

PERIMETER INTRUSION DETECTION SYSTEM

Triboniq™



Triboniq



INNOVATIVE PERIMETER INTRUSION DETECTION TECHNOLOGY

BASED ON TRIBOELECTRIC CABLE FROM THE ELECTRICAL MARKET LEADER

Triboniq™ perimeter intrusion detection system is designed to protect the perimeter of industrial, infrastructure and domestic facilities from third parties intrusion.

Triboniq™ SYSTEM BENEFITS



Low costs per 1 running meter



Virtual engineer



Easy integration with other security systems



Very low false alarm rate



Possibility of concealed installation



Low maintenance costs

INSTALLATION ON ANY TYPE OF FACILITY



FENCES

of any type, including welded mesh, chain-wire mesh and barbed wire



UNDERGROUND

triboelectric cable underground installation to prevent digging under



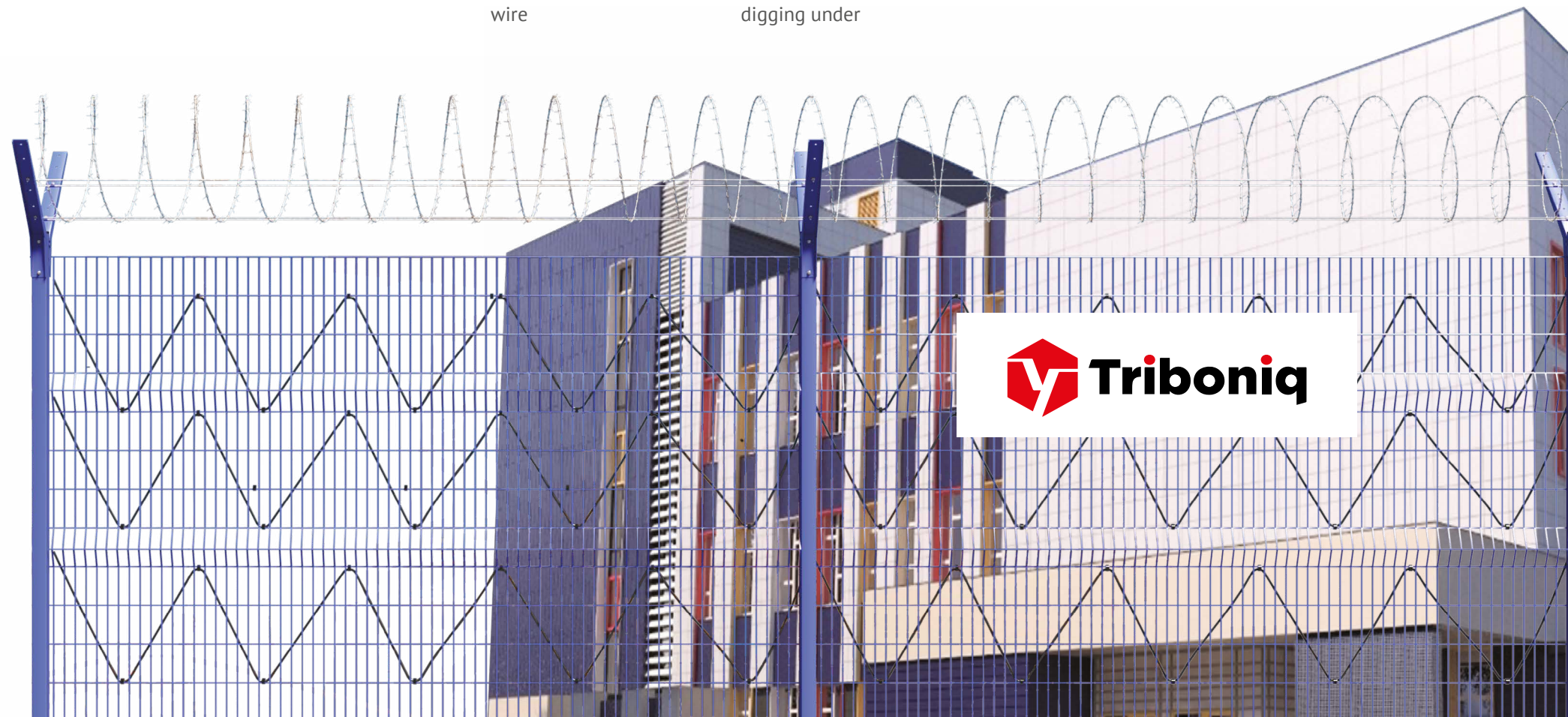
ABOVE/UNDERWATER

protection of perimeters having a water boundary



PIPELINES

ensuring the safety of liquids and gases transportation



Triboniq™ SYSTEM TYPES

Depending on the customer requirements, we can configure different solutions based on two main types:

BASIC SYSTEM

PROFESSIONAL SYSTEM

IDEAL SOLUTION FOR SMALL SECURITY ZONES

This modification is the best option for creating of non-extended (every 100–600 meters) detection zones at the facility.

It involves the construction of a system based on TIO-01 Triboniq™ Series smart controllers. One controller is designed to connect one sensor line up to 600 m* long.

MAXIMUM BENEFITS FOR EXTENDED FACILITIES

It ideally solves the problem of protecting extended objects with a perimeter length of over 3 km. It is based on TIO-02 Triboniq™ controller, which allows connection of two sensor lines up to 1.5 km* long each.

The controller is available in two modifications that differ in the type of connection to integrated security systems:

- connection using relay contacts (relay output);
- computer-based version that allows remote connection, configuration and monitoring via RS-485.

*with linear laying of the sensor line

SYSTEM COMPONENTS

The system is equipped with a triboelectric cable as a sensor line, which is installed along the perimeter of the security zone. Any mechanical impact on the cable is registered by the controller, the quality of signal processing of which determines the effectiveness of the entire security system. Our solution minimizes the false alarm rate. This allows eliminating the human factor and significantly reduces the security system operating costs.



SENSOR LINE

SMART CONTROLLER

SCOPE OF APPLICATION

PERIMETER SECURITY OF FACILITIES:



OIL REFINERIES

Security of oil refinery territories, pipelines, gas distribution stations, production complexes



INFRASTRUCTURE FACILITIES

Perimeter security of overnight facilities, office buildings, health care facilities, museums



INDUSTRIAL SITES

Perimeter security of factories, warehouse complexes, test sites, quarries



CRITICAL INFRASTRUCTURE

TribonIQ™ integration into security systems of banks, penitentiary facilities, defense industry facilities, border security



POWER STATIONS

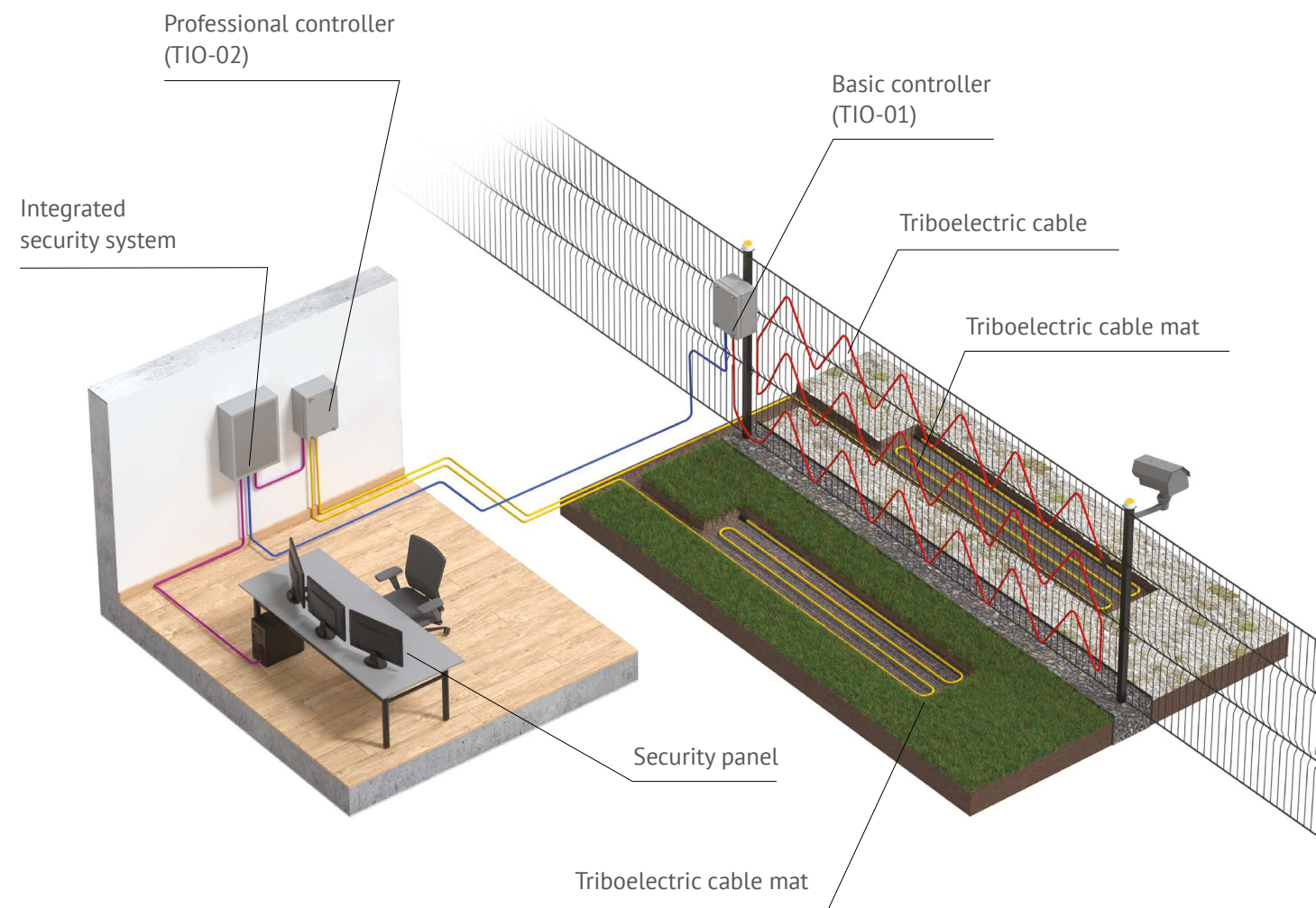
Security of power transmission towers, electric power plants, transformer substations, utility poles, buildings adapted for electric communication networks installation, solar power plants



RESIDENTIAL HOUSES

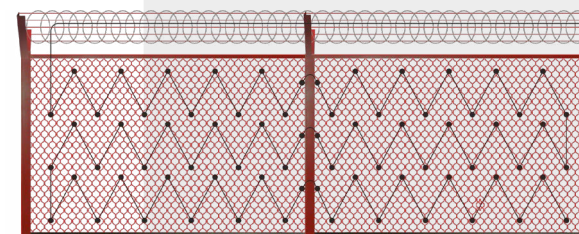
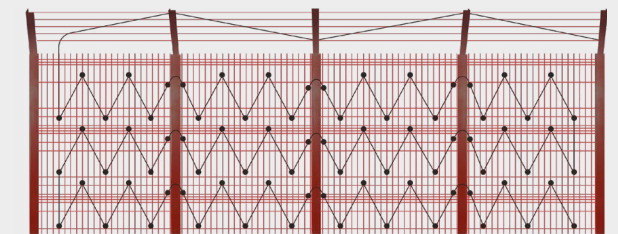
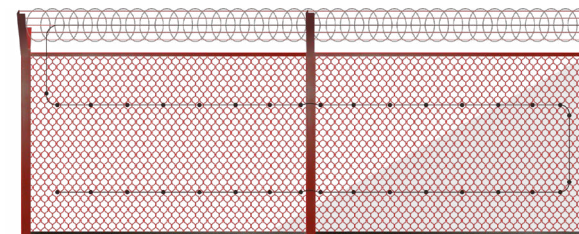
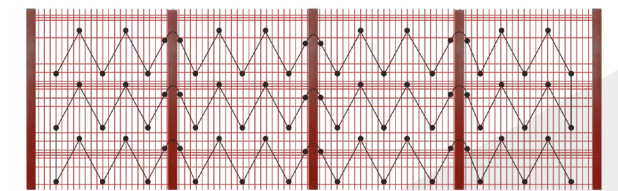
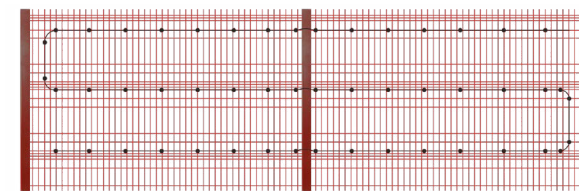
Installation of the system on the fences of cottage communities, suburban residential complexes, holiday centers and hotels, agricultural complexes, greenhouses

Triboniq™ SYSTEM LAYOUT



TYPICAL SOLUTIONS

EXAMPLES OF SENSOR LINE
INSTALLATION ON FENCES



MINIMIZING FALSE ALARM RATES

Most solutions available in the market give a large number of false alarms, require the constant presence of a full-time engineer for maintenance and manual adjustment of the controller sensitivity in case of environmental conditions changing.

SMART SENSITIVITY

Triboniq™ controller microprocessor recognizes tens of thousands of different scenarios (rain, wind, snow, train, etc.) and automatically, without the involvement of personnel, adjusts the sensitivity, minimizing the false alarm rate.





OUR SERVICES



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SYSTEM SELECTION ACCORDING TO THE CUSTOMER'S CONDITIONS

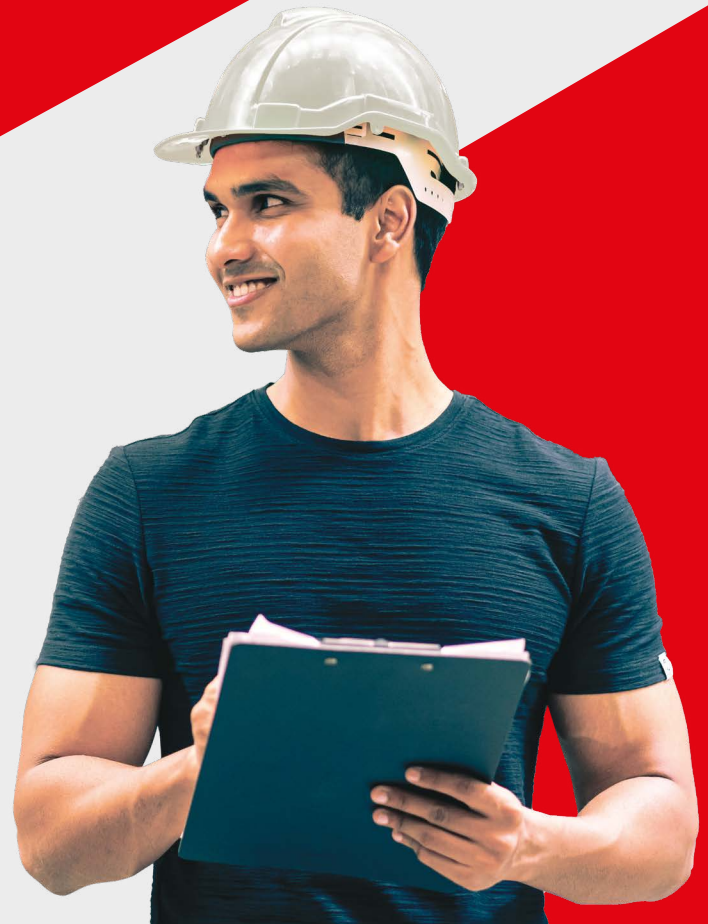
Our technical experts will visit your site and select the best security solution for your needs.

INSTALLATION

We will be happy to offer a qualified installation service for quick and efficient installation of the Triboniq™ perimeter intrusion detection system.

INTEGRATION

Triboniq™ perimeter intrusion detection system can be easily integrated into any existing security system, forming a single multi-line complex.



Demonstration of Triboniq™ system operation

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