SYSTEM “KRAPIVA”

TECHNICAL DESCRIPTION

PURPOSE

- Physical protection of important and potentially dangerous industrial, administrative and other stationary objects.
- Protection of temporarily built objects, including military objects.
- Protection of mobile objects.

Operation of non-lethal protective electroshock device "KRAPIVA" is based on the technology of high-voltage modulated electric impulses and its effective and safe influence on an offender.

Combined with other engineering and technical security means, "KRAPIVA" forms an independent engineering-technical complex that prevents unauthorised trespassing and physical influence on the object.

Operation of "KRAPIVA" is based on the safe influence on an object with electrical pulses up to 45 kV. The object get stunned after approaching a high-voltage electrode at a distance of about 10-15 mm. The object receives a very tangible and unpleasant, but safe electric impusle.

Electric impulses easily penetrate thick clothes (gloves, leather jackets, etc.).

System “KRAPIVA” has one jack for plugging in conductive elements. It is easy to install the system on the high-voltage fence. Any conductive elements can be connected to the system sequentiallly or parallel, with the total length of 200 m. The electrodes act as proximity sensors. The system transmits a signal on a remote security station, when the electrodes are approched (at the distance up to 15 mm) and simultaneously stuns the offender. The influence is both safe and effective.
If the high-voltage circuit is broken or if there is no high voltage in the circuit, the according signals are sent to the station as well.

TECHNICAL CHARACTERISTICS

- Dimensions, not more than, mm	260 x 170 x 80
- Weight of the system, kg	1,5 ± 0,1
- Power supply, V	220V 50 Hz/ 12 V
- Voltage of the discharged, generated by the system, kV	from 20 to 45
- Power of influence for 1 kOhm,	from 1 to 2
- Operational in the range of temperatures from -15 °C to +50 °C and relative humidity up to 98% at the temperature +25 °C	

ELEMENTS OF THE SYSTEM

Electroshock system for perimeter protection “KRAPIVA” includes:

1. Electrified fence

Electrified barrier is an engineering barrier with function of non-lethal electroshock influence, which includes:
- Engineering barriers of any type (mesh, concrete, brick), including the existing barrier of the object.
- A set of specialized isolators allowing compact installation of electrified elements.
- A system of permanent stretched electrified wire.
- Electrified elements in the form of rows of cold-rolled galvanized wire.

2. System "KRAPIVA".

Installed in a case. Electrified electrode and working electrode are connected to the metal sections of the fence. The wires are connected to the case. The working electrode can be earthed by earthing the metal sections of the fence. The use of an earthed working electrode and the metal sections of the fencve will allow to simplify the connection of the barriers of big length.

3. Case for the system.

The case is made from sheet steel and has dimensions of 600x1000x250 mm.

Model of the system “KRAPIVA” installed in the testing ground