



# **WIRELESS & HYBRID**

## **FIRE ALARM SOLUTIONS**

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# Introduction

Argus Spectrum International, a global leader in advanced fire protection, is proud to announce its official entry into the Indian and South Asian markets with its world-class wireless fire detection and alarm system, Streletz-PRO. As a leading manufacturer of cutting-edge wireless fire detection systems and intelligent addressable wired devices, we bridge the gap between rapid deployment and proven reliability.

## Why Streletz-PRO?

**Cloud Service:** A state-of-the-art technology for connecting fire systems to one monitoring hub on your phone or a computer.

**Advanced Mesh Technology:** Self-healing networks automatically route signals through the strongest available path.

**10-Year Battery Life:** Exceptional energy efficiency significantly reduces maintenance requirements and the total cost of ownership.

**Long-Range Reliability:** A communication range of up to 1,200 meters in open space.

**Hybrid Versatility:** Seamless integration of high-performance intelligent addressable wired devices with a wireless network.

We are excited to partner with leading distributors, system integrators, consultants, and end-users, providing them with highly reliable technology that can be installed up to five times faster than traditional systems.



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# About Us

Argus Spectrum is one of the world's leading manufacturers specialising in the design and production of innovative wireless fire detection and security systems.

Our system Streletz-PRO is a brand of wireless fire alarm equipment. Streletz-PRO includes all the necessary equipment for a comprehensive fire protection setup. It covers fire detection, notification, fire suppression and much more.

Argus Spectrum was established in 1993 in St. Petersburg, Russia. The factory covers an area of 8000 m<sup>2</sup> and houses five lines of surface mounting with automatic optical inspection systems, featuring robots from major global manufacturers. Additionally, the factory's test laboratory is well-equipped with smoke channel

testing equipment, conforming to both Russian and international standards.

Today, Argus Spectrum's key achievements include:

- High-volume production: Manufacturing 200,000 devices per month.
- Expert team: 350 employees, including 50 specialists in the R&D department.
- Innovation: Over 100 patents held.
- Proven track record: Over 12 million wireless devices sold worldwide.

We operate strict quality management systems in accordance with ISO 9001. We have been recognized by and awarded the Toyota Bronze Medal for our Production Management System.



## About Argus Spectrum International

A video about our company, our team and our work.

<https://catalog.argus-spectr.ru/video/en/about>



# STRELETZ-PRO OVERVIEW

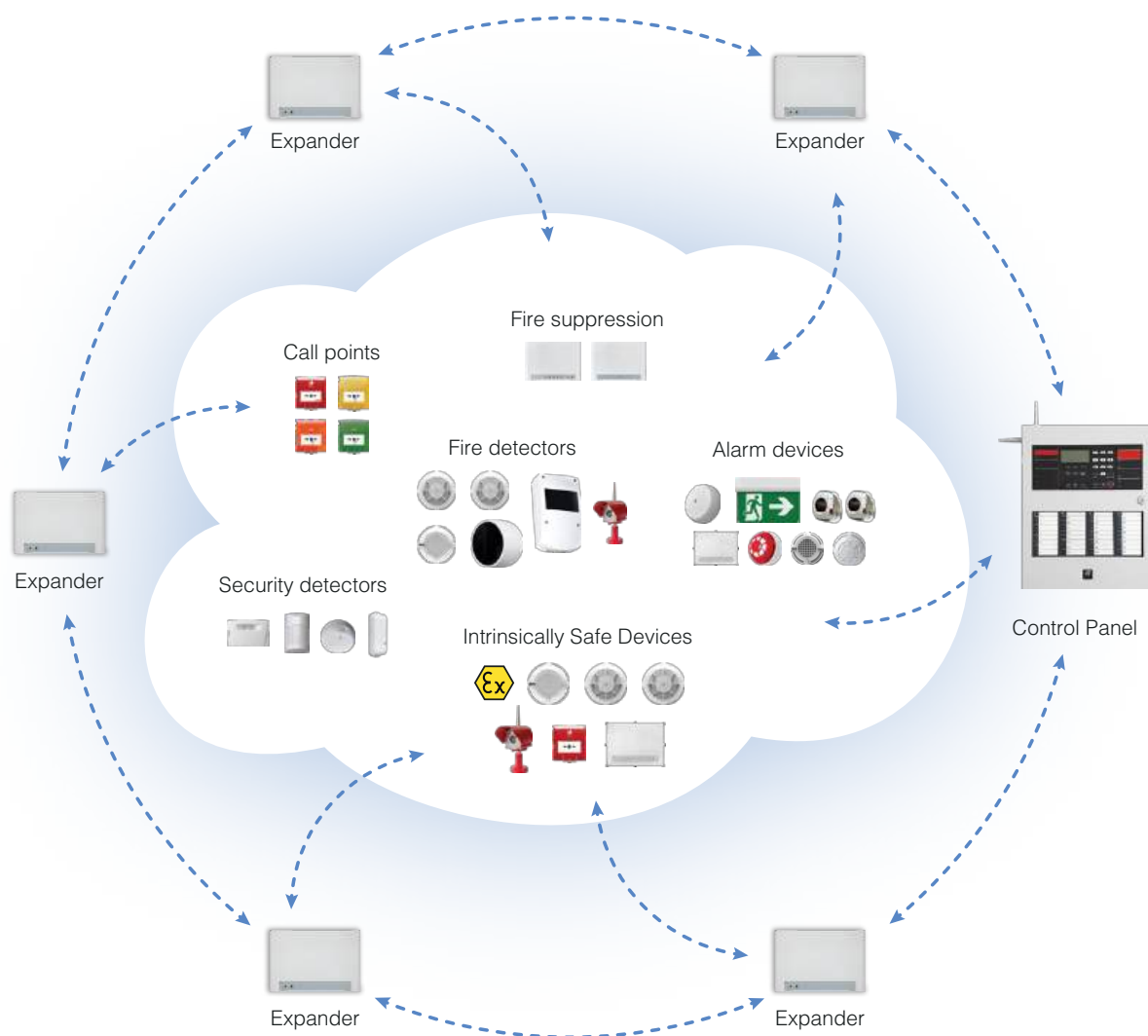
Introduction to the products and solutions, as well as diagrams showing how the system is built and the features it supports.

# Streletz-PRO Architecture

Streletz-PRO is a brand of wireless fire alarm equipment. Streletz-PRO includes all the necessary devices for a comprehensive fire protection setup. It covers fire detection, notification, fire suppression and much more. Our wireless system has no limitations in this aspect and can match the capabilities of wired systems.

The panel is the central device in the wireless network. Signals from wireless devices are

received by the translator or the wireless card and then get recognized by the panel. In order to expand the range of the network, expander modules are placed throughout the building. These expanders create a wireless network, similar to Wi-Fi. Within this network, detectors and other devices can seamlessly switch between expanders, much like a smartphone switches between Wi-Fi access points. Expanders can be powered by the loop or an external PSU.



## Streletz-PRO features



Fire detection



Fire suppression



Sound, voice, and visual alarm

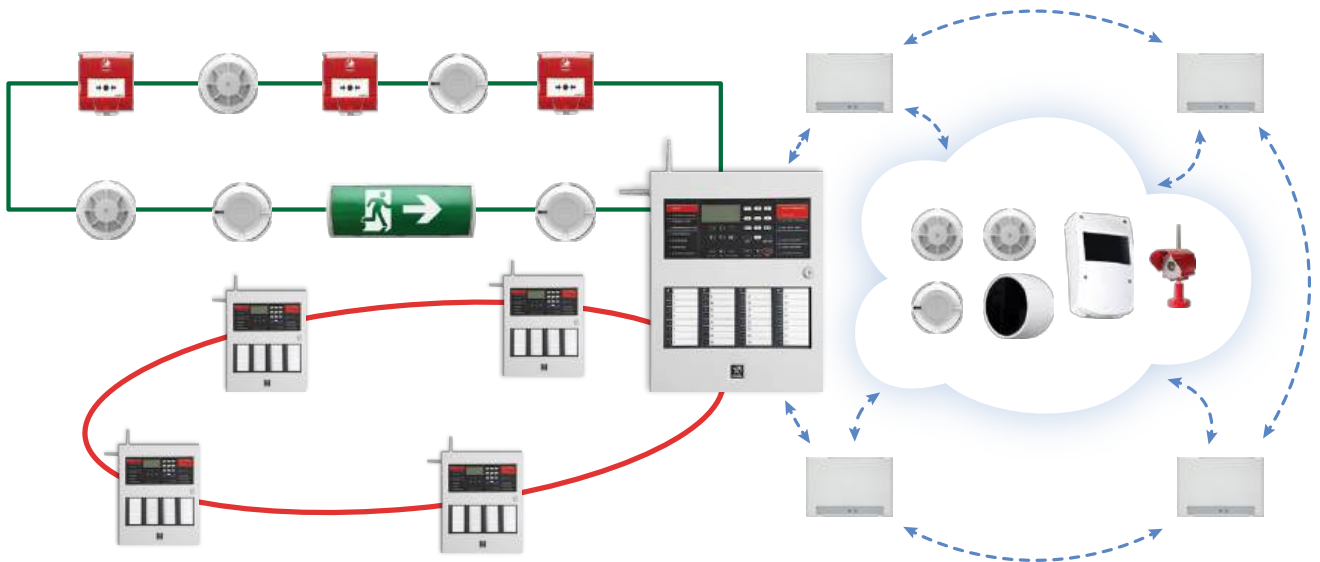


Remote access and monitoring

# Hybrid Solution

Argus Spectrum offers a comprehensive product range, including analogue addressable devices. The fact that our main specialty is wireless doesn't mean that our wired solution is compromised in any way. In fact, it is just as good as other intelligent fire systems from popular manufacturers.

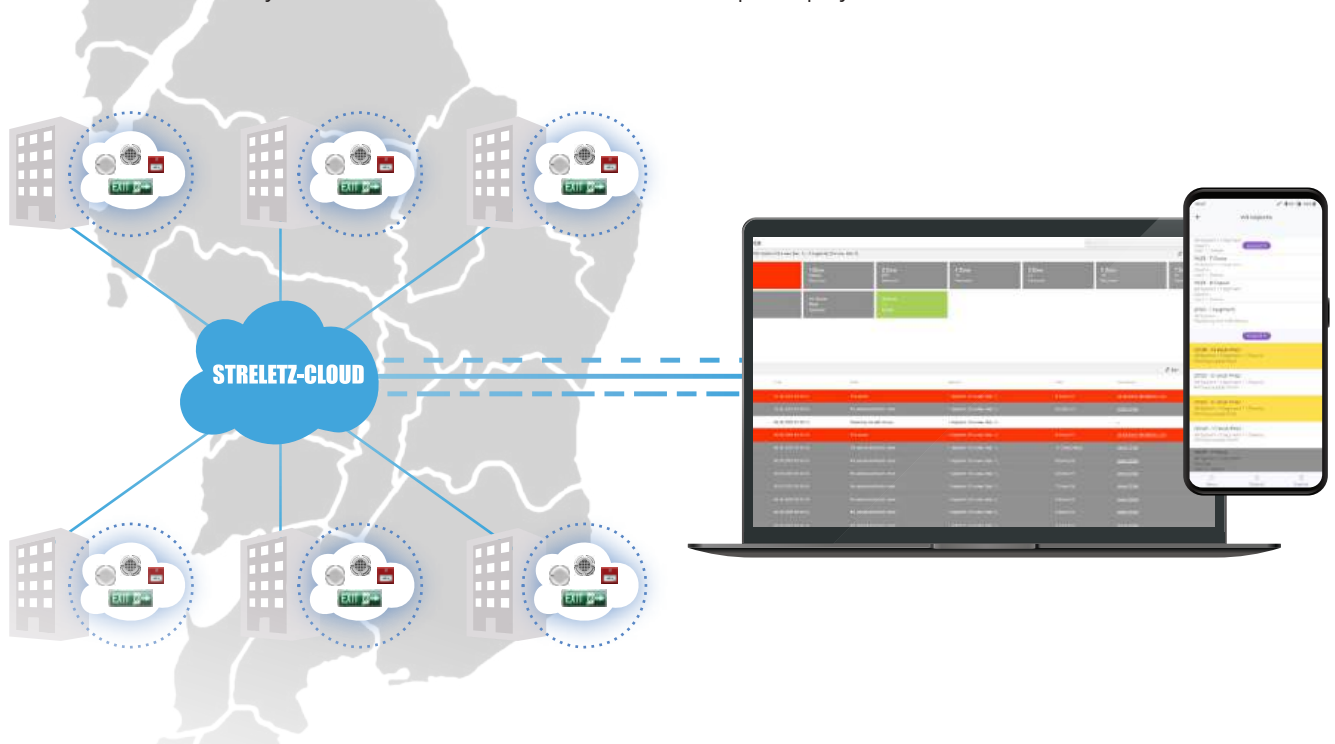
Our addressable product line includes smoke, heat, multi-criteria and beam detectors, manual call points, sounders and VAD's, output and input modules. All devices come equipped with an integrated short circuit isolator.

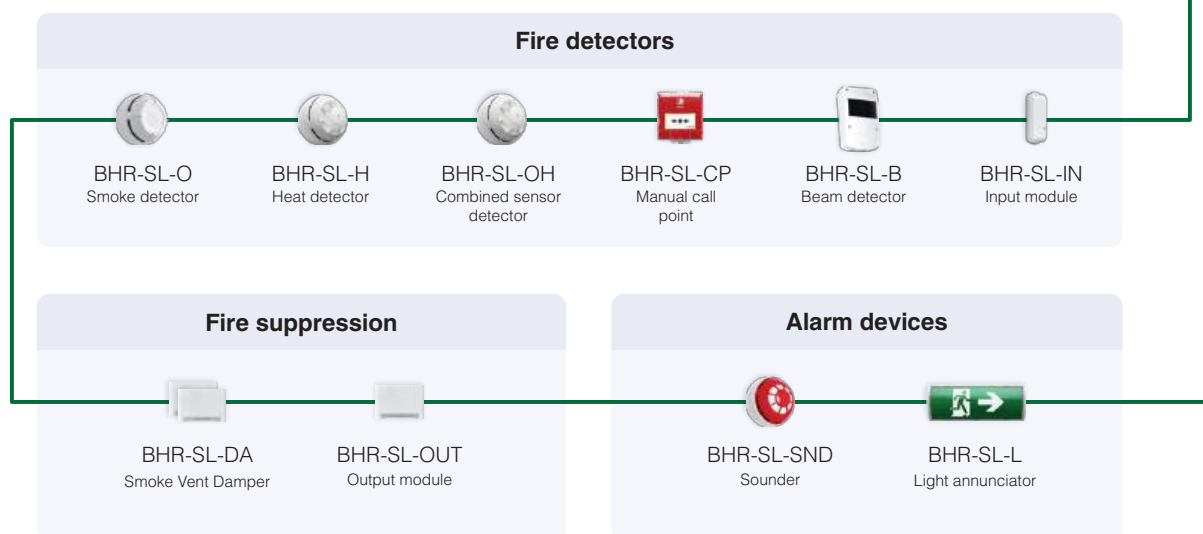
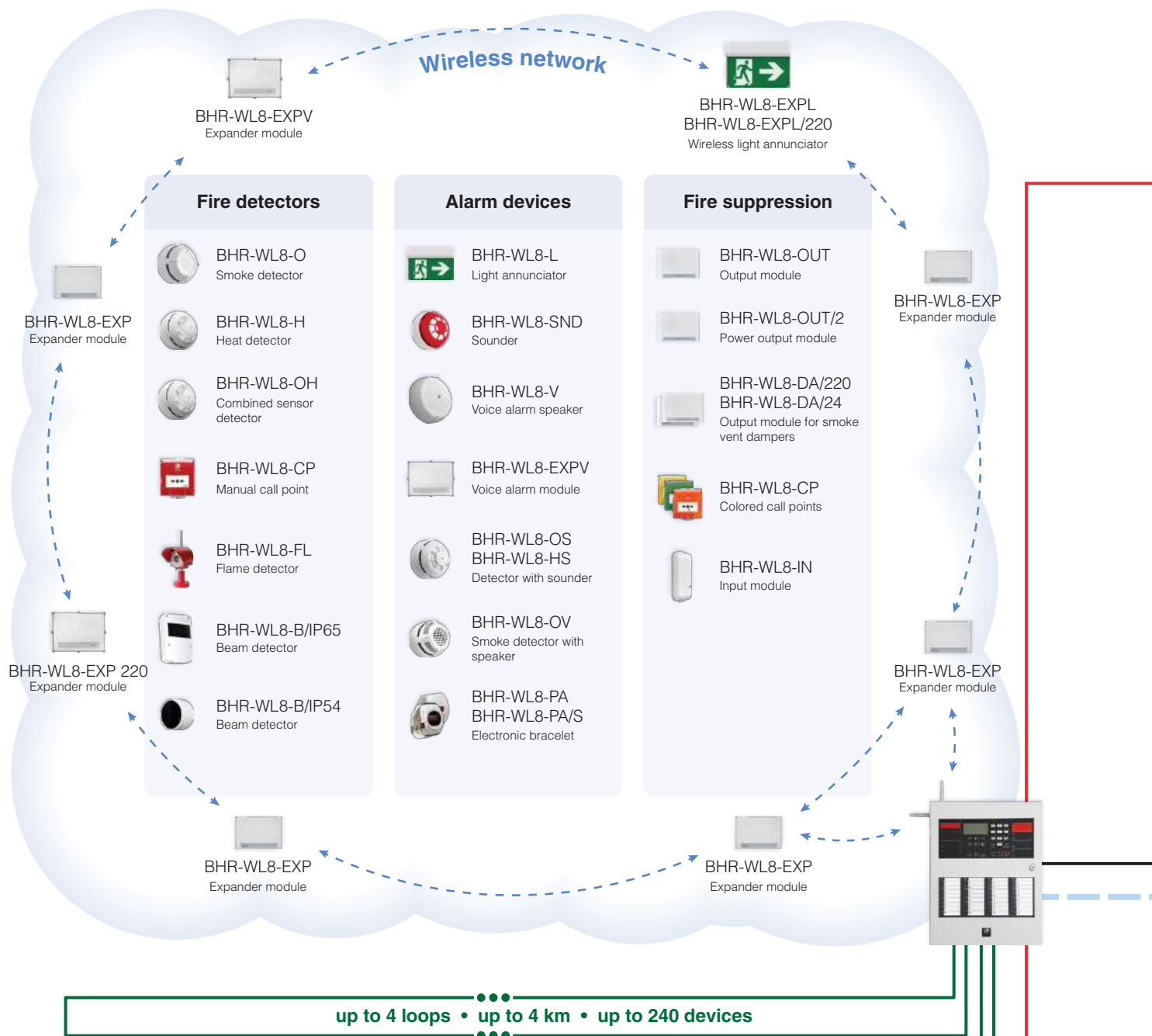


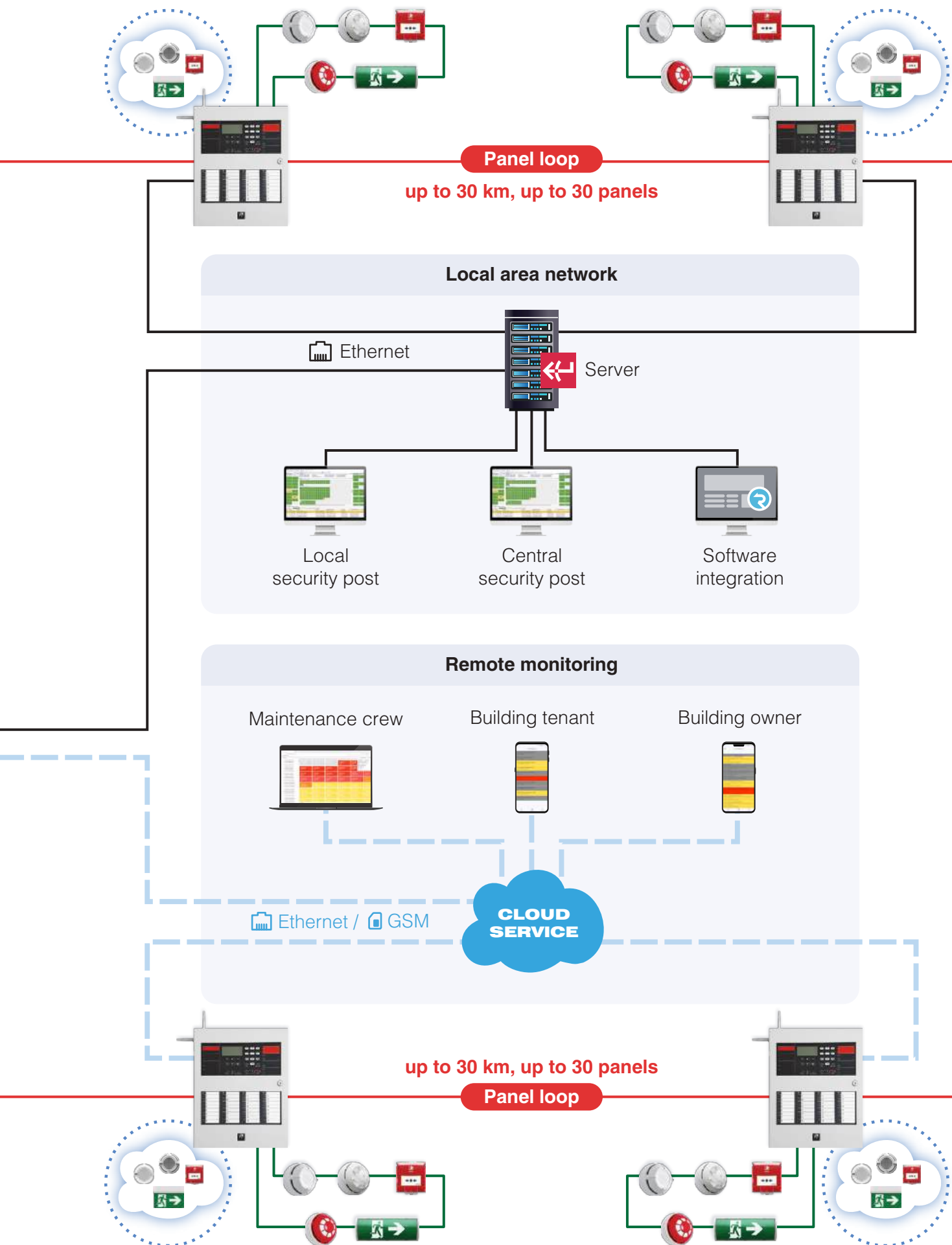
# Cloud Service

Argus Spectrum also offers a cloud service that provides remote access to the fire system for fire alarm engineers. What sets it apart from similar offerings is the scale of our solution. Streletz-Cloud servers support practically unlimited number of fire systems connected to one

account. This enables the setup of a monitoring center that provides access to installed systems for service organizations and other authorized personnel. With Streletz-Cloud, the systems are under continuous control, and all malfunctions are promptly identified and addressed.









## **STRELETZ-PRO FEATURES**

Mesh network, 10-year battery life, 1200-meter communication range and other features in one of the most advanced wireless fire alarm systems on the market.



## Mesh Network

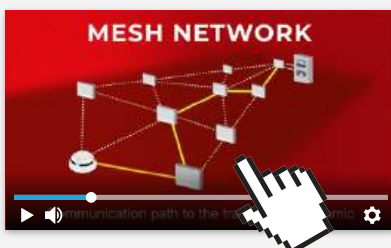
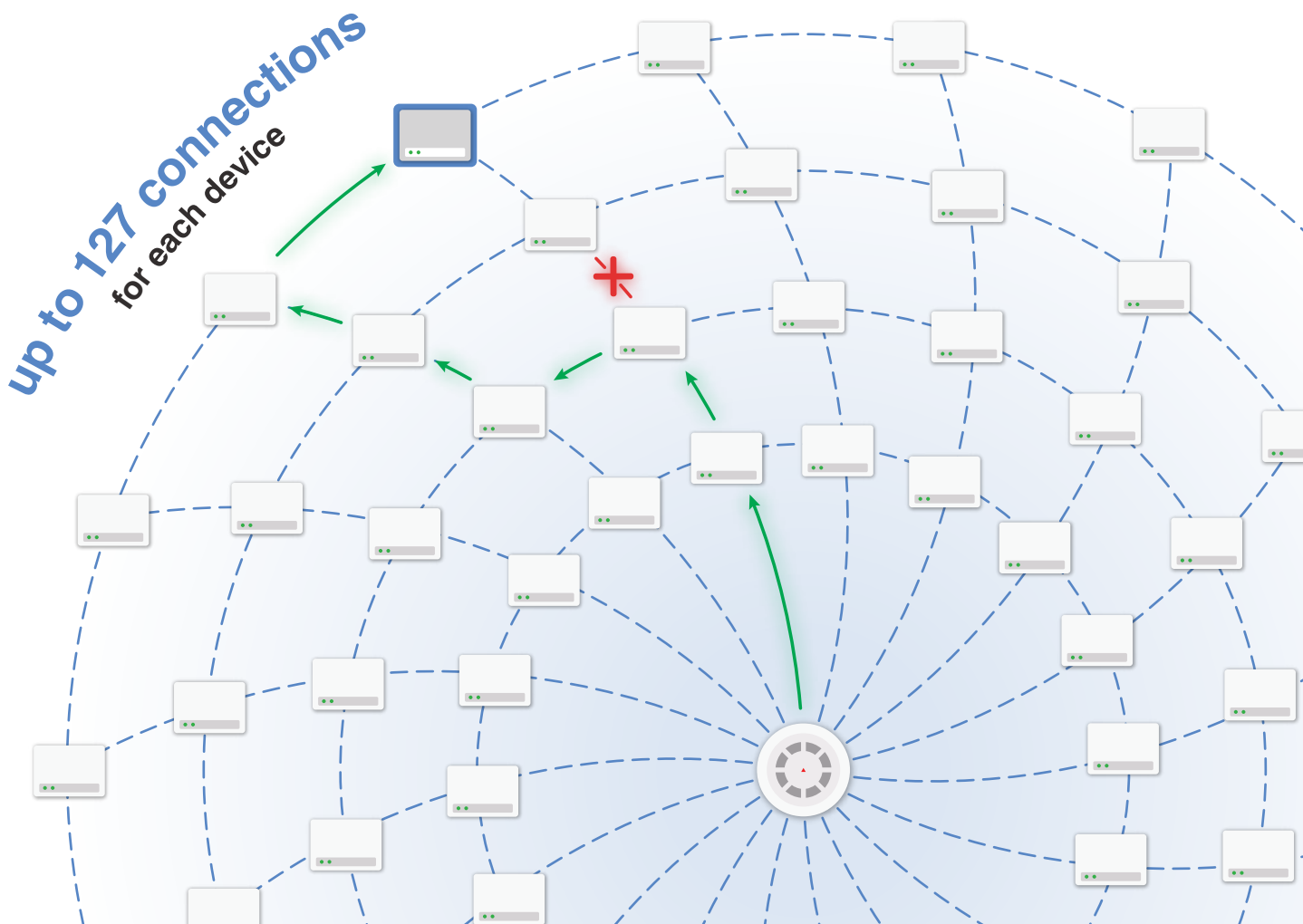
Mesh network is a clever technology that allows wireless systems to automatically create and adjust the network topology. Streletz-PRO uses expanders positioned at different spots in a building, overseeing subordinate devices. This mesh routing tech has two main parts:

- Each device automatically chooses its parent expander;
- Expanders automatically form a network for delivering information to the translator.

Unlike “static” wireless systems, where a detector sticks to one expander with no backup, mesh tech elevates wireless security with these benefits:

- Unmatched reliability: If an expander falters or loses communication, the detector swiftly connects to another one.
- Easy setup: The system figures out which expander a detector needs and how expanders link up in the network. This means simpler design, setup, and operation.

Wireless devices do not need to be assigned to a specific expander nor do the expanders need to be specified how to communicate with each other.



### Streletz-PRO Wireless fire detection

A video about features and technical specs of Streletz-PRO

<https://catalog.argus-spectr.ru/video/en/system>



## Unprecedented reliability

In addition to multiple communication paths, a detector can also send its signals via 6 different frequency channels. And expanders have two orthogonal antennas to improve reception of signals with different polarization. This provides an extra level of communication reliability.

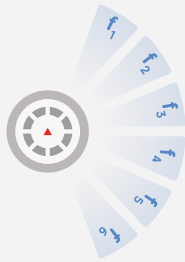
**2**

orthogonal antennas



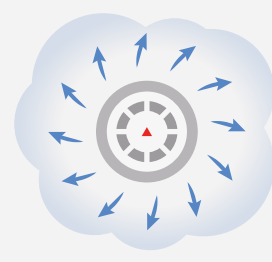
**6**

frequency channels



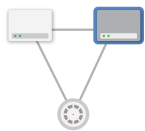
**127**

communication paths

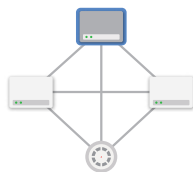


The number of communication paths in Streletz-PRO depends on how many expanders are in the detector's range, and how the expanders are interconnected with each other. With every expander added to the network, the

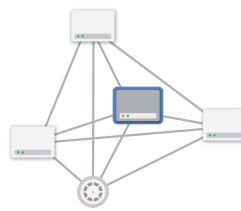
variability of communication routes from a detector to the translator grows exponentially. This is a part of what makes the system so robust and reliable.



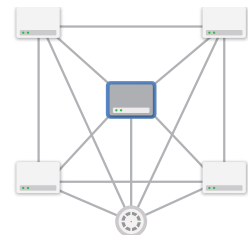
**1 expander**  
**2 paths**



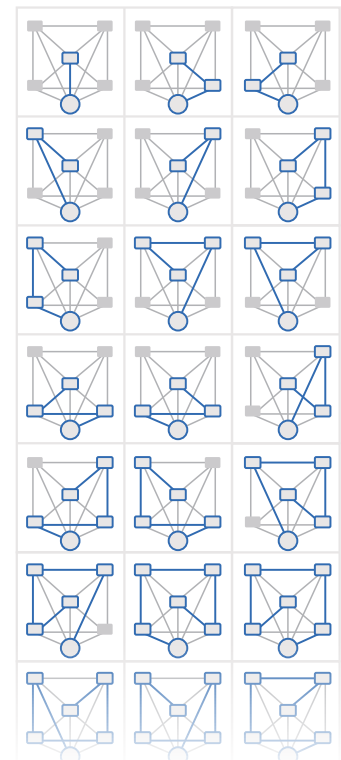
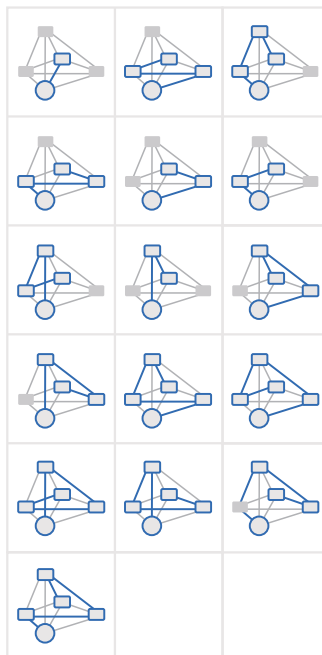
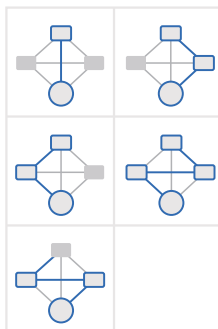
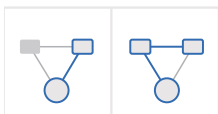
**2 expanders**  
**5 paths**



**3 expanders**  
**16 paths**



**4 expanders**  
**65 paths**





## Communication range

1200 m in open air  
30-50 m in a building

The number of expanders needed depends on the communication range, and each expander carries a cost and requires a suitable location. Sometimes, installing expanders too frequently isn't practical. So, here's the simple idea: a wider range means fewer expanders, reducing costs for setting up the wireless communication system on the premises. A IBHRer range also makes it easier to maintain solid wireless coverage across the whole facility, preventing communication problems while using the system. Of course, the range depends on the material and number of walls, but on average, you can expect a value of around 30 meters.

Besides, expanders radiate signals in a sphere. This means detectors can stay connected, even if they're on another floor, above or below. This multi-path communication brings redundancy to devices and maximizes Streletz-PRO reliability.



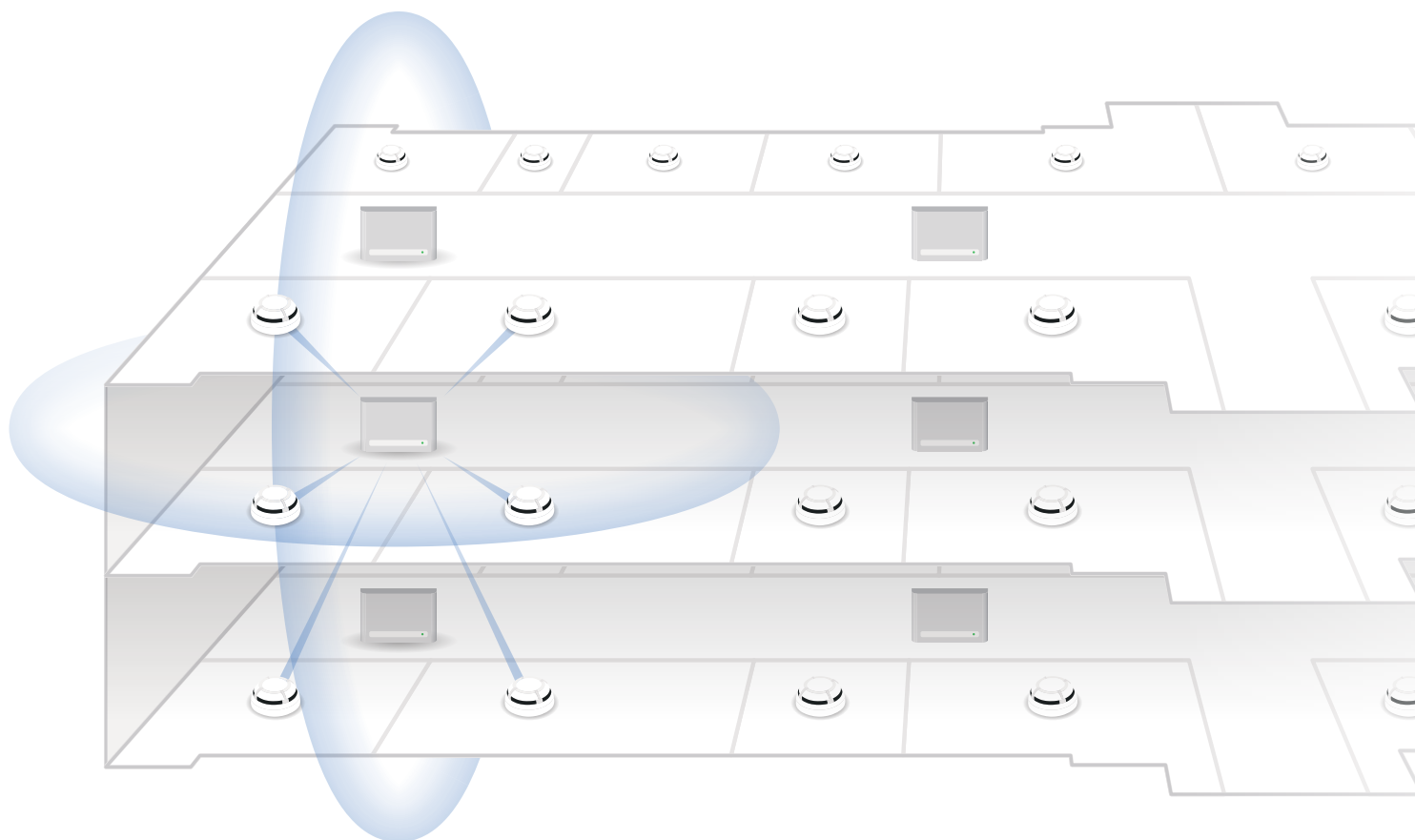
## Operating frequency – 865 to 867 MHz.

The operating frequency tells us if the Streletz-PRO can work alongside other wireless devices in the area. The system uses frequency bands specifically set for security purposes. Stuff like consumer walkie-talkies and remote controls use the 433 MHz range, while Wi-Fi uses 2.4 or 5 GHz. This cleverly avoids any clashes – the frequency bands are interference-free.



## ERP – up to 25 mW

We can ensure safety through system certifications. Take the example of a mobile phone – its maximum ERP is roughly 2 watts. This is way higher, hundred times higher, than ERP radiated by the devices of Streletz-PRO system. Also, consider how a phone is close to the head, while a fire alarm detector mounted on a ceiling. The system even has an automatic power control, so radiation is usually below 25 milliwatts.





## System capacity – 1920 devices

A wireless system's stability depends on its capacity. If several low-capacity wireless systems are set up on the same floor, more devices mean disruptions in network operation. Streletz-PRO is a solution – it accommodates up to 1920 devices in one network without interference. This capacity lets you tackle intricate tasks and equip different facilities. The system can also handle up to 127 expanders for a robust network.



## Activation time – 3 seconds

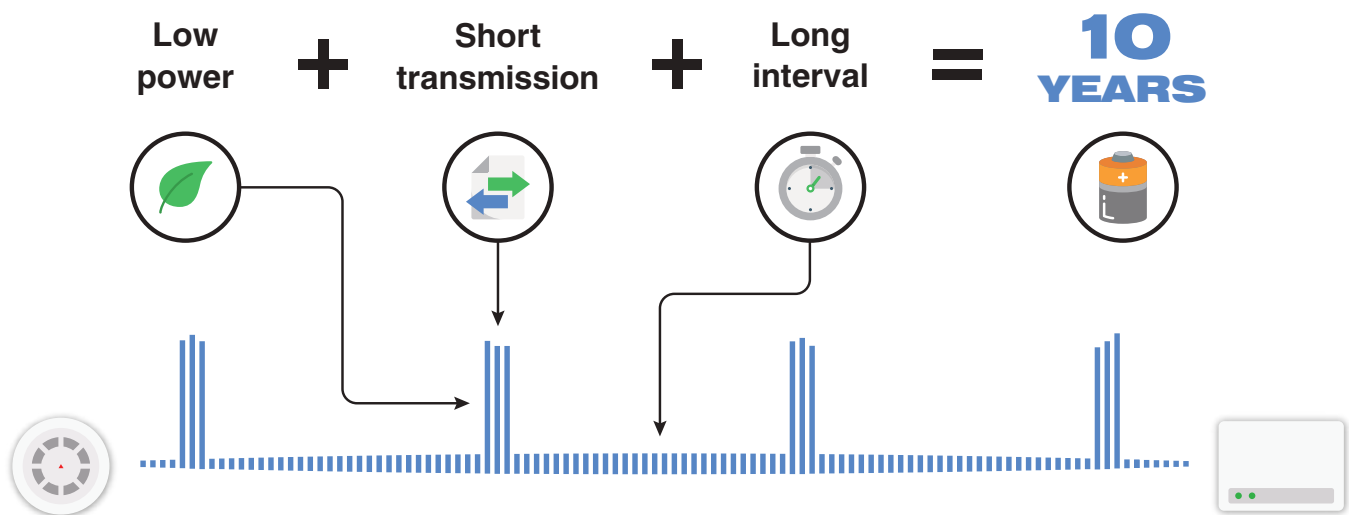
While this detail may not seem crucial at first glance, its importance shines through during real-world operation. In a mere 3 seconds, VAD's, sounders, EVAC, and bracelets all spring into action – a rapid reaction unmatched by other wireless systems. It's also worth noting that this factor holds significant weight under fire alarm standards.



## 10-year battery life

Significant increase in battery life has become possible due to the optimization of the data exchange protocol: mesh network technology allows each device to automatically select the shortest and most energy efficient communication route. Plus, electronic components have also become more energy-efficient and the advancements in the electric vehicle industry led to a new performance level of batteries. This means wireless devices of Streletz-PRO system now boast a 10-year battery service life. This extended lifespan of the batteries reduces the overall ownership cost of the system, as the batteries will last throughout the devices' entire period of use.

Every device connected to keeps both the main and backup batteries under control. If either battery runs low, the LED on the device will start blinking, and this data gets sent to the control panel. Thanks to the software-driven current state monitoring service, you can plan ahead and replace batteries before they become a problem.



### Batteries in Streletz-PRO: all you need to know

The video breaks down all the factors that contribute to the 10-year battery life in Streletz-PRO

<https://catalog.argus-spectr.ru/video/en/batteries>



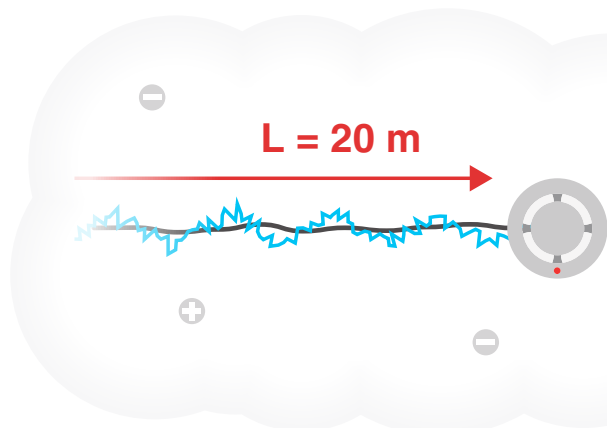
## Resistance to interference

Wireless systems are protected from electromagnetic interference even better than wired counterparts. The voltage that occurs due to EMI is directly proportional to the length of the

conductor. Therefore, long cables essentially act as antennas for interference. Wireless systems don't have long electrical currents that capture electromagnetic interference, and this feature makes them much less troublesome to maintain.

The system has been installed at a number of industrial facilities, so high-voltage power lines and equipment don't usually affect wireless communication in the system.

### WIRED



$$U \approx E \times L \approx 60 \text{ V}$$

Electric field  $\curvearrowright$  Cable length

### WIRELESS



$$U \approx E \times L \approx 1.5 \text{ V}$$

Electric field  $\curvearrowright$  Antenna length

Our engineers took all the measures to protect the system from radio noise and bad signals:

**Smart Timing:** Devices communicate less frequently in standby mode to save energy. But when the connection is weak, they swiftly intensify communication to the expander for a rapid response.

**Signal Strength:** The transmission signal is usually dialed down for battery conservation,

but when interference strikes, the signal strength amps up to ensure a dependable connection.

**Frequency Flexibility:** Operating across 6 frequency channels within the 865-867 MHz range, the system automatically switches to backup channels when interference shows up. This secures consistent signal delivery.

These strategies combined bolster the system's resilience against a variety of interference types.



### Interference in Streletz-PRO: all you need to know

The video breaks down the myths and facts about the reliability of wireless communication in Streletz-PRO

<https://catalog.argus-spectr.ru/video/en/interference>



## Secure connection

The system goes the extra mile for security. It uses dynamic information encoding and a two-way authentication mechanism. This technology suppresses unauthorized tampering with the wireless system and device swapping. Such measures guarantee top-notch security and integrity throughout the wireless network.



## Temperature range – -30 to +55 °C

Our wireless system operates within a temperature range of -30 to +55 degrees Celsius. Additionally, the system incorporates an automatic frequency adjustment principle to account for devices operating in varying temperature conditions. This feature ensures optimal performance and communication stability across different temperature environments.

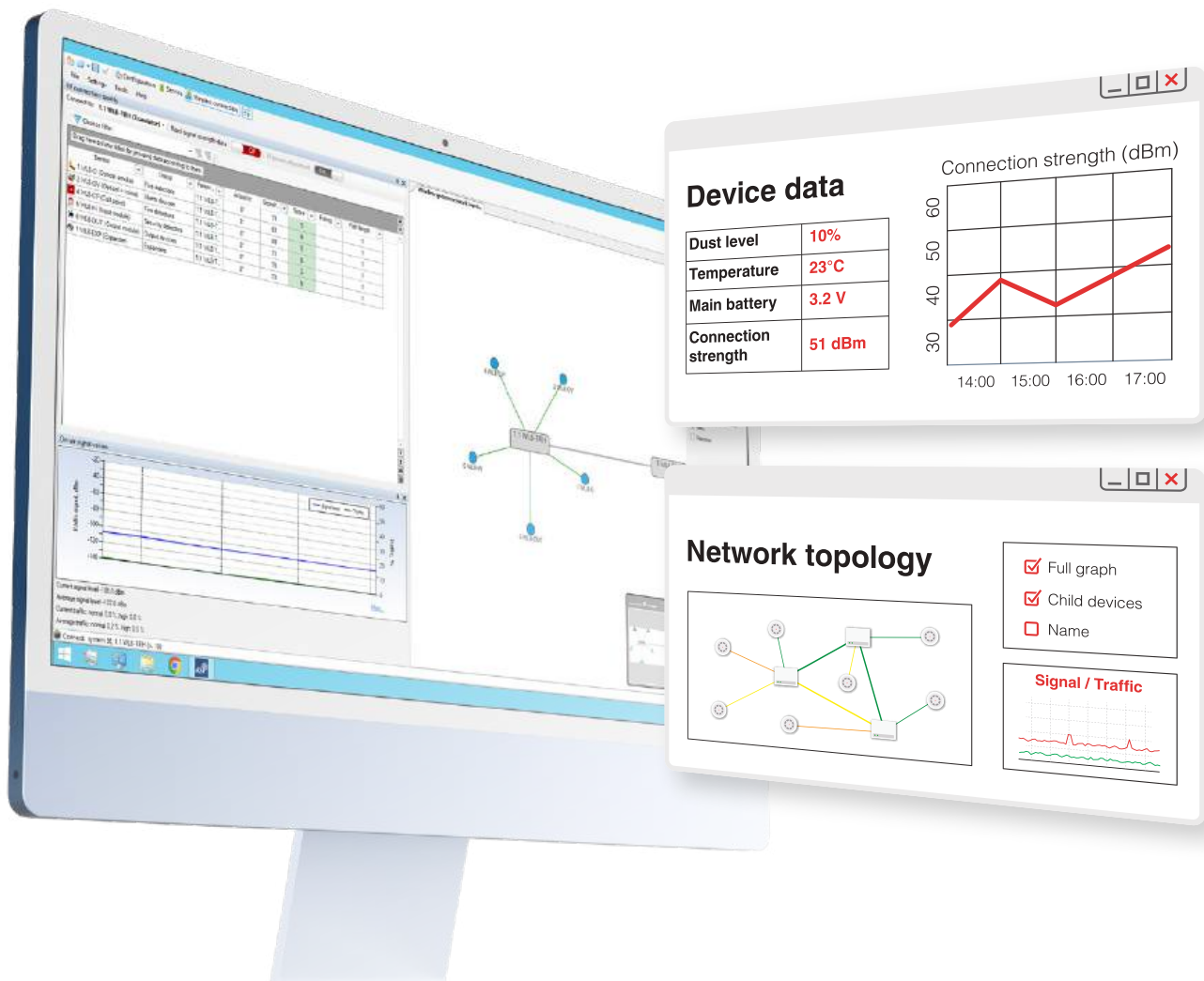


## Programming and software

Linking wireless devices to the network is incredibly easy in our system. All you need to do is press one button on the device so that the translator will recognize it and establish the connection. Mesh network technology takes care of the rest: the device will connect to the expander with the strongest signal and find the communication path to the translator.

After the initial programming, all the settings you change can be applied “over the air”. This makes it a lot easier to configure the system and make adjustments during setup.

The software provides full control over the wireless system. You can see the various measurements that the wireless devices make, such as battery voltage, the dust amount in the smoke chamber or the air temperature in the room. Plus, the software allows you to analyze the network topology and connection strength with wireless devices in real-time.





# PRODUCT CATALOGUE

A list of all equipment with a few highlights of the main features for each device.

# Control Panels



## BHR-WL8-PNL1

Control panel for small projects

-  2 low current outputs and one switch rated for 30V, 1A
-  Supports 2 SIM cards
-  Ethernet port
-  Requires 9-27 V power
-  Built-in battery



## BHR-WL8-PNL2

Control panel for big projects

-  3 outputs, 1 power output and 2 relay switches
-  Supports 2 SIM cards
-  Ethernet port
-  S3 interface
-  Requires 9-27 V power



## BHR-WL8-PNL3

Control panel for big projects

-  5 outputs and 2 power outputs
-  Built-in 220 V power supply
-  Optional module or GSM and Ethernet connection
-  Optional module for panel loop connection
-  Optional modules for extra inputs and outputs

## Expanders



### BHR-WL8-EXP

Expander module



2 low current outputs and one switch rated for 30V, 1A



=12/24V power version



### BHR-WL8-EXP 220

Expander module



IP65 protection



~220V power version

## Fire Detectors



### BHR-WL8-O

Wireless optical smoke detector



Patented smoke chamber: protection from dust, insects, and light



Supports drift compensation



## BHR-WL8-H

Wireless heat detector



3 different modes of analysing the temperature



## BHR-WL8-OH

Wireless multi-sensor detector



Patented smoke chamber



Supports drift compensation



3 different modes of analysing the temperature



## BHR-WL8-OS

Wireless optical smoke detector with built-in sounder



Sound pressure level at 1 m – 98 dB



Selection of 3 tones



## BHR-WL8-HS

Wireless heat detector with built-in sounder

-  Sound pressure level at 1 m – 98 dB
-  Selection of 3 tones



## BHR-WL8-OV

Wireless optical smoke detector with built-in voice annunciator and visual alarm device

-  Several detectors can be programmed as a dynamic evacuation system
-  Memory storage for 3 voice messages
-  Supports custom audio files
-  Sound pressure level at 1 m – 86 dB
-  Functions as a VAD



## BHR-WL8-B/IP65 BHR-WL8-B/IP54

Wireless beam detector

-  Two versions with 80 or 100 meters max distance
-  Laser pointer for easier adjustment
-  Automatically adjusts to accumulating dust



## BHR-WL8-FL

Wireless flame detector

-  Max range – 25 m
-  Dual sensor
-  Detection angle 90°
-  Adjustable bracket

## Call Points



## BHR-WL8-CP

Wireless manual call point

-  Reliable mechanism
-  Water-proof version available



## BHR-WL8-CP (SE) / (EE) / (FS)

Wireless manual colored call points

-  Green (EE) – emergency door release
-  Orange (SE) – smoke & vent control
-  Yellow (FS) – suppression system activation

# Alarm Devices



## BHR-WL8-V

Wireless voice annunciator

-  Sound pressure level at 1 m – 87 dB
-  Memory storage for 3 voice messages
-  Supports custom audio files



## BHR-WL8-SND

Wireless sounder

-  Two versions: standard and compact
-  Sound pressure level at 1 m – 92 dB
-  Selection of multiple tones
-  Works in sync with other sounders



## BHR-WL8-L

Wireless light annunciator

-  Additional inserts included: fire, call, exit left/right
-  Can be mounted on a wall, a ceiling, or hung by wires.



## BHR-WL8-EXPL BHR-WL8-EXPL/220

Wireless light annunciator with expander module

-  Powered by a PSU or batteries
-  Additional insert signs included: fire, alarm, go left/right
-  4 brightness levels
-  4 modes of operation



## BHR-WL8-EXPV

Wireless voice alarm module

-  Supports 4Ω and 8Ω speakers
-  2 outputs, 10W on a 4Ω load
-  Built-in battery
-  Memory storage for 3 voice messages
-  Supports custom audio files
-  Built-in expander



## BHR-WL8-PA BHR-WL8-PA/S

Wireless personal alarm devices

-  Personal emergency notification
-  Man down alert
-  Location control
-  Text message alerts
-  Panic button
-  Two versions: with and without a screen

# Fire Suppression



## BHR-WL8-OUT

Wireless single output module

-  One output ~250V / =30V, 8A
-  External fault input



## BHR-WL8-OUT/2

Wireless power output module

-  One 1 A power output
-  Output circuit control
-  External fault input



## BHR-WL8-DA/220

Wireless output module for 220 V fire/smoke damper actuators

-  Max current – 3A
-  Monitors the actuator and power circuits
-  4 inputs for monitoring the state of the damper



## BHR-WL8-DA/24

Wireless output module for 24 V fire/smoke damper actuators

-  Max current – 3A
-  Monitors the actuator and power circuits
-  4 inputs for monitoring the state of the damper

## Input Modules



## BHR-WL8-IN

Wireless input module

-  One programmable input for conventional detectors and other equipment

## Security Detectors



## BHR-WL8-PIR

Wireless passive infrared detector

-  Universal mount
-  Protection from small animals
-  Two versions for volumetric and surface detection



## BHR-WL8-PIR/C

Wireless passive infrared detector

-  Universal mount
-  Protection from small animals
-  Two versions for volumetric and surface detection



## BHR-WL8-GB

Wireless glass broken detector

-  Detection of breakage of six types of glass
-  Range - 6 m
-  Input for connecting a security loop

# Intrinsically Safe Devices



## BHR-WL8-O (Ex)

Wireless optical smoke detector

-  Patented smoke chamber: protection from dust, insects, and light
-  Supports drift compensation
-  IEC classification:  
0Ex ia op is IIC T6 Ga X



## BHR-WL8-H (Ex)

Wireless heat detector



3 different modes of analysing the temperature



IEC classification:  
0Ex ia op is IIC T6 Ga X



## BHR-WL8-OH (Ex)

Wireless multi-sensor detector



Patented smoke chamber



Supports drift compensation



3 different modes of analysing the temperature



IEC classification:  
0Ex ia op is IIC T6 Ga X



## BHR-WL8-CP (Ex)

Wireless manual call point



Reliable mechanism



Water-proof version available



IEC classification:  
0Ex ia IIC T6 Ga X / Ex ta ia IIIC T<sub>200</sub> 50°C Da X



## BHR-WL8-FL (Ex)

Wireless flame detector

↔ Max range – 25 m



Dual sensor



Detection angle 90°



Adjustable bracket



IEC classification:

0Ex ia IIC T6 Ga X / Ex ta ia IIIC T<sub>200</sub> 80°C Da X



## BHR-WL8-EXP (Ex)

Expander module



Ingress protection rating – IP65



IEC classification:

0 Ex ia IIC T6 Ga X / Ex ta ia IIIC T<sub>200</sub> 80°C Da X

## Auxiliary Equipment



## BHR-PS-12/2A

Power supply



Accommodates up to 6 functional blocks



A version with a built-in 2A power supply available



## BHR-PS-12/0,5

Power supply



Expanders and other modules can be installed on the front panel



## BHR-FWR

Device for updating firmware of wireless devices



Connects to a PC via USB



Flash-drive form factor



## BHR-CU-1

Charger for BHR-WL8-PA



Can be used to record text messages into the bracelet



## BHR-FDP

Fire detector puller



Holder made of dense rubber



## Outdoor MCP case

Outdoor case for call points



Protection from precipitation,  
UV radiation and impact



## BHR-STT

Smoke testing tool



Compatible with various  
test aerosol cans

# INTELLIGENT FIRE DETECTION

Addressable fire equipment – the features, the advantages, and the product range.

# Technical Features



## Up to 240 devices in the loop

There are no standalone short-circuit isolators or communication modules that would occupy the address space.



## Detection of duplicate addresses

If devices with the same addresses are connected to the loop, the panel will issue a warning, and the built-in LEDs on the devices will turn on.



## Maximum current in the loop – 300 mA

The greater the maximum current, the more alarm devices can be connected to the loop.



## Interference resistance

This is achieved through high voltage in the signal line (36 V) and pulse width modulation.



## Reliable data exchange

Control panel repeatedly pings the devices ensuring delivery of fire signals without any delays. Connection integrity is constantly monitored and communication parameters are adjusted if needed.



## Comprehensive product range

The range covers all needs of fire protection: smoke, heat, and beam detectors, sounders, MCP's, VAD's, I/O modules and equipment for smoke vent system control.

## Built-in Isolator

Short Circuit isolator is a device that stops an entire control panel loop from going down when a short-circuit happens. It does this by isolating the part of the loop where the short occurred, keeping it separate from the rest of the circuit. Once the short-circuit issue is fixed, the isolator automatically reconnects the loop, ensuring smooth operation. Fire detectors, alarm devices, and I/O modules all come with an integrated short circuit isolator. This solution has several important advantages:

**No separate devices are required.** This means reduced equipment costs, and installation becomes slightly more convenient and faster.

**No wasted addresses.** The built-in isolators do not occupy valuable address pool in the control panel.

**Easier design.** System designers don't have to strategically put isolators in the loop to ensure reliability.



# Fire Detectors



## BHR-SL-O

Addressable optical smoke detector



Patented smoke chamber: protection from dust, insects, and light



Supports drift compensation



## BHR-SL-H

Addressable heat detector



3 different modes of analysing the temperature



## BHR-SL-B

Addressable beam detector



100-meter max distance



Laser pointer for easier adjustment



Supports drift compensation

## Call Points



### BHR-SL-CP

Addressable manual call point

-  Reliable mechanism
-  Weather-proof

## Fire Suppression



### BHR-SL-DA/24 BHR-SL-DA/220

Smoke Vent Damper

-  Two versions for ~220V and =12/24V
-  Max current – 3A
-  Monitors the actuator and power circuits



### BHR-SL-OUT

Output module

-  One output ~250V / =30V, 8A
-  External fault input

## Input Modules



### BHR-SL-IN

Addressable input module



One programmable input for conventional detectors and other equipment

## Alarm Devices



### BHR-SL-SND

Addressable sounder



Sound pressure level at 1 m – 92 dB



Selection of multiple tones



Works in sync with other sounders



### BHR-SL-L

Addressable light annunciator



Additional insert signs included:  
fire, alarm, go left/right

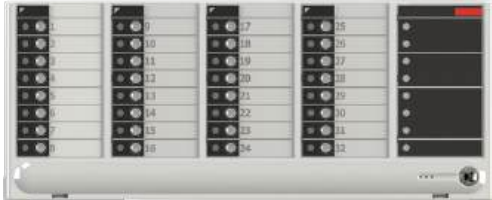


4 brightness levels



4 modes of operation

# Control Modules



## BHR-SL-CM32

Control module

-  32 addressable zone/device indicators
-  32 programmable buttons
-  Touch Memory interface input
-  Slots for changing labels
-  Requires 9-27 V power

# Auxiliary Equipment



## BHR-Base

Detector base

-  Ballast resistor terminal
-  Remote indicator terminal
-  Locking mechanism for tamper protection

5



## CLOUD SERVICE

Cutting-edge cloud technology for monitoring, controlling, and programming a fire system on-the-go.

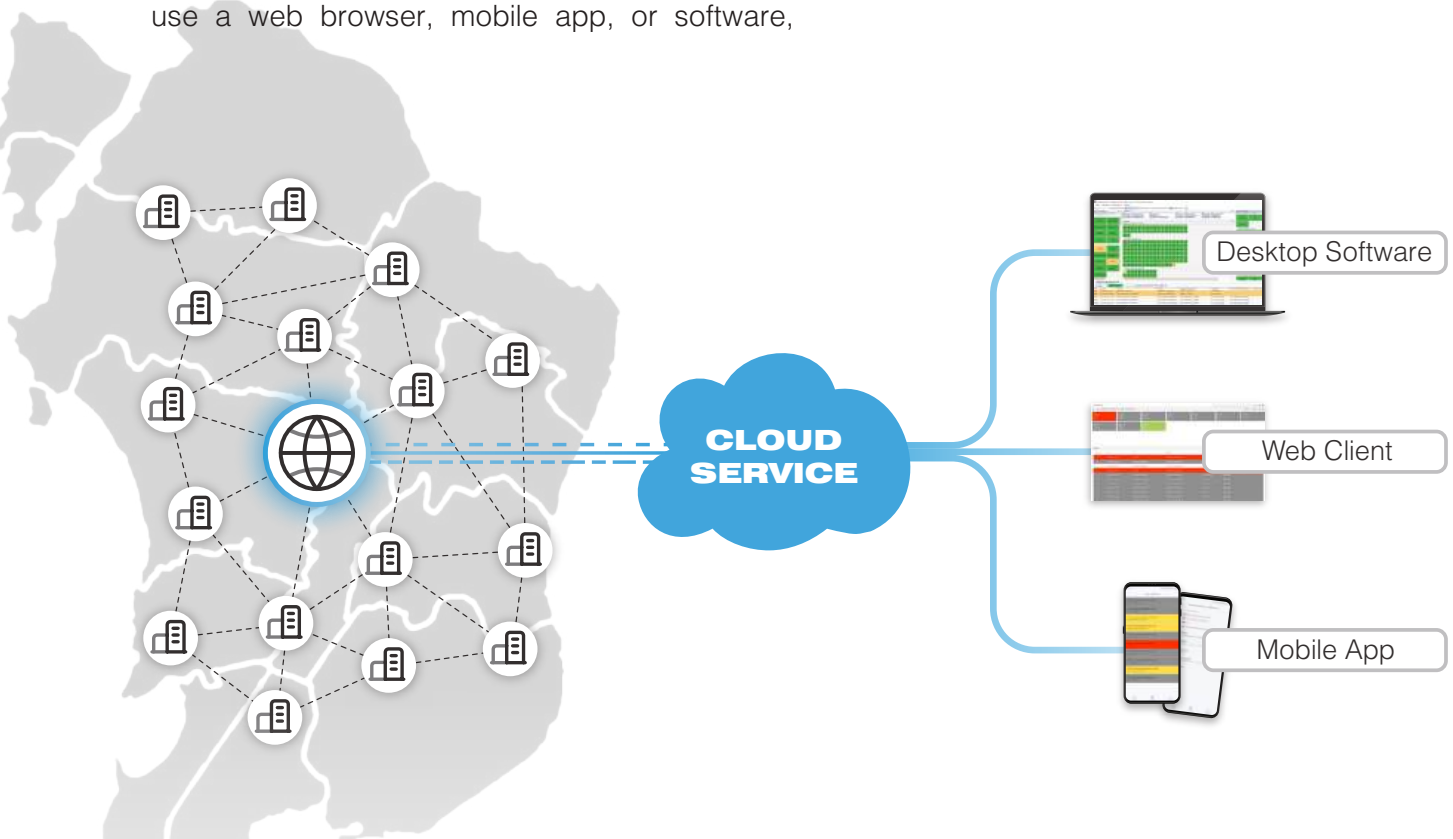
# Cloud Service

The cloud service is what sets apart our system from other fire alarm solutions. The service provides access to installed systems for the servicing organization and other authorized personnel.

Through the cloud service, installed systems are continuously monitored, and any malfunctions are promptly identified and resolved. You can use a web browser, mobile app, or software,

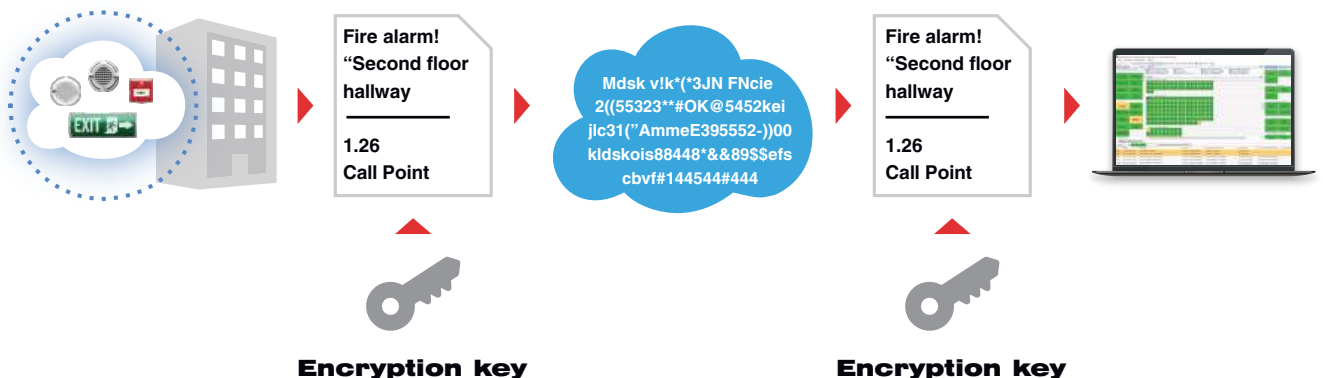
and your data remains encrypted and secure on servers. You can even remotely track things like smoke, temperature, dust levels, and more.

The fire alarm system's real-time status is just a smartphone away for those in charge of safety. This cloud-based approach assures steady supervision and quick action, keeping the fire alarm system dependable and effective.



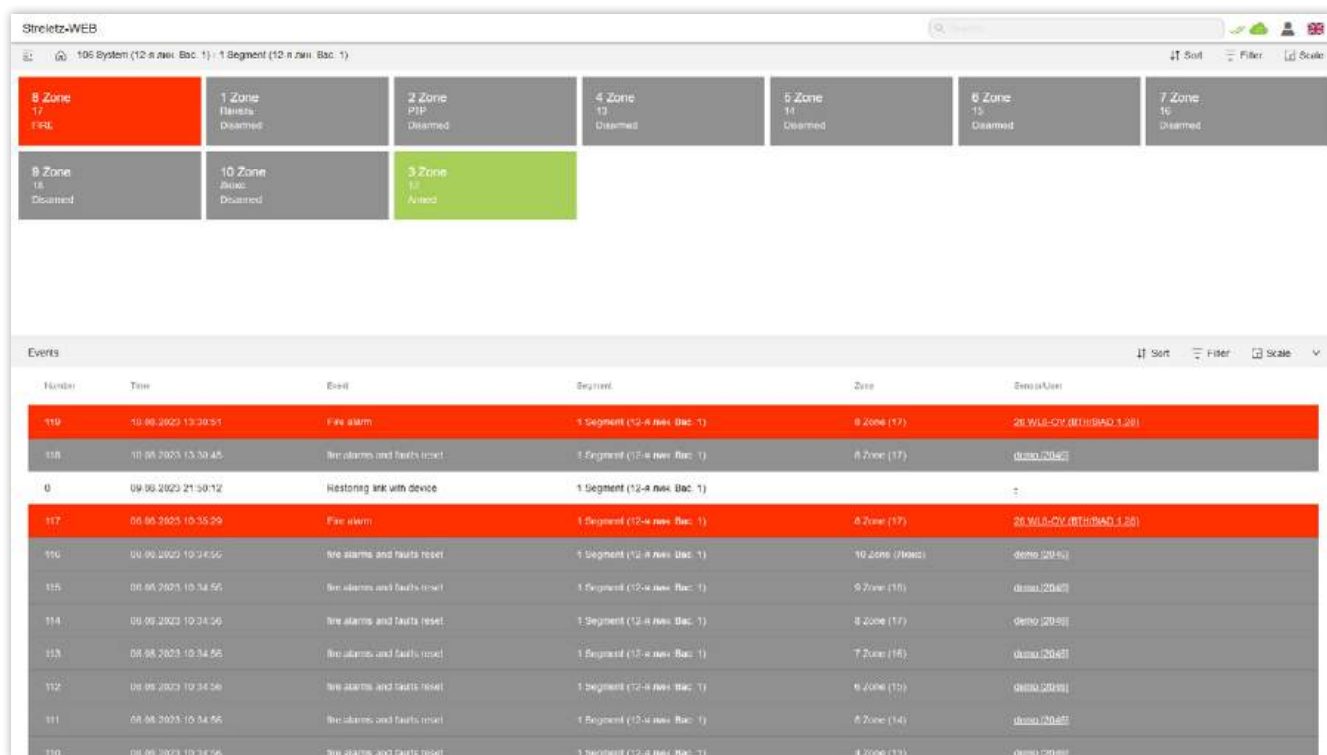
Fortified servers and impenetrable end-to-end encryption ensure data safety up to modern standards. Your valuable information is shielded at all stages, ensuring uncompromising protection. With state-of-the-art secure servers,

your data is safe from unauthorized access, and our robust end-to-end encryption guarantees confidentiality. You can trust our technology to keep your sensitive data locked away, setting new standards for cloud service security.



To get going with the service, simply log in to the web client from your workstation using a web address. This becomes your control hub for systems in different buildings. As you arrive at the main page, you'll see all your connected systems.

With color-coded elements, it's a breeze to see how each system is doing. This layout offers a handy way to overview all connected systems, letting you efficiently monitor and handle various premises.



Put the mobile client on your phone for on-the-go help. This app guides you and your client through any hiccups, even if you're not at the office. When there's an alarm or issue, you'll instantly know thanks to push notifications.

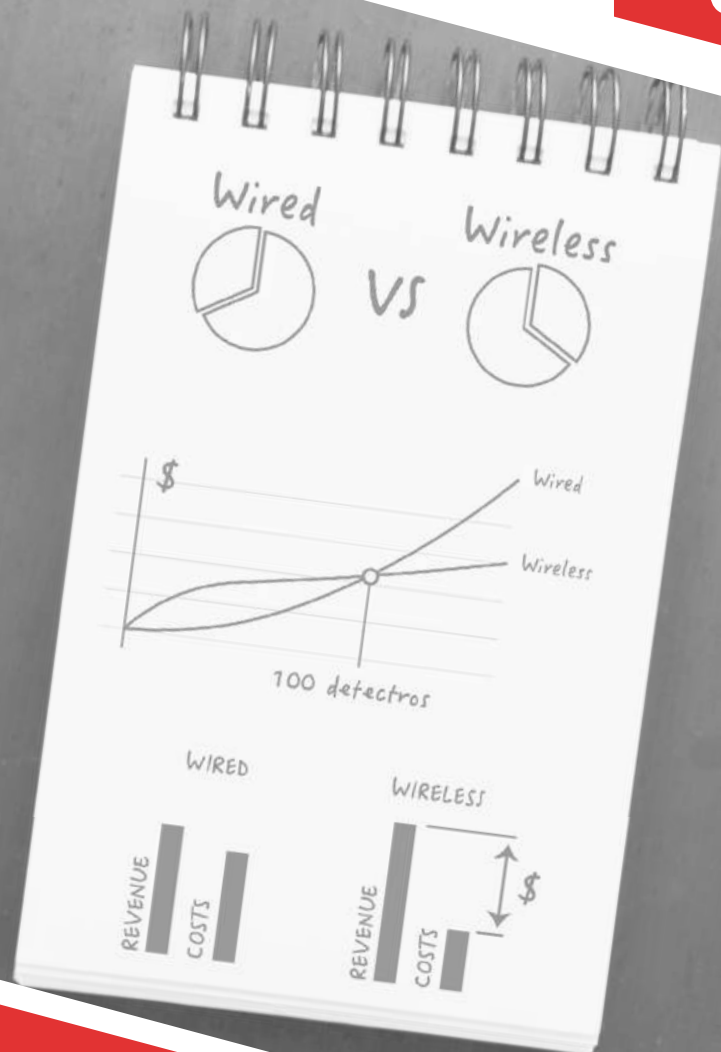
For a deeper look into the system's status, communication, and analog values, the software comes into play. To make this happen, save a configuration file from each installed system. This boosts your power to keep a close eye on and handle systems, making sure you swiftly tackle and solve any problems.



## The Streletz-Cloud Service

A video about the features of the cloud service, where you can use it and what you need to get started

<https://catalog.argus-spectr.ru/video/en/cloud>



## THE BUSINESS SIDE OF WIRELESS SYSTEMS

A breakdown of the common myth that wireless fire alarm is too expensive and bad for business, as well as some arguments proving that the opposite is true.

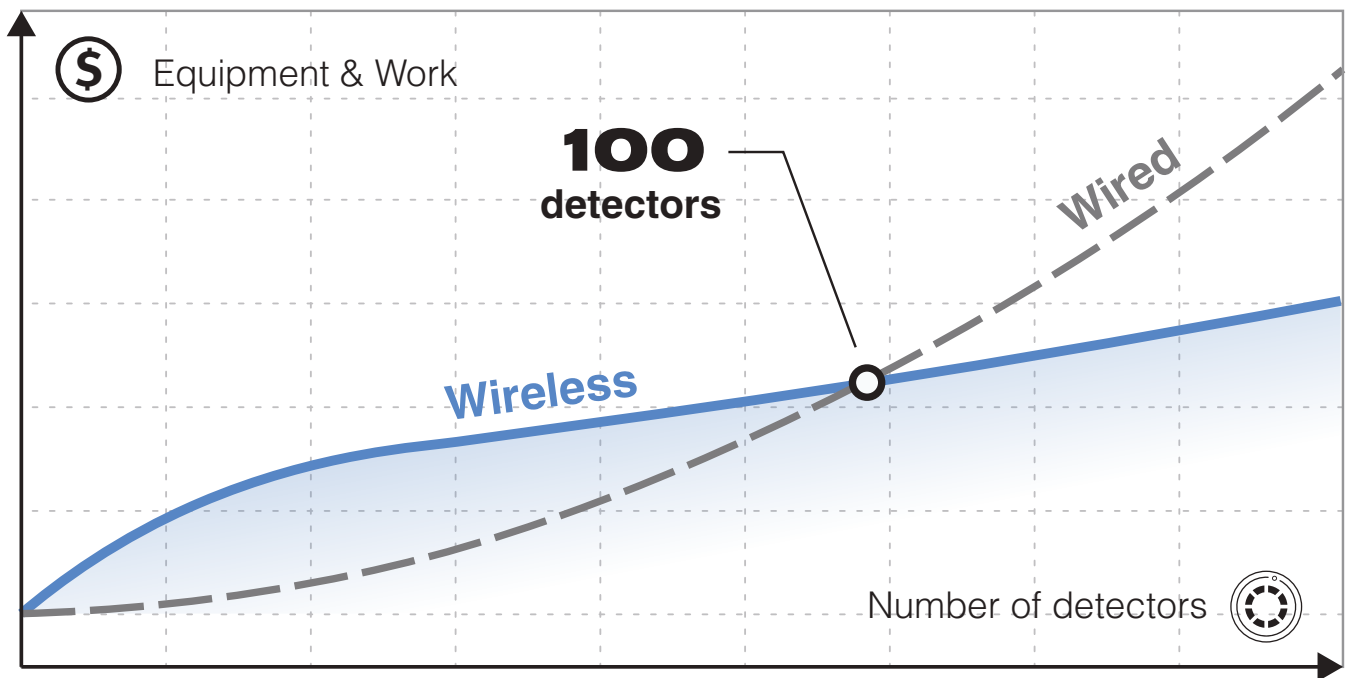
## ➤ Compare turnkey price

Comparing wired and wireless systems by looking only at equipment costs does not give a complete picture. A wireless detector is usually 1,5-2 times more expensive than a wired one. Even when we consider fire-resistant cabling, the equipment cost on paper for the same place is usually lower for wired systems. To get the real picture, we need to think “turnkey,” meaning equipment plus installation.

If we graph the cost per square meter, it gets interesting. On the X-axis, we have the number

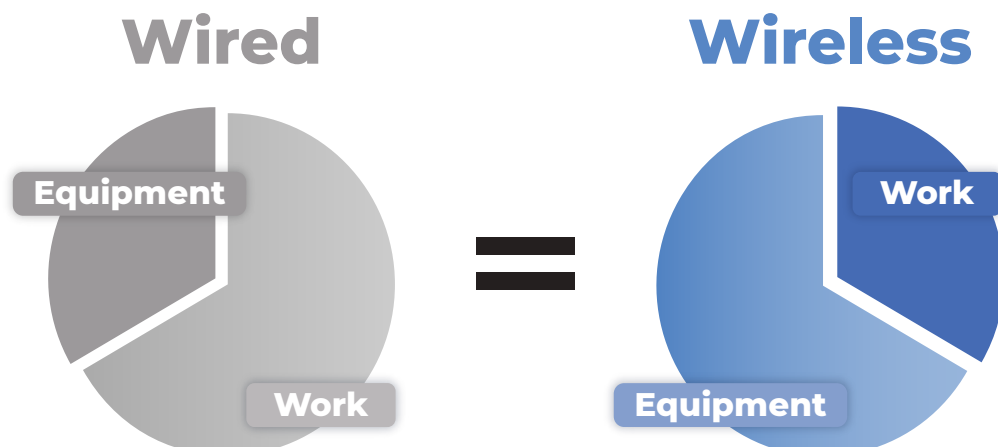
of sensors. For smaller spaces like apartments or homes, wired systems tend to be cheaper. There are fewer wires, fewer sensors, less labor. And the difference in price really makes a difference for projects like this. But as the number of sensors increases, the cost advantage of wireless systems becomes apparent. Beyond around 100 sensors, the cost of the Streletz-PRO wireless system ends up a great deal lower than wired.

This shows how the overall cost situation changes as you add more sensors, making wireless systems like Streletz-PRO more economical in situations with a large number of sensors.



Let's also talk about the pricing. In wired systems, labor eats up about two-thirds of the cost, while equipment takes up the rest. But in wireless systems, the situation is the opposite – equipment costs make up about two-thirds, and labor costs are a third of the total project expenses.

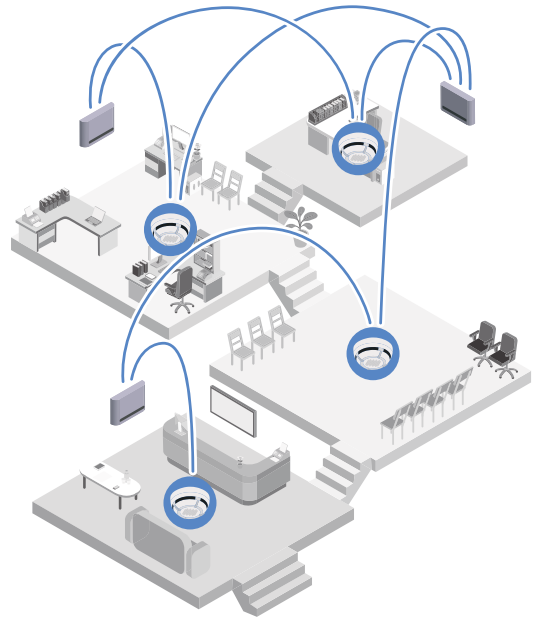
Now, why switch to wireless if the total cost doesn't change? Well, the key lies in installation. Setting up a wireless system demands much less time and effort, often way less than wired systems. This installation efficiency is a strong plus for wireless.



## Designing is simple

The Streletz-PRO wireless system streamlines the design process, taking half the time compared to wired systems. With a wireless system, you don't have to deal with wires, saving time on tasks like finding places for trunking, creating electrical diagrams, and managing cable logs. Fire alarm engineers can confirm that going wire-free is a true relief.

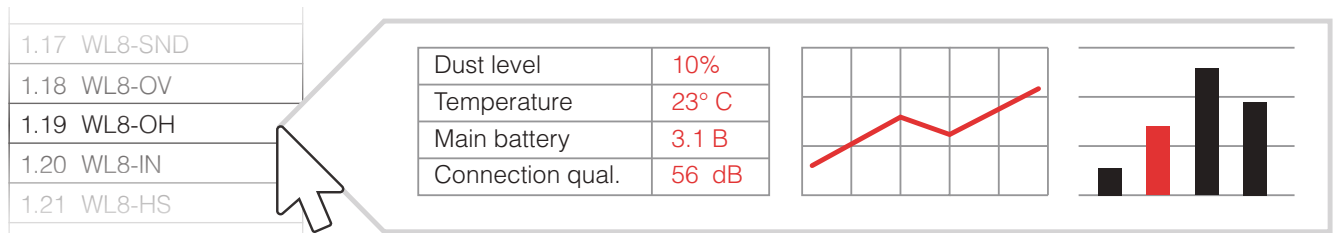
Although there are subtleties in the Streletz-PRO design, it's much simpler than other systems that don't support mesh network. You don't have to manually specify the network topology while making project documentation, the system will organize itself once it's been installed.



## Cost of ownership

Total cost of ownership is a parameter that customers are paying more and more attention to. The availability of remote monitoring and batteries lasting the entire operational lifespan effectively addresses a significant concern, such as "I'll be spending a fortune on batteries."

Moreover, a system should work without needing constant technician attention. This becomes clear when dealing with "nuisance events" like cable breaks or false alarms. These pop up often in wired systems. Cables corrode, low-quality sensors create false alerts. With Streletz-PRO, nothing breaks because there are no cables, no false alarms.



## The business side – summary

### Wired

### Wireless

#### Reliability



Loop connection



Mesh network

#### Project timeframe



Several weeks



Several days

#### Worker qualification



Requires experience



Easy to install

#### Project cost



Costly



Cost effective



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## CASE STUDIES

Just a few examples of how Streletz-PRO can be installed in any type of building and how it can shine where traditional wired systems fail.

100

Currently, Argus Spectrum technologies protect more than 200,000 facilities in different time zones and climates. Streletz-PRO was used in a wide range of projects, from villages and private homes to airports, factories, huge medical facilities, and shopping malls.

Our manufacturing capacity reaches up to 200,000 devices every month, and our sales have surpassed the milestone of 12 million wireless devices. The widespread acclaim of the Streletz brand serves as a testament to the exceptional quality and dependability of our products.



# Project Videos

## Sennaya Shopping Mall



Sennaya is a popular shopping and entertainment center for many St. Petersburg residents. The mall is visited by over 30,000 customers daily. The primary challenge of the project was to install a new fire system without closing the retail areas and offices. A hybrid solution was chosen for this project, combining wireless and wired devices. Approximately 3000 wireless and 1000 wired devices were installed across a total area of 59,000 square meters.



### Streletz-PRO in the Sennaya mall

A video report on retrofitting 59,000 square meters of retail space without taking it out of operation.

<https://catalog.argus-spectr.ru/video/en/sennaya>

## Solnechnaya Dolina Ski Resort



The Streletz-PRO system protects the largest ski resort in Russia, "Solnechnaya Dolina". Nearly 5,500 wireless devices have been installed. Streletz-PRO allows to rapidly and unobtrusively equip new facilities within the resort. The system features a dynamic evacuation system based on the WL8-OV devices, that helps quickly orient individuals in case of a fire. The system ensures monitoring of all buildings via the cloud service and enables notifications to the technical staff.



### Streletz-PRO in the Solnechnaya Dolina Ski Resort

A video report on the operation of Streletz-PRO in a hotel complex of a ski resort.

[https://catalog.argus-spectr.ru/video/en/solnechnaya\\_dolina](https://catalog.argus-spectr.ru/video/en/solnechnaya_dolina)

## Innopolis Dormitories



Innopolis is a newly built city with 7,000 residents and 300 IT companies. In 2022, the wireless system Streletz-PRO was chosen for the buildings of the university campus. This includes 4 multi-story residential buildings occupied by more than 1,000 students. In three new buildings, the wireless system was incorporated at the construction stage, while in the previously built dormitory, Streletz-PRO replaced the Honeywell fire alarm system.



### Streletz-PRO in Innopolis

A video report on installing Streletz-PRO in newly built dormitory buildings for 1000+ students

<https://catalog.argus-spectr.ru/video/en/innopolis>

## Akademicheskyy Residential Complex



Akademicheskyy is the newest district of Yekaterinburg with a total area of 1.3 thousand hectares. The implementation of Streletz-PRO was carried out several times faster than if the project had been done with wired equipment. For instance, equipping one 16-story entrance with 8 apartments per floor took 3 months for the design stage, 7 days for programming, 1 month for installation by a team of 4 people, and 3 days for commissioning.



### Streletz-PRO in the Akademicheskyy Residential Complex

A video report on a massive Streletz-PRO project in a residential complex with 100+ buildings.

<https://catalog.argus-spectr.ru/video/en/academic>



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