

Tech specs

RESIDENCE LINE

FireProtect 2 AC (Heat) Jeweller

Wireless mains-powered fire detector with heat sensor



Device compatibility

Check

Communication

📶 Jeweller communication technology

Proprietary wireless technology for transmission of alarms and events.

Features:

- Two-way communication.
- Protection against device spoofing.
- Block encryption featuring a floating key.
- Instant notifications.
- Remote configuration via the 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 region of sale.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and noise interference.

Radio signal modulation

GFSK

Radio signal range

up to 1,700 m

Between the detector and a hub (or radio signal range extender) in an open space.

Calculate the radio signal range at the facility >

Encrypted communication

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

Frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

Learn more >

Dangerous temperature detection

Sensitive element

according to the requirements for Class A1R heat detectors

Requirements of EN 54-5 and BS 5446-2 standards.

High temperature alarm

at temperatures above 64 °C

Temperature spike alarm

when the temperature rises more than 10 °C in 1 minute or less

Additional features

In-built siren

volume 85 dB at a distance of 3 meters

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



Interconnected Fire Detectors Alarms

via primary interconnection

If one of the fire detectors in the system detects a threat, it sends an alarm to the hub. Within 20 seconds, the hub initiates an interconnected alarm and sends data to Ajax apps.

via fallback interconnection

At the same time with notifying the hub, the initiating detector sends an alarm directly to other detectors. All connected detectors activate the buzzer within a minute. It will work even in the worst-case scenario of losing connection with the hub.

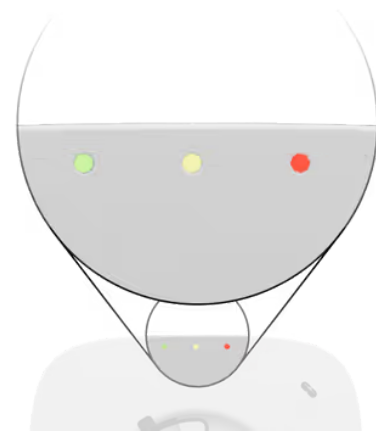


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LED indication

green is a power indication

An LED indicator on the device enclosure lights continuously when powered by an external power source. If the device draws power from the backup battery, the LED indicator lights up once every 56 seconds. This indication complies with the requirements stipulated in EN 14604 and EN 50291 standards.



yellow is a malfunction indication

An LED indicator on the device enclosure lights up to signal detected malfunctions. This can occur in instances such as battery depletion.

red is a fire alarm indication

An LED indicator on the device enclosure lights up when the detector registers a fire alarm.

Button on the front panel of the detector

In normal mode, pressing the button initiates the detector test. In the event of an alarm or malfunction, pressing it turns off the device sound notification.



External power supply

110–240 V~, 50/60 Hz

The phase and neutral cables from the external power supply should be connected to the WAGO terminals on SmartBracket mounting panel. To remove the detector from SmartBracket, there is no need to disconnect the power cables.



Recommendations

The device is designed for indoor installation only.

SmartBracket mounting panel allows adjusting the position of the detector even after installation.

Sabotage protection

Tampering alarm

Notifications on 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

within 15 minutes

The time required to detect a communication loss depends on the settings for the number of undelivered data packages (specified in the **Jeweller** or **Jeweller/Fibra** settings).

[Learn more](#) >

Power supply

Main

110–240 V~, 50/60 Hz

Up to 2 W of mains power consumption.

Backup

1 non-replaceable lithium battery CR-2/3AZ

Allows the detector to operate autonomously without the main power source.

Enclosure

Dimensions

122 × 122 × 54 mm

Weight

303 g

Operating temperature range

from 0 °C to +50 °C

Operating humidity

up to 80%



Colours

Black



White



Complete set

FireProtect 2 AC (Heat) Jeweller

SmartBracket mounting panel

WAGO 221 3-conductor terminal – 2 pcs.

(pre-installed in SmartBracket)

Installation kit

Quick start guide

Certification and compliance with standards



FireProtect 2 AC (Heat) Jeweller



Additional information

Compliance with standards

Learn more >

User manual

Learn more >

Warranty

24 months

Learn more >

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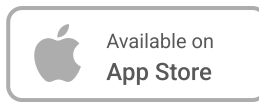
Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

Video surveillance solution

Integration with Yale smart locks

Water damage prevention

Upgrades and retrofits

Why Ajax

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