FireProtect 2 AC (Heat/Smoke/CO) Jeweller

Wireless mains-powered smoke, heat, and carbon monoxide detector

Compatibility	**Control panels** Hub Plus Hub 2 (2G) Hub 2 (4G) Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G) **Range extenders** ReX ReX 2
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 configuration in the Ajax apps. **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 up to 5,500 ft Between detector and hub (or range extender) in an

	open space. **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.
Sensitive elements	smoke sensor heat sensor CO (carbon monoxide) sensor
Smoke detection	**Sensitive element** dual-spectrum optical sensor Detects smoke by the size of particles in the air. **Protection from false alarms** Does not react to water vapor. **Patented smoke chamber** Protects the smoke sensor from dust, dirt, and insects.
Dangerous temperature detection	**Sensitive element** according to the requirements for Class A1 heat detectors Requirements of EN 54-5 and BS 5446-2 standards. **High temperature alarm** at temperatures above 64 °C at temperatures above 147 °F **Temperature spike alarm** when the temperature rises by more than 10 °C 50 °F in 1 minute or less
Carbon monoxide (CO) detection	**Sensitive element** chemical CO sensor **Alarm if accumulated dose of CO is exceeded** over 50 ppm (0.005%) — in 90 minutes or less over 100 ppm (0.01%) — in 40 minutes or less over 300 ppm (0.03%) — in 3 minutes CO concentration exceeding 400 ppm (0.04%) within a span of 3 hours poses a life-threatening risk. The detector will cease notifications regarding hazardous carbon monoxide levels once the concentration decreases to 50 ppm (0.005%) within a 1-minute duration.

	Sensor service life 10 years After 10 years of operation, the detector must be replaced with a new one.
Additional features	**Built-in siren** volume 85 dB at a distance of 3 meters volume 85 dB at a distance of 9 ft Sound notification of alarms. Remains active until the reason for triggering is eliminated or until the user manually disables the 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. **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, smoke chamber contamination, or reaching the end of the service life. 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 smoke chamber test. In the event of an alarm or malfunction, pressing it turns off the detector 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.
Recomendations	The device is designed for indoor installation only. SmartBracket mounting panel allows adjusting the position of the detector even after installation.
Sabotage protection	**Tamper alarm** Notifications on attempts to detach the detector from the surface or remove it from the mounting panel. **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).
Power supply	**Main** 110–240 V~, 50/60 Hz Up to 2 W of mains power consumption. **Backup** 1 non-replaceable lithium battery Allows the detector to operate autonomously without the main power source.
Enclosure	**Dimensions** 122 × 122 × 54 mm 4.80" × 4.80" × 2.13" **Weight** 318 g 11.22 oz **Operating temperature range** from 0 °C to +50 °C from 32 °F to 122 °F **Operating humidity** up to 80%
Colours	**Black**

	White
Complete set	FireProtect 2 AC (Heat/Smoke/CO) Jeweller SmartBracket mounting panel WAGO 221 3-conductor terminal — 2 pcs. (pre-installed in SmartBracket) Installation kit Quick start guide
Warranty	24 months
Service life	10 years