



ARGUSSPECTRUM

DEVELOPMENT AND PRODUCTION
OF WIRELESS FIRE AND SECURITY SYSTEMS

www.argus-spectr.ru



ABOUT COMPANY

ARGUS SPECTRUM is one of the world's leading manufacturers specializing in the development and production of innovative wireless fire detection and security systems.

ARGUS SPECTRUM is founded in 1993 by the scientists in experimental physics area of the Radio Physics and Electronics faculty of Peter the Great St. Petersburg Polytechnic University, leading university for engineering and technology in Russia.



ARGUS SPECTRUM IN NUMBERS



33 years

of successful history



12,000,000

wireless devices sold worldwide



200,000

devices manufactured per month



200,000

installations around the world



OUR MISSION –

Production of electronics for saving lives

900

Russian cities have our fire technologies for emergency monitoring, rescuing and mass notification.

14

– time decrease in the number of casualties on medical and educational facilities in the first 3 years of the emergency monitoring system operating

190,000

people have been saved over the past 10 years



PRODUCTION

- 8,000 sq.m facility
- 4 x surface mount assembly lines
- 200 employees



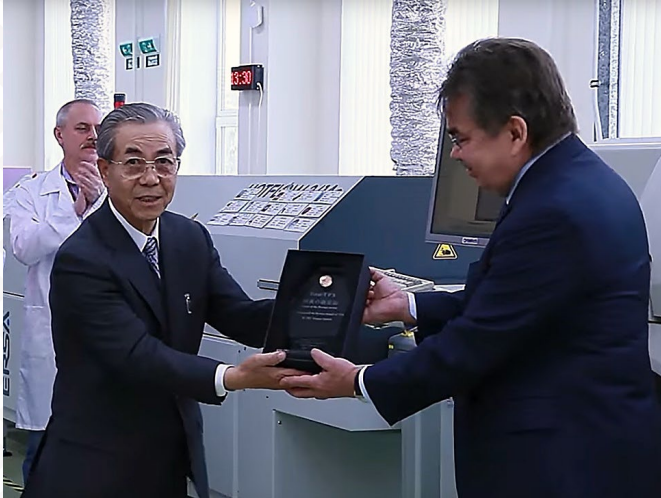
PRODUCTION MANAGEMENT SYSTEM

in accordance with Toyota Total-TPS

ARGUS SPECTRUM is the only company in Saint Petersburg to be recognized by and awarded the Toyota Bronze Medal for its production Management System.

ARGUS SPECTRUM started reorganization of its production management system in accordance with Lean manufacturing principles in 2011. Employees of the company were educated by the specialists of the Toyota Engineering Corporation training center both at the factory in St. Petersburg and at Toyota Motor plant in Japan.

As a result, the company managed to increase productivity by 5 times, reduce time and wastage at each stage of the production cycle and improve product quality.

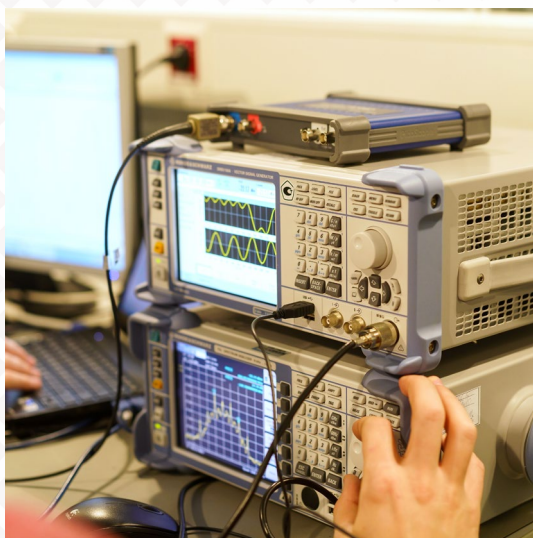




TESTING LABORATORY

Our laboratory is fully equipped with all the necessary facilities for fire detection testing:

- certified smoke and heat test tunnel,
- acoustic anechoic chamber,
- light camera,
- radio channel,
- mechanical test rigs.



R&D DEPARTMENT

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 clients annually.

PRODUCTS

The key product of the company is a **WIRELESS** fire and security system Streletz-PRO.



Fire detection



Notification



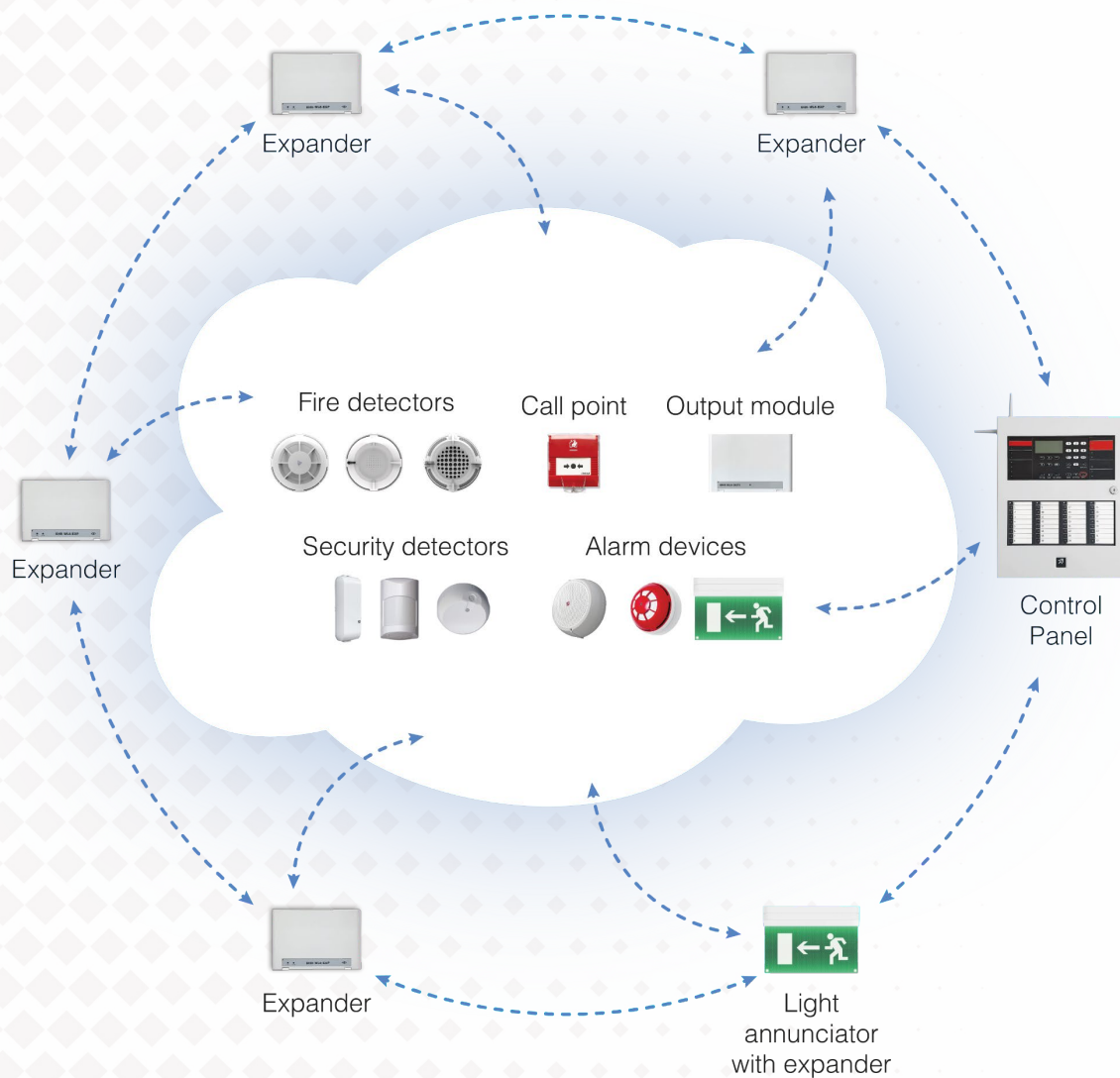
Fire suppression control



Smoke ventilation control



Security alarm



STRELETZ-PRO MAIN FEATURES

Self-healing MESH technology

- 127 communication routes
- High level of reliability
- All devices automatically choose a parent expander depending on the quality of connection
- A simple design and commissioning process



2,000

wireless devices
per system



10-year

battery life



3 sec

alarm activation
delay



1200 m

communication
range

STRELETZ-PRO MAIN FEATURES

Advanced technical specifications

The advanced wireless technology is economical and installed approximately 5 times faster than a traditional wired system.

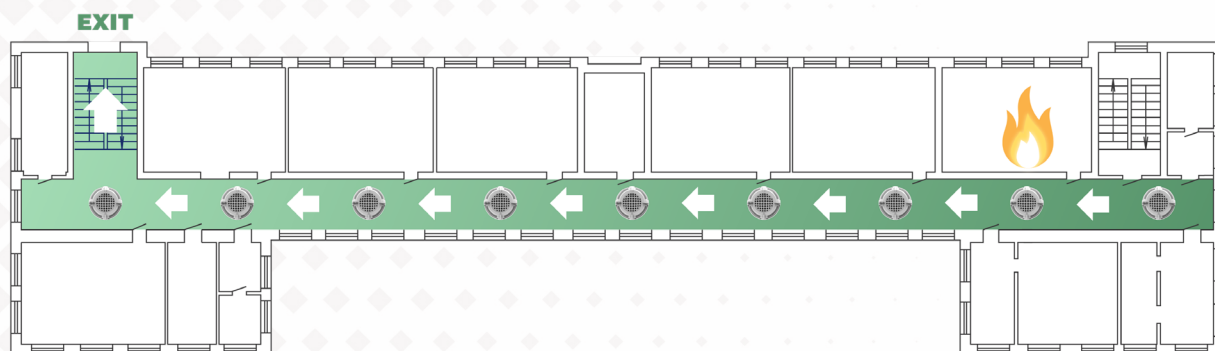
Streletz-PRO is a comprehensive building protection comprising wireless: fire detection, notification, evacuation, automatic signaling to fire brigades, full system monitoring.



STRELETZ-PRO MAIN FEATURES

Wireless directional evacuation:

- Smoke detection in the protected area
- Voice alarm about fire
- White noise and strobe lights indicate safe exit route
- Control of evacuation



Wireless directional evacuation via sound
and strobe lights (similar to aircraft
emergency floor path illumination)



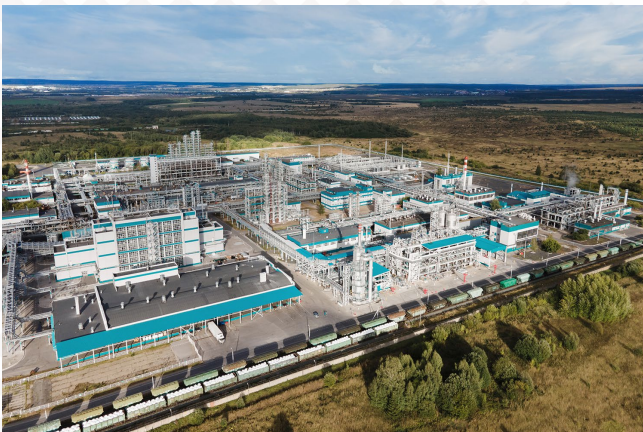
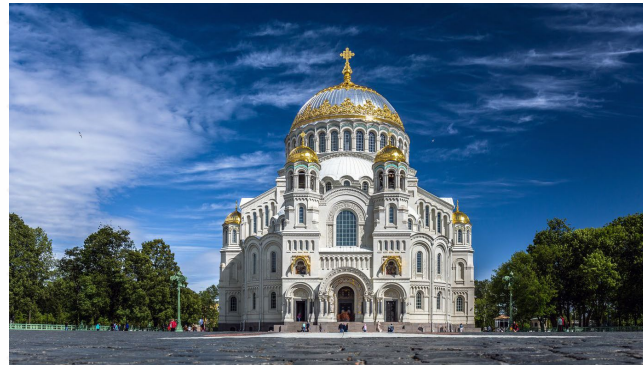
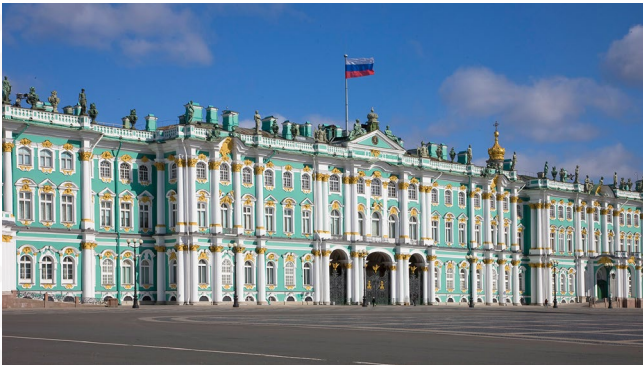
Cloud technologies for remote control and monitoring
via a mobile phone, a computer or a web-browser

STRELETZ-PRO MAIN FEATURES

Streletz-Cloud:

Remote control and monitoring of the state of each device.

- Configuration
- Connection strength
- Battery power
- Temperature
- Fault summary
- Network rating



CASE STUDIES

- Hermitage, **St. Petersburg**
- Tretyakov Art Gallery, **Moscow**
- "Vostok" station in Antarctica
- Moscow Clinical Center for Infectious Diseases "Voronovskoye", **Moscow**
- Flight control center of Vnukovo airport
- Cathedral of Christ the Savior, **Moscow**
- Gostiny Dvor, **St. Petersburg**
- Four Seasons Hotel, **St. Petersburg**
- Airport, **Rostov-on-Don**
- Uralmashzavod, **Yekaterinburg**
- Naval Cathedral, **Kronstadt**
- Shopping center "Riverdale", **Moscow**
- Mikhailovsky Theatre, **St. Petersburg**



CASE STUDIES

150 educational institutions in Moscow



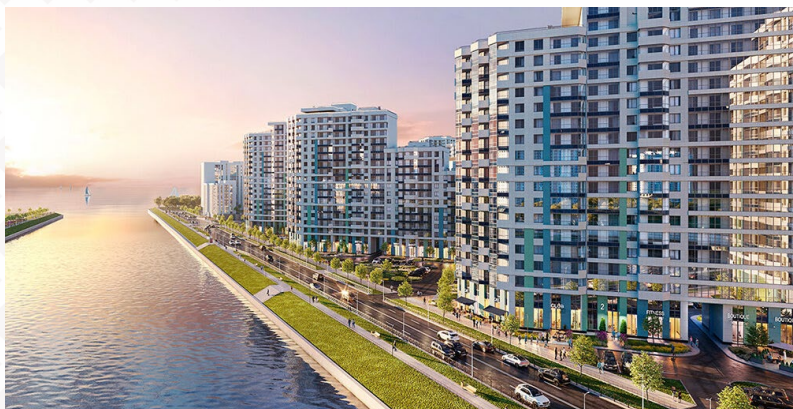
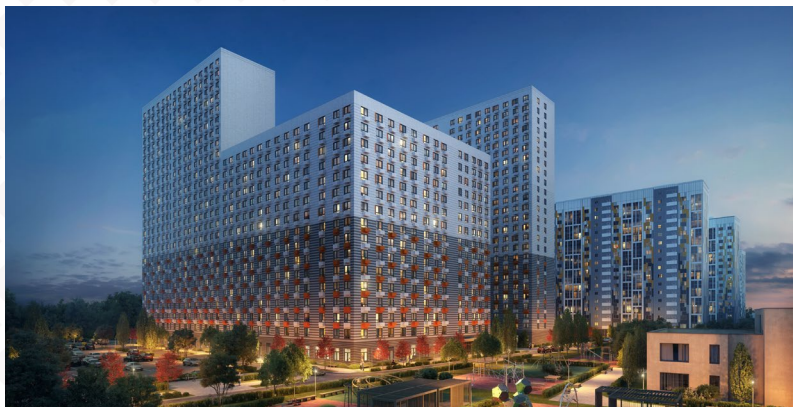
More than 40,000 Streletz-PRO wireless devices



Installation time of all the 150 projects
– 6 months



40 installers



RESIDENTIAL BUILDINGS

- «Academic» RC, **Yekaterinburg**
- Ogni Zaliva RC, **St. Petersburg**
- BEREK Kurortny RC, **St. Petersburg**
- Lyuberetsky RC, **Moscow**
- UNO Starokoptevsky RC, **Moscow**
- URBN RC, **Volgograd**
- Ryabinovy Kvartal RC, **Yekaterinburg**
- Radamira RC, **Samara**
- Kutuzovsky RC, **Berdsk**
- Muromsky RC (Perm), Tikhomirov RC, **Yekaterinburg**
- Arkhitekton RC, **Yekaterinburg**
- Innopolis University Dormitories, **Kazan**, etc.



More than 20,000
Streletz-PRO
wireless devices



The average installation
time for 1 project
– 4 months

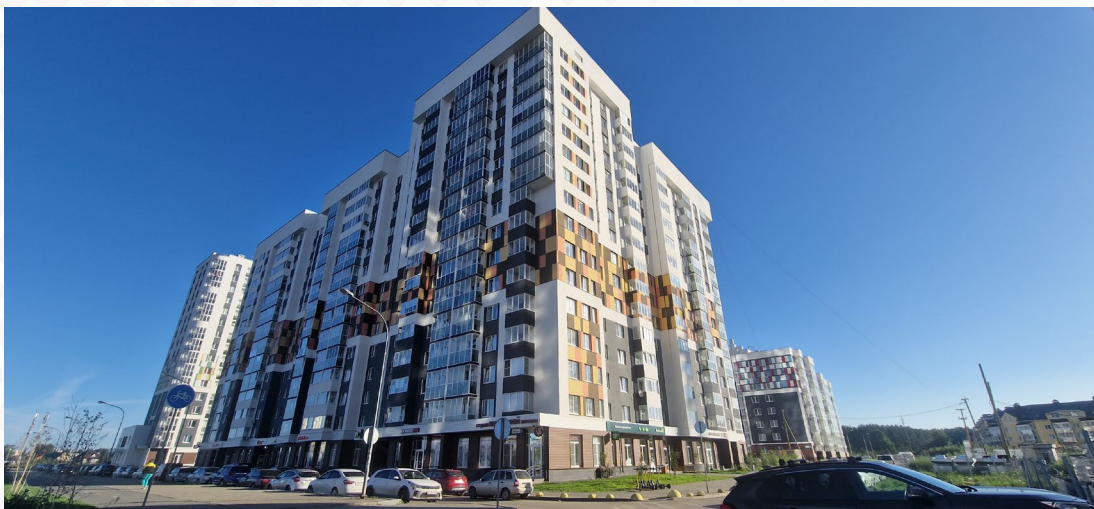


From 9
to 25 floors



STRELETZ-PRO IN THE AKADEMICHESKY DISTRICT

Akademicheskyy is the newest, most vibrant, and youngest district in Yekaterinburg, covering a total area of 1.3 thousand hectares. Plans are in place to build 9 million sq. m of residential real estate by 2026. More than 160 high-rise residential buildings are protected by Strelets-PRO.



More than 100,000
radio devices of
“Streletz-PRO”



325,000
residents of
the district



9 million m² of
residential real
estate area

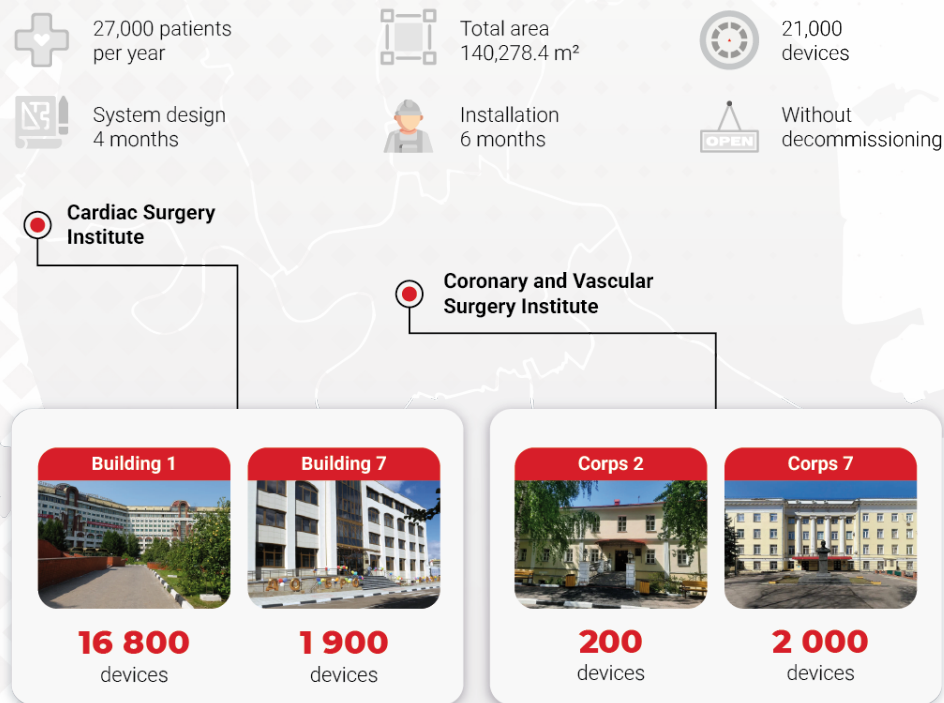


HEALTH CARE FACILITIES

- Moscow Clinical Center for Infectious Diseases
“Voronovskoye”, **Moscow**
- Multidisciplinary Clinic of the Military Medical Academy,
Saint Petersburg
- Peter the Great Clinic, **Saint Petersburg**
- S.S. Yudin City Clinical Hospital, **Moscow**
- Z.P. Solovyov Research and Practical Psychoneurological
Center, **Moscow**
- G.A. Zakharin Tuberculosis Clinical Hospital No. 3, **Moscow**
- Infectious Diseases Building of the publicly funded medical
institution “Kursk Regional Hospital”

«STRELTZ-PRO» AT THE BAKULEV CARDIOLOGY CENTER

27,000 patients protected: Replacement
of Honeywell fire automation systems
at Europe's largest cardiac surgery center.





SHOPPING CENTERS

- Big Gostiny Dvor, Saint Petersburg
- Sennaya Shopping and Entertainment Center, Saint Petersburg
- Svetlanovsky Shopping Center, Saint Petersburg
- Miller Shopping Center, Saint Petersburg
- Riverdale Shopping Center, Moscow
- Lenta, O'Kay, Perekrestok, Karusel, Auchan, Spar, Semya, Magnit, Pyaterochka, and Dixie retail chains across Russia



INDUSTRIAL FACILITIES

- Uralmashzavod, 3 million sq. m, **Yekaterinburg**
- Sibur-Khimprom, **Perm**
- Basfiber Basalt Fiber Plant, **Tver Oblast**
- Biaxplen-Sibur, **Kursk**
- Krasnokamsk Repair and Mechanical Plant
- Norilsk Nickel Repair
- Transneft-Privolga
- Yuzhno-Priobskoye Oil Field
- Total Cycle Plastic Recycling Plant, **Tver**
- Sterlitamak CHP Plant, **Sterlitamak**



CASE STUDIES

Wildberries Warehouse

Why choose Streletz-PRO:

- It is difficult to route cables due to a metal floor and unreliable bolted connections.
- The system needs to be installed quickly and without taking the facility out of operation.
- The layout may change, so the solution must be flexible.
- There is a high risk of mechanical damage to wired lines.



30 wireless systems
15.000 devices



22 thousand m²
mezzanine area





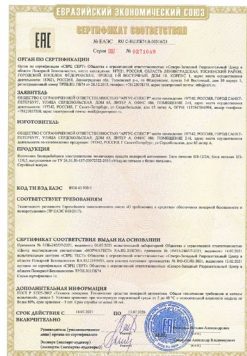
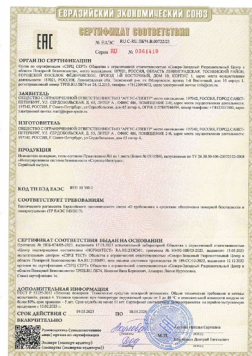
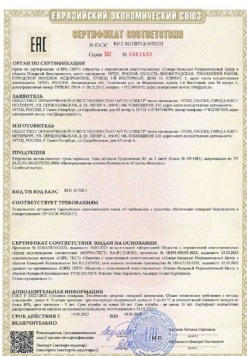
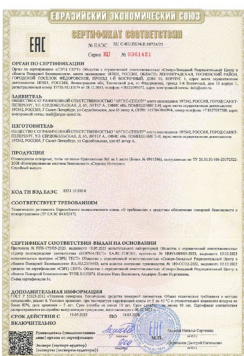
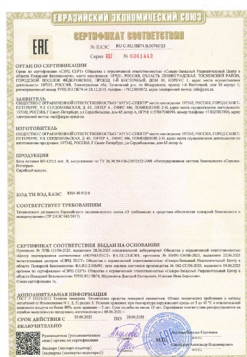
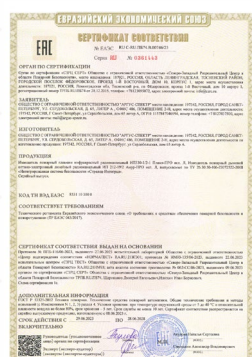
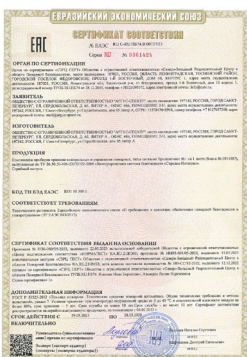
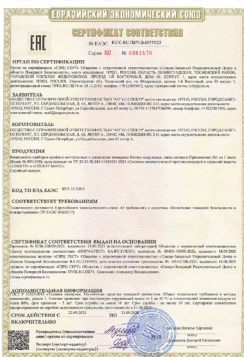
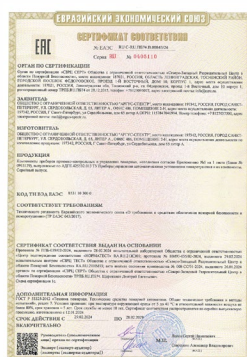
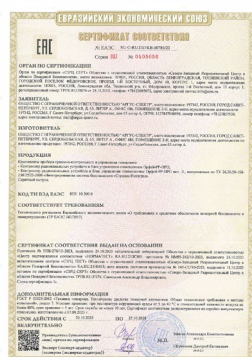
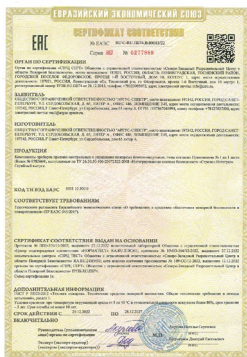
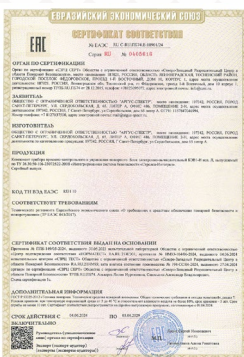
HOTELS

- Arbat House Hotel, **Moscow**
- Palmira Palace Resort & SPA Hotel, **Yalta**
- Solnechnaya Dolina Ski Resort, **Miass**
- Uvildy Sanatorium, **Chelyabinsk Oblast**
- Yeliseyevy Polya Recreation Base, **Bryansk Oblast**
- Emerald Hotel, Tolyatti
- Kameya Hotel, **Kamensk-Uralsky**
- Marco Polo Hotel, **St. Petersburg**
- Ramada Hotel Complex, **Yekaterinburg**
- Zvenigorod Park Hotel, **Zvenigorod**
- Krasnye Kamni Sanatorium, **Kislovodsk**
- Primorye Grand Resort Hotel, **Gelendzhik**
- Peski Country Club, **Yekaterinburg**

Approvals

The Streletz-PRO wireless fire alarm system successfully passed tests and complies with the fire regulations of 83 countries

 Argentina	 Armenia	 Australia	 Austria
 Azerbaijan	 Bahrain	 Belarus	 Brasil
 Bulgaria	 Cyprus	 Czech Republic	 Denmark
 Egypt	 Fiji	 Finland	 Georgia
 Gibraltar	 Greece	 Hungary	 India
 Indonesia	 Iran	 Iraq	 Ireland
 Italy	 Jordan	 Kazakhstan	 Kenya
 Kiribati	 Kuwait	 Kyrgyzstan	 Libya
 Lithuania	 Malaysia	 Malta	 Marshall Islands
 Micronesia	 Moldova	 Mongolia	 Nauru
 Netherlands	 New Zealand	 Nigeria	 Norway
 Oman	 Palau	 Papua New Guinea	 Philippines
 Poland	 Portugal	 Qatar	 Russia
 Samoa	 Saudi Arabia	 Singapore	 Slovakia
 Slovenia	 Solomon Islands	 South Africa	 Spain
 Sri Lanka	 Sweden	 Switzerland	 Syria
 Tajikistan	 Thailand	 Tonga	 Turkey
 Turkmenistan	 Tuvalu	 UAE	 United Kingdom
 Uzbekistan	 Vanuatu	 Vietnam	 Yemen



APPROVALS

Wireless fire system Streletz-PRO fully complies with The Eurasian Economic Union regulations - TR EAEU 043/2017



TRAINING AND SUPPORT

To increase client confidence and reduce the need for return site visits, full training and support is available from the team of experts at ARGUS-SPECTRUM throughout all stages of the project, ensuring optimal results and the successful delivery of the Streletz-PRO system.

ARGUS-SPECTRUM is very pleased to present its new and unique service for the fire detection world! Web Camera + IP connected kit of actual devices – a leading-edge virtual classroom for the programming of “Streletz-PRO” wireless fire detection system! The online practical training is the perfect way to learn Streletz-PRO. You can study from home or from any place in the world at any time!





ARGUSSPECTRUM

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