

FIRE GUARD

SMOKE DETECTOR



The Fire Guard is a wireless smoke detector featuring a photoelectric dual-spectrum, dust-resistant sensing chamber and SIC technology that enables temporary alarm silencing using an IR remote control. It can function either as part of the SAFE alarm system—managed by the Hub SAFE central control unit—or as a fully autonomous device. Engineered for rapid and reliable hazard detection, the Fire Guard combines high sensitivity with stable performance and strong resistance to false alarms, ensuring dependable protection in all monitored spaces.



Data Encryption with AES Algorithm with Floating Code

The SAFEKeeper encrypted communication protocol ensures maximum protection of the security system.



Radio Signal Range up to 1000 m

Stable and efficient communication with a range of up to 1000 m in open space.



Bidirectional Information Transfer between Devices

Uninterrupted interaction between the central unit and devices using AES128 encryption.



Available 24/7

Fire detection services remain active at all times, operating 24/7 for uninterrupted protection.



SIC Remote Alarm Silencing by IR Remote Control

The audible alarm can be temporarily silenced remotely by pressing any button on a standard IR remote control.



Built-in Siren and 85 dB Loud Alarm

Integrated warning siren with an impressive 85 dB warning signal.



Firmware Update via Cloud Services

Adding new features, enhancing software security and expanding the security system capabilities.



Certification EN 14604:2009

Complies with all required European standards including EN 14604:2009; over 10 years of protection.



Simple Device Setup

The device is fully ready to use right after unpacking.



Protection Against Radio Signal Interference

If signal interference is detected, the user is alerted, and the device automatically switches to a clear frequency band.



Add a Device to the System by Scanning a QR Code

Adding a Fire Guard is simple with the ProSAFE app. Just scan the device's unique QR code and configure the required functions.



Replaceable Power Battery

The detector provides an early end-of-life warning and automatically alerts you when it needs to be replaced.

Technical Specifications - Fire Guard

Model Identification

SAFE 38230	White EAN code - 0728204234822
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Interface

Indication	Red and green LEDs Standby mode: Green LED flashes once per minute Alarm: Red LED flashes once per second Fault: Red LED flashes twice per minute
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Function

Remote Update	Yes (Cloud)
Temperature Sensor	Yes
Search	Signal strength detection
Low Battery Alarm	Yes
False Alarm Prevention	Yes

Wireless Transmission

Carrier Frequency	868.3 MHz
Communication Type	Bidirectional
Communication Distance	Up to 1,000 m (3,280.84 ft) in open space
Encryption Mode	AES128
Frequency Hopping	Yes (automatic)

Detection Parameters

Detection Type	Smoke, fault warning, low battery warning
Sensor	Photoelectric - dual spectrum
Sampling Time	9 s
Room Height	≤8 m (26.25 ft)
Detection Area	20 m ² – 40 m ²
Signaling	Acoustic 85 dB - 95 dB at 3 m (9.84 ft) Optical: LED indicator
Maximum Number of Connected Units	24
Silencing Function	Yes
Silencing time approx	9 min
Infrared Silencing	Yes
Detector Response Threshold	0.2 dB/m – 0.3 dB/m

Unique Dual-Spectrum Smoke Chamber Technology

A dual-spectrum optical sensor using both blue and infrared LED sources with different wavelengths is integrated into a dust- and insect-resistant smoke detection chamber. The chamber design is directly linked to the AI SAFE microprocessor, ensuring highly accurate real-time analysis of airborne microparticles. This advanced technology enables the system to determine the size and nature of volatile particles entering the optical chamber and respond exclusively to genuine smoke threats. By reliably distinguishing smoke from water vapour and other similar aerosols, it significantly minimizes false alarms while maximizing detection accuracy.

Reacting Only to True Threats

In residential fire detection systems, the main priority is to alert occupants quickly and reliably to real and immediate danger. The AI SAFE microprocessor has been developed based on extensive analysis of material combustion properties and uses an advanced prediction algorithm that evaluates data from the dual-spectrum optical sensor to eliminate false alarms in real time. If the detected particle pattern corresponds to water vapour or other harmless fumes, the detector remains inactive. However, when the dynamic characteristics of the measured data match the known parameters of actual smoke particulates, the detector immediately triggers a fire alarm.

Fire Alarm Signaling

When the smoke concentration reaches the defined threshold, Fire Guard automatically activates a powerful 85 dB acoustic alarm, accompanied by an intense flashing red LED indicator. This combination of loud sound and bright visual signaling ensures maximum attention, alerting occupants that a fire has been detected somewhere in the building. The purpose of the alarm is to prompt an immediate response, enabling people to react quickly to the emergency, evacuate the affected area, or move to a safe zone.



Technical Specifications - Fire Guard

General	
Power Supply	1×3V CR123A lithium battery (replaceable)
Power Consumption	≤35 µA (operation) ≤35 mA (alarm)
Battery Life	3 years
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F) (indoors)
Operating Humidity	≤95 % (RH non-condensing)
Product Dimensions	ø98 mm × 43.1 mm (ø3.85" × 1.70")
Package Dimensions	136 mm x 65 mm x 154 mm (5.35" × 2.56" × 6.06")
Weight (net)	140 g (0.30 lb)
Weight (gross)	282.5 g (0.62 lb)
Installation	Ceiling mount
Housing Material	PC + ABS
Compatibility	Hub 2 Plus LTE SAFE 38300
Compliance	CE TÜV EN 14604:2005+AC:2008 EN 62479:2010 EN 50130-4:2011+A1 EN 301489-1 V 2.2.3:2019 EN 301489-3 V 2.1.1:2019
Warranty	36 months

SIC Technology and Remote Alarm Silencing by IR Remote Control

The detector features a multifunction button with both TEST and SILENCE capabilities. This allows you to verify proper device operation and temporarily mute the alarm when needed. If the cause of the alarm is identified and there is no real danger, you can easily silence the loud siren with a simple press of the button—no complex procedure required. Thanks to SIC technology, the detector also enables remote alarm silencing. By pressing any button on a standard infrared (IR) remote control—such as those used for TVs or other common home appliances—you can immediately mute the audible alarm, offering maximum convenience and fast response in non-emergency situations.

Reliable Operation with IZOVAX Protection – Even in High-Humidity Environments

The electronic components and circuit board of the Fire Guard smoke detector are coated with an insulating protective layer of IZOVAX nanoparticle coating. Combined with the advanced dual-spectrum optical sensing chamber—capable of distinguishing real smoke particles from water vapour—the detector can be safely installed in areas with elevated humidity. This includes bathrooms, drying rooms, kitchens, or technical rooms, where conventional smoke detectors often fail or generate false alarms.

SAFE Keeper Wireless Communication

SAFE Keeper is a radio protocol designed for the SAFE wireless security system. It operates at a frequency of 868.0-868.6 MHz and provides an interference-free communication range of over 2,000 m in open areas. Protected by AES128 encryption and a bi-directional communication mechanism, it ensures enhanced security for the transmitted data. In case of radio signal interference, the user is notified and the device automatically switches to a clear frequency band. The device is reliably protected against software-level threats. SAFE Keeper delivers the maximum and effective protection of the wireless security system.

