthly)* to allow residents of the building to become familiar with the fire alarm signals of the system.

**Please be aware that your local regulation might require more frequent testing (e.g., weekly).*

Clean the detector enclosure of dust, cobwebs, and other contaminants as they emerge. Use a soft dry cloth suitable for equipment care. Do not use substances that contain alcohol, acetone, gasoline, and other active solvents to clean the device.

The service life of the detector is 10 years. After this period, the sensitivity of the sensors decreases. We recommend replacing the detector with a new one to ensure uninterrupted fire protection at the premises.

The detector must be changed to a new one after the backup battery is discharged.

Technical specifications

All technical specifications of FireProtect 2 AC (Heat)

Warranty

Warranty for the Limited Liability Company “Ajax Systems Manufacturing” products is valid for 2 years after the date of purchase.

If you encounter any issues with the device’s functionality, we recommend contacting Ajax Technical Support first. In most cases, technical issues can be resolved remotely.

Warranty obligations

User agreement

Contact Technical Support

- email
- Telegram