

STRELETZ-PRO WIRELESS FIRE SYSTEM

200 000 installations around the world

9 000 000 wireless devices sold

Successfully passed tests in 83 countries



the company



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About Us

The company was founded in the city of St. Petersburg in 1993 by two leading scientists working in the field of experimental radio physics and electronics, operating within the faculty of Peter the Great Polytechnic University. Our products have a proven record of performance, quality, and reliability with more than 200,000 systems installed worldwide.

Certification

Argus Spectrum wireless fire solution complies with the fire regulations of 83 countries including the Russian Federation, EU, the UK, India, Dubai and Australia.

Our close collaboration with the specialist universities of St. Petersburg enables us to develop and apply state of the art technology within our product program. A continuous program of research and development is led by a team of 50 highly qualified engineers delivering a comprehensive range of products to our global partners. Argus Spectrum has been recognized and presented with 2 prestigious awards from the Government of the Russian Federation in the field of science and technology.

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.

Projects

Argus Spectrum products are protecting significant and highprofile installations including the world-famous Hermitage and the Medical Academy in St. Petersburg incorporating more than 20,000 wireless devices. In 2020–2021 more than 30 newly constructed COVID-19 hospitals all over Russia were protected by Argus Spectrum advanced wireless fire detection system. All the hospitals were built in record time while the first 17 of them were constructed within 60 days. More than 60,000 wireless devices were installed in the new medical centers.







ARGUSSPECTRUM

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

Research and Development

Production

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The Streletz-PRO wireless fire alarm system successfully passed tests and complies with the fire regulations of 83 countries including the Russian Federation, EU, the UK, India, Dubai and Australia.



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	Requirements / standards
EN 54–3	Fire alarm devices – Sounders
EN 54–5	Heat detectors – Point heat detectors
EN 54-7	Smoke detectors – Point smoke detectors using scattered light, transmitted light or ionization
EN 54–11	Manual call point
EN 54–17	Short circuit isolators
EN 54–18	Input/output devices
EN 54-23	Visual alarm devices
EN 54-25	Components using radio links
EN 54–29	Multi-sensor fire detectors - Point detectors using a combination of smoke and heat sensors
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services
EN 50130-4	Audio/Video, information and communication Technology Equipment - Part 1: Safety Requirements
2011/65/EC	RoSH directive including Directive (EU) 2015/863
	Dubai Civil Defense Approval
AS ISO 7240.3	Audible alarm devices
AS ISO 7240.5	Point type heat detectors
AS ISO 7240.7	Point type smoke detectors using scattered light, transmitted light or ionization
AS ISO 7240.11	Manual Call Points
AS ISO 7240.15	Point type fire detectors using scattered light, transmitted light or ionization sensors in combination with a heat sensor
AS ISO 7240.18	Input/output devices
AS ISO 7240.23	Visual alarm devices
AS ISO 7240.25	Components using radio transmission paths
TR EAEU 043/2017	Requirements for Fire safety and Fire Extinguishing Equipment



The Streletz-PRO product range is fully compliant to the technical regulations of the Eurasian Economic Union TR EAEU 043/2017 Requirements for Fire safety and Fire Extinguishing Equipment



















PRO STRELETZ - IS





- Wired and wireless notification system
- $((\square))$ Wired and wireless security system
- ((f))) **Personnel monitoring and alert system**

SYSTEM ARCHITECTURE

Translators and expanders

The translator module connects to the loop of a fire control panel, receives signals from wireless devices, and translates them to the panel. In order to expand the range of the network, expander modules are placed throughout the building. Signals from wireless devices can be received by the expanders, then travel through multiple expanders, eventually reaching the translator module.

Mesh network

Streletz-PRO supports the self-configuring mesh network technology, which means that detectors are not assigned to individual expanders, they choose their own parent expander, and all communication paths in the system are established automatically. The advantage of the mesh network is that you don't have to manually specify the network topology, you only need to position the expanders throughout the building based on their connection radius, and the network will automatically arrange itself in the most optimal way. This technology significantly speeds up the installation procedures.







Streletz-PRO advanced features Mesh network XĨĪŇ |+(0) 10 – year 6 battery life 1 200 m wirelessly communication range



1 920 devices system capacity



3 – second activation delay



Cloud service



Mesh network

Self-configuring mesh network technology in Streletz-PRO is a new and unique level of reliability:

- each device automatically chooses its parent expander;
- expanders automatically form a network for delivering information to the main control panel.

Self-configuring mesh network technology provides:

- high level of reliability;

- automatically adapting to changing operating conditions: all devices automatically choose a parent expander depending on the quality of connection;

- extended information system capacity allowing complex issues to be managed and solved;
- a simple design and commissioning process;

The system will automatically decide which device connects to which expander and build a wireless network.

Advantages for installers:

- simplified design and planning process;
- faster commissioning process;
- solutions to complicated problems and challenges.









Automatic reconfiguration of communication routes





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Automatic reconfiguration of communication routes



Unavailable communication route

Shortest redundant route

10-year battery life

· Every device in the system monitors the state of its primary and backup battery and the Streletz-PRO software is designed to provide the user efficient and planned battery replacement.

 Signal delivery confirmation and automatic adjustments to transmission power.

· Software monitors the state of the batteries, which allows planning battery replacement ahead of time.



oatteries Streletz-PRO

1200 m - communication range

The maximum communication range in open space between expanders is 2,000 meters, between an expander and a child device is 1,200 meters. This is significantly higher than the communication range of most wireless fire detection systems on the market.

Wide operating temperature -[]+ range

Streletz-PRO operates within a temperature range of -30 to +55 degrees. The system implements the principle of automatic frequency adjustment when the devices are in temperature modes.

((•)) Cryptographic protection

Streletz-PRO implements dynamic information encoding and dynamic two-way authentication mechanism to eliminate the possibility of tampering with the radio system

Changing settings wirelessly

wirelessly.

(J High level of noise immunity

One of the most important parameters of any system The inducing voltage is proportional to the length of the conductor (in wired systems it is the cable length, is its level of resistance to external interference and electromagnetic interference. in wireless systems it is the antenna length), which means that wireless detectors are virtually immune to the effects of inducing voltage.

Cable lines often serve as antennas for electromagnetic interference, and the resulting voltage in the conductors leads to false alarms.





1920 devices

System capacity:

- 1920 wireless devices;
- 127 expanders:
- 512 zones

Up to 1920 wireless devices can be installed in a single radio network without mutual interference. Such a number of devices in Streletz-PRO allows to solve a more complex class of tasks and equip various types of objects.

3-second activation delay

All alarm notification devices activate in under 3 seconds. All parameters of the system devices are programmable This ensures guick and safe evacuation from the building in the event of an emergency. The activation is synchronized.

Cloud service

When discussing Argus Spectrum technologies, particular attention should be given to the Streletz-Cloud cloud service The service provides access to installed systems for the servicing organization and other authorized personnel.

The Streletz-Cloud allows control and monitoring of the system from anywhere in the world with Internet access via WEB-client, a mobile application (for iOS and Android) and desktop software.









FEATURES

Remote control

- view system status and event log;
- · resetting fire alarms and faults;
- control of alarm devices.

All necessary control functions are available remotely for all connected systems.

Remote programming

No more on-site visits are required to make changes to the system configuration.

The Streletz-Cloud allows remote programming of the device parameters, changing the system algorithm, user lists and user access rights.



SERVICE INFORMATION SECURITY

Data transmission over the internet is protected by end-to-end encryption. Fault tolerance of the Streletz-Cloud service is ensured by triple hot and cold redundancy.

Information systems standards ISO 27001, ISO 27017 AND ISO 27018

CONNECTING TO STRELETZ-CLOUD

Via web browser

The web client at cloud.streletz.ru allows you to monitor systems, view event logs and manage systems associated with the user account.

Via mobile application

The system app for iOS and Android has WEB client functionality in an interface adapted for smartphone screens. Events from all connected objects are sent in the form of push notifications, allowing the user to receive timely information about alarms and faults in the object.

Via software

The Streletz-Cloud can be used to connect to the system in desktop software. All functions of the system can be accessed remotely! Battery level, dust levels in detectors, quality of communication, changing settings and operating tactics, analysis and selection of event logs - all this and much more is available. The Streletz-Cloud can be accessed at any time and from any location.

Protection against unauthorised access to the system - dual authentication: for access to the cloud service and for authorisation in the system.

Technical monitoring:

- dust level;
- power supply voltage;
- system faults.

Remote monitoring of the technical condition of the system enables maintenance to be planned in advance and ensures a rapid response to any faults.



Wireless Intelligent Addressable

TRANSL	ATOR	/ EXPANDER MODULES		DEVICES	
	•	ARG–WL8–TRV – wireless translator module	(E)	ARG–WL8–OS – wireless optical smoke detector with built–in sounder	
• • • 400-002-027	•	ARG–WL8–EXP – wireless expander module	B	ARG–WL8–HS – wireless heat detector with built–in sounder	
←		ARG–WL8–EXPN – wireless fire exit sign with built–in expander	6	ARG–WL8–OV – wireless optical smoke detector with built–in voice alarm speaker and visual alarm device	
FIRE DE	тесто	DRS			
.)	ARG–WL8–O – wireless optical smoke detector			ARG–WL8–SND – wireless sounder	
	ARG	i-WL8-H - wireless heat detector	$\overline{\mathbf{\cdot}}$	ARG–WL8–V – wireless voice alarm speaker	
			← 🔁	ARG-WL8-N – wireless exit sign	
	ARG sens	i–WL8–OH – wireless combined sor detector	•	ARG–WL8–PNBD – wireless personal notification bracelet (with display/ without charger and GPS)	
	ARG	–WL8–B – wireless optical beam			
	dete	ctor	MANUA	L CALL POINTS	
	ARG dete	i–WL8–B1 – wireless optical beam ctor	***	ARG–WL8–CP – wireless manual call point (red)	
	ARG	–WL8–FL – wireless flame detector –WL8Ex–FL – wireless intrinsically		ARG–WL8–CP – wireless manual call point (green)	
4	safe	flame detector		ARG-WL8-CP – wireless manual call point (orange)	
SECURI	TY DE	TECTORS	CONCERCION DE LA CONCERCIÓN DE LA CONCER	ARG–WL8–CP – wireless manual call	
	Arfa brea	–PRO – wireless acoustic glass k detector	+8+	point (yellow)	
	Ikar- dete	-PRO – wireless passive infrared ctor	INPUT / (OUTPUT MODULES	
	ARG and	i–WL8–IN – wireless input module magnetic detector	ŀ	ARG-WL8-IN – wireless single input module	
	Met	a-PRO – wireless inertial sensor		ARG-WL8-OUT – wireless single output module	
	Grad sens leak	dus–PRO – wireless temperatur sor / Voda–PRO – wireless water sensor			
Ì	Brei	ok – PRO – wireless key fob			

Wired Intelligent Addressable

FIRE DETECTORS		INPUT / OUTPUT MODULES		
0	Aurora–DI v.2 – intelligent optical smoke detector with short–circuit isolator	•	MV1–I – intelligent single input module	
	Aurora-TI v.2 - intelligent heat detector with short-circuit isolator		IB1–I – intelligent single relay module	
C)	sensor detector with short-circuit isolator	ARG–FWR – firmware programm		
Strengthened base – intelligent				
A CAR	detectors base		Aurora–3P – handheld programming	
•	Amur I intelligent entirel beem			
• • •	detector		ZU-1 – individual charging device for ARG-WL8-PNBD	
		1	Puller Aurora – puller for the point detectors	
	Sirena–I – sounder		Reflector unit – reflector unit for ARG–WL8–B, Amur–I	
MANUAL CALL POINTS			Bracket unit – bracket unit for ARG–WL8–B, Amur–I	
	IPR-I – intelligent manual call point (red)	° al		
	IPR-I – intelligent manual call point		BP-12/2A – power supply unit	

MANUAL CALL POINTS		
	IPR–I – intelligent manual call point (red)	
*	IPR–I – intelligent manual call point (green)	
	IPR–I – intelligent manual call point (orange)	
	IPR–I – intelligent manual call point (yellow)	

ARG-WL8-TRV Wireless translator module

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The translator module allows fully intelligent and seamless integration of the wireless devices alongside standard wired devices

FEATURES:

- Loop powered
- · Dynamic routing for all expanders and field devices
- · Bi-directional wireless communication
- · Capable of linking up to 240 fully intelligent wireless field devices
- Supports full device intelligence
- Operating temperature range: -30 °C to +55 °C

ARG-WL8-O

Wireless optical smoke detector





Wireless expander module



ARG-WL8-EXPN

Wireless fire exit sign with built-in expander



method to increase radiocommunication range beyond that possible from a single translator by relaying the radio communication to further expanders or directly to the wireless field devices.

The wireless expander module provides a convenient

FEATURES:

- · Dynamic routing for all expanders and field devices
- Bi-directional wireless communication
- · Capable of linking up to 240 fully intelligent wireless field devices
- Supports full device intelligence
- 2 built-in inputs/outputs
- Operating temperature range: -30 °C to +55 °C

The wireless expander with notification device is an output device which is activated in case of fire or emergency situations. The wireless expander with notification device is a device that has two main uses:

Expand the area coverage of a wireless system. Operate the same way as wireless expander module ARF-WL8-EXP.

Internally illuminated exit signs (direction LEFT, direction RIGHT, EXIT and other signs).

FEATURES:

- Dynamic routing for all expanders and field devices
- Bi-directional wireless communication
- · Capable of linking up to 240 fully intelligent wireless field devices
- Supports full device intelligence
- Contains a built-in rechargeable Li-ion battery
- Operating temperature range: -30 °C to +55 °C

ARG-WL8-H Wireless heat detector





ARG-WL8-OH

Wireless combined sensor detector





The wireless optical smoke detector samples the air in the protected area to provide the earliest warning of fire and yet offers a high level of false alarm rejection.

FEATURES:

- Adjustable sensitivity low, normal or high
- · Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- Self-optimizing wireless frequency and amplitude algorithms
- · Patented design of smoke inlet to optical chamber
- Operating temperature range: -30 °C to +55 °C

The wireless heat detector continuously samples the temperature in the protected area to provide the earliest warning of fire. The device is capable of being configured on site either in fixed temperature or rate of rise modes.

FEATURES:

- · Rate of rise or fixed temperature mode
- Bi–directional wireless communication
- · Fully intelligent
- 10-year battery life
- Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

The wireless multi criteria detector combines both smoke detection and heat detection technologies.

FEATURES:

- · Combined heat and smoke sensing
- Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

ARG-WL8-B ARG-WL8-B1

Wireless optical beam detectors



ARG-WL8-FL Wireless flame detector



ARG-WL8-CP Wireless manual call point





The wireless reflected type optical beam detector samples the air in the protected area. When smoke level between the unit and the reflector reaches the threshold the alarm is activated.

FEATURES:

- Built-in laser pointer for visual control during the tuning process
- Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- Operation range from 5 to 80 meters
- Operation range from 5 to 100 meters (ARG-WL8-B1)
- Operating temperature range: -30 °C to +55 °C

The wireless flame detector monitors the protected area and provides early detection of an open fire.

FEATURES:

- Bi-directional wireless communication
- Fully intelligent
- Operation range 25 meters
- Two built-in IR sensors
- 7-year battery life
- IP65 rating
- Operating temperature range: -30 °C to +55 °C

The wireless manual call point has a resettable plastic element, which displays a drop down warning flag when operated. A key is supplied with the MCP for reset and case opening.

FEATURES:

- Resettable element
- · Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55°C



Wireless optical smoke detector with built-in sounder





Wireless heat detector





with built-in sounder

ARG-WL8-HS



The wireless optical smoke detector with built-in sounder samples the air in the protected area to provide the earliest warning of fire and yet offers a high level of false alarm rejection. Build-in sounder provides notification in case of fire.

FEATURES:

- Adjustable sensitivity low, normal or high
- Bi–directional wireless communication
- Fully intelligent
- Sound synchronization with other sounders
- 10-year battery life
- Self-optimizing wireless frequency and amplitude algorithms
- · Patented design of smoke inlet to optical chamber
- Operating temperature range: -30 °C to +55 °C

The wireless heat detector with built-in sounder continuously samples the temperature in the protected area to provide the earliest warning of fire. The device is capable of being configured on site either in fixed temperature or rate of rise. Built-in sounder provides notification in case of fire.

FEATURES:

- Rate of rise or fixed temperature mode
- · Bi-directional wireless communication
- Fully intelligent
- Sound synchronization with other sounders
- 10-year battery life
- Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

ARG-WL8-OV

Wireless optical smoke detector with built-in voice alarm speaker



The wireless optical smoke detector with built-in voice alarm speaker samples the air in the protected area to provide the earliest warning of fire and yet offers a high level of false alarm rejection. The detectors provide white noise and strobe lights to indicate safe exit route.

FEATURES:

- Wireless evacuation system
- · Adjustable sensitivity low, normal or high
- Bi-directional wireless communication
- Fully intelligent
- · Voice synchronization with other alarm speaker 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- · Patented design of a smoke inlet to optical chamber
- Operating temperature range: -30 °C to +55 °C



EXIT White noise and strobe lights Wireless directional evacuation via sound and strobe lights (similar to aircraft emergency floor path illumination) indicate safe exit route 18 17 8 16 15 14 13 12 11 10

Smoke detection in the protected area

Integrated fire detectors & voice alarm speakers analyze the smoke level in the air and transmit this information to the control device



In case of fire voice alarm speakers / detectors ARG-WL8-OV activate a synchronised voice message «attention there is a fire in the building follow the sound and light indications»

«White noise» & strobe lights path

ARG-WL8-OV devices alternately flash the high intensity LED's and generate white noise to clearly indicate a directional path to the safest evacuation route

Wireless channel is fire resistant



Control of evacuation

The system allows a change to the direction of sound wave and strobe lights path to alternate emergency exit routes if necessary

ARG-WL8-SND



The wireless sounder is fully addressable and benefit from an extensive range of intelligent control, test and monitoring functionality.

FEATURES:

- · Sound synchronization with other sounders
- Bi-directional wireless communication
- · Fully intelligent
- Sound pressure level 98 dB
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

ARG-WL8-PNBD

Wireless personal notification bracelet



ARG-WL8-V

Wireless voice alarm speaker



The wireless voice alarm speaker is fully addressable and benefits from an extensive range of intelligent control, test and monitoring functionality.

FEATURES:

- Voice synchronization with other alarm devices
- · Bi-directional wireless communication
- · Fully intelligent
- Voice pressure level 92 dB
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

ARG-WL8-OUT Wireless single output module







ARG-WL8-IN Wireless single input module

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ARG-WL8-N Wireless exit sign



The wireless exit sign is internally illuminated escape signs (direction LEFT, direction RIGHT, EXIT and other signs) activated in emergency situations

FEATURES:

- Dynamic routing for all expanders and field devices
- · Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- Operating temperature range: -30 °C to +55 °C





The wireless personal notification bracelet work as a personal notificator as well as alarm button in case of emergency

FEATURES:

- Indoor and outdoor positioning
- Staff performance monitoring
- Occupational safety
- Bi-directional wireless communication
- Fully intelligent
- LED display
- Contains a built-in rechargeable Li-ion battery
- Operating temperature range: −10 °C to +55 °C



The wireless output module has been designed to allow control of a variety of equipment including access control doors, ventilation plant and fire extinguishing systems.

FEATURES:

- · Activation synchronization with other modules
- Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

The wireless input module is used for monitoring one input circuit and sending information to the control panel

FEATURES:

- · Programmable input for fire and security detectors, emergency button or specialized detectors
- Bi-directional wireless communication
- Fully intelligent
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

ARFA-PRO

Wireless acoustic glass break detector



IKAR-PRO Wireless passive infrared detector



ARG-WL8-IN

Wireless input module and magnetic detector



The wireless acoustic glassbreak detector detects if a pane of glass (window, door, glass case etc.) is shattered or broken, and sends information to the control panel.

FEATURES:

- Detects breakage of any type of glass
- Bi-directional wireless communication
- 10-vear batterv life
- Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -20 °C to +55 °C

The wireless passive infrared detector detects motion in the protected area and sends information to the control panel

FEATURES:

- Detects motion up to 12 meters away
- Immune to pets under 20 kg.
- Bi–directional wireless communication
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

The wireless input module and magnetic detector detects a forced entry into protected premises through doors and windows and/or monitors one input circuit and sends information to the control panel

FEATURES:

- Programmable input for fire and security detectors, emergency button or specialized detectors
- Bi-directional wireless communication
- 10-year battery life
- Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C



Wireless inertial sensor



VODA-PRO

BRELOK-PRO

Wireless key fob

Wireless water leak detector















The wireless inertial sensor used for detecting movement of objects and sending information to the control panel

FEATURES:

- Programmable sensitivity
- Compact size 78x26x41 mm
- Built-in reed switch
- · Can be used as a panic button
- · Bi-directional wireless communication
- Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -10 °C to +55 °C

The wireless water leak detector is used for monitoring water leakage and sending information to the control panel

FEATURES:

- · Open and short-circuit wire monitoring
- Programmable «response period»
- Bi-directional wireless communication
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

The wireless temperature detector is used for temperature monitoring and sending information to the control panel

FEATURES:

- Selectable upper lower and temperature threshold from -40 to +100 °C
- Bi-directional wireless communication
- 10-year battery life
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -30 °C to +55 °C

The wireless key fob is used to quickly arm and disarm the panel and perform other functions such as panic etc.

4 buttons, 12 combinations of clicks

- Bi–directional wireless communication
- · Self-optimizing wireless frequency and amplitude algorithms
- Operating temperature range: -10 °C to +55 °C

30 new COVID-19 hospitals are protected **by Streletz-PRO**

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In 2020 in the fight against COVID-19 the Russian Government ordered the fast track construction of new hospitals to be built all over the country. It is mandatory for these buildings to be equipped with reliable and proven fire detection systems.

Argus Spectrum International has been chosen to provide more than 30 newly constructed hospitals with the Streletz-PRO advanced wireless fire detection system.

60 000 wireless devices were installed and commissioned in the **30** new medical centers!



All the hospitals were built in record time while the first 17 of them were constructed within 60 days



STRELET2:

17 hospitals **200 000** m² - total area **2 500** - beds for patients

Why Streletz-PRO?

The advanced wireless technology is economical and installed approximately 5 times faster than a traditional wired system. This is made possible due to the self-configuring mesh network of Streletz-PRO providing comprehensive building protection comprising wireless: fire detection, notification, evacuation, automatic signaling to fire brigades, full system monitoring.

Wired system

- 1. Extensive period of installation
- 2. Expensive cabling installed by a team
- of qualified electricians
- 3. Frequent site visits for monitoring installation progress
- 4. Close integration with other services construction, mechanical





	30 April	15 May
	O	— O ——
d	Hospitals in Podolsk, Smolensk, Volgograd, Novosibirsk, Ussuriysk, Orenburg were completed	Hospitals in Pushkin, Omsk, Petropavlovsk–Kamchatskiy, Habarovsk, Kaliningrad, Rostov–on–Don, Sevastopol Ulan–Ude were completed



- 1. Rapid installation speed approximately 5 times faster!
- 2. Minimal disturbance to the building
- 3. No requirement for expensive fire-
- resistant cabling
- 4. Remote configuration and monitoring





Project size: summary square – 140,000 m² 20.000 detectors

Market sector: medical, educational and scientific institution

System type: hybrid wireless and wired

Project description

The multidisciplinary clinic of the Medical Academy represents a modern complex and consists of 7 buildings forming a single whole. The object includes clinical and diagnostic blocks, radionuclide Diagnostic block, educational and scientific blocks. The clinic required a fire detection and security alarm system.

Reasons for wireless use

The specificity of the hospital complex implies difficult access to individual rooms (surgery, resuscitation, etc.) and the need to maintain clean rooms.

Due to wireless technology the system was installed in a short time. Some parts of the system were preprogrammed and configured before they were installed in place for final testing and commissioning. In addition, the wireless system allowed to use wearable bracelets in the system for patients. The bracelets provide personal notification in case of fire alarms and perform the functions of a panic button. Wearable devices also automatically transmit alert to nurse's post in case of person's loss of consciousness.

Schools and kindergartens in Moscow



Project size:

- 150 schools and kindergartens in Moscow

- 40,000 wireless devices

Market sector: educational institution

System type: wireless

Project description

Educational institutions operating in the city of Moscow

Reasons for wireless use

The fire alarm systems of a large number of facilities had to be modernized in a short period of time without affecting the teaching process.

In 2019, a project was implemented in schools and kindergartens in Moscow to upgrade fire protection systems without decommissioning facilities. In 6 months, 150 children's educational institutions were equipped with new fire protection and remote monitoring systems.

Vnukovo air traffic control center in Moscow



Project size: building area – 30,000 m²

Market sector: transport

System type: hybrid wireless and wired

Project description

The construction of new Vnukovo air traffic control center in Moscow started in 2009 and its handover for commissioning was in 2014. It is a three-storeyed building. The center is the largest air traffic control center in Europe. It controls the flights from 14 civil and 21 military aerodromes.

Reasons for wireless use

The challenge was to provide a flexible system that can be installed in a short time across the building, preventing disturbance to the occupants. Only wireless technology provides quick, easy and cost-effective installation (wireless communication between all the devices of the system). Wireless technology is now widely accepted as being as reliable and robust as traditional wired alternatives, yet offering much more in terms of flexibility, making Streletz-PRO an ideal choice.

Since the new system was planned beforehand, installation and handover went smoothly within the planned timescale. Finally, there were installed more than 1,000 wireless smoke and heat detectors, 50 wireless translators, 50 wireless output modules and 60 wireless manual call points.

Russian research station «Vostok», the Antarctic

Project size: 100 + devices

Market sector: science

System type: wireless

Project description

Vostok Station is a Russian research station in the Antarctic. The station lies at the southern Pole of Cold. The station consists of several buildings including a power station, a meteorology building and living quarters. The station typically contains 25 scientists and engineers.

Reasons for wireless use

Vostok is the coldest place on Earth. In addition to the extremely cold temperatures, other factors make Vostok one of the most difficult places on Earth for human habitation:

- An almost complete lack of moisture in the air.
- A windspeed rising up to 27 metres per second.
- The lack of oxygen
- A higher ionization of the air.

Due to long acclimatization and very short time of installation a wireless system was the obvious solution. At the same time the system should also be very reliable because Vostok station is one of the most isolated established research stations.

Wireless fire system Streletz–PRO is very reliable and an ideal variant for facilities with a number of buildings spread over the site where cables cannot be accommodated.

Manufacturing Plant



Project size:

- 21,500 m² - 1,000 wireless devices

Market sector: Industrial facility

System type: Wireless

Project description

The project was carried out in 2019 and included the design and installation of fire alarm, notification and evacuation control systems, as well as automatic fire ventilation and fire suppression control systems. The installation was performed by a team of 4 engineers within 10 days at Basfiber basalt fiber plant.

Reasons for wireless use

The primary reasons for choosing the Streletz-PRO wireless system were the system's reliability and the ease and speed of installation process. Thanks to its mesh network, Streletz-PRO offers a higher level of dependability compared to wired systems. Besides, the choice was clearly made in favor of wireless in terms of economic efficiency and guick implementation. Mounting devices in tall production workshops is already a complex undertaking. Yet, laying cable communication lines poses an even bigger challenge. In some places, it's simply unfeasible due to limited access to lifting equipment.

Another valuable aspect of the Streletz-PRO is its remote monitoring capability via Streletz-Cloud. The cloud service simplifies connecting to systems and overseeing their technical status.

Residential complex «Academic» in Yekaterinburg



Project size:

- 100 apartment buildings

- 18.000 wireless devices

Market sector: Apartment buildings

System type: Wireless

Project description

«Academic» is the newest and brightest district of the city of Yekaterinburg with a total area of 1.3 thousand hectares. The district is designed for 325 thousand people, and it is planned to build 9 million square meters of residential real estate by 2026. More than 100 residential buildings of the Academic District are protected by Argus Spectrum wireless technology.

Reasons for wireless use

Streletz-PRO is a superb choice for apartment buildings and residential complexes. It offers all the essential features and a diverse range of options to adhere to regulations. This system is adaptable for installation at any construction phase. Concerns about residents inadvertently damaging fire alarm wiring during apartment renovations are nonexistent. The well-known advantages of simple installation and maintenance take on added importance, especially given the scale of these systems, which demand extensive wiring stretching over dozens of kilometers.

Virtual Classroom



Argus Spectrum is very pleased to present its new The virtual classroom allows fire alarm engineers and unique service for the fire detection world! Web from all around the world to use one of the remote Camera + IP connected kit of actual devices - a equipment kits to introduce themselves to the leading edge virtual classroom for the programming Streletz-PRO wireless alarm system. The user can of Streletz-PRO wireless fire detection system! control and monitor the equipment kit in the Streletz-Master software, while simultaneously observing The online practical training is simple and easy to each device through a live camera feed. The service use! You will need a desktop or laptop computer and is completely online, which means that you don't need internet access. The online practical training is the physical access to a real system in order to learn how perfect way to learn Streletz-PRO. You can study to use it.

from home or from any place in the world at any time!



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VIRTUAL CLASSROOM



200 000 INSTALLATIONS - 9 MILLION WIRELESS DEVICES SOLD!



Tretyakov Art Gallery, Moscow



Arkhangelskoye Estate Museum, Moscow region

PROJECTS IN RUSSIA:



Peter the Great Hospital, St.Petersburg



Kursky Railway Station, Moscow



Hermitage, St.Petersburg



Clinical Hospital of S. S. Yudin, Moscow



Mikhailovsky Theatre, St.Petersburg





Vnukovo Airport, Moscow



«Four Seasons» Hotel, St.Petersburg



Residential complex «Lyuberetskiy», Moscow



Residential complex «Academic», Yekaterinburg



Schools and kindergartens, Moscow





Moscow Clinical Center for Infectious Diseases «Voronovskoye»



Sports schools, Moscow

