

SPECIFICATION AND USER'S MANUAL

Type of the device: 1-channel NRP-102 stationary sender
It is designed to cooperate with the receivers: OPC, IDO 04/99, IDO 500 and the VIRGO 430 monitoring station.

TECHNICAL PARAMETERS

- type: stationary
- class: C
- frequency: 433,92 MHz
- transmission: coded (the KeeLoq hopping code by Microchip Technology)
- sending power: 10 mW
- range: 1km*
- voltage supply:
nominal: 12 V DC
maximal: 10-15 V DC
- power consumption:
static: 2,5 mA
maximal: 110 mA
- capacity:
sabotage output (SAB): 50mA /12V DC
- number of channels: 1
- way of releasing: connecting to supply
- number of transmissions (repetitions): 1 or 6
- temperature operating range: -20 to +40 °C
- security level: IP 67
- antenna socket: BNC 50 Ohm
- dimensions (mm): 76(110)*61*33



* The above range concerns the open space (without any obstacles, when the receiver and the remote control can "see each other"). If there are any obstacles between the receiver and the sender, one must assume that the range would be reduced: for wood and plaster it would be 5-20% lower, for bricks 20-40% lower, and for reinforced concrete 40-80% lower. If there are many obstacles we advise to use retransmitters. If there are metal obstacles, using the radio systems is not recommended.

**The device meets the requirements of the directives EMC 89/ 336/ EEC
and RTTE 1999/ 5/ EC.**



Use - the sender transmits by radio way an alarm signal from a patrolled site to a receiver.

Operating - the NRP 102 sender starts transmitting immediately after being connected to supply. The number of repetitions depends on how the "number of transmissions" switch is set. When the switch is set on the position "1", the sender sends one pack of signals. When it is sent on the position "6", the sender sends next 6 packs of signals for about 3 minutes with 30-second intervals. After finishing the transmission, the sender turns on the standby mode. In order to start another cycle of sending, turn it off and then connect to supply once more (reset the sender).

The sender has a constant-voltage regulator which does not allow for diversification of the sending signal's power depending on the voltage supply between 10 and 15 V DC (and, simultaneously, the achieved range). The set is also protected from the voltage reversal.

You can use the TEST button (the supply has to be connected) while testing or entering a sender into the receiver's memory. Pressing the TEST signal emits the signal immediately. The lighting D1diode signals the transmission.

The contacts of the SAB button lead to the terminal strip. You can connect them to the local alarm central input. This way you will be able to get information about intervention inside the sender. Opening the case unshorts the contacts on the terminal strip (when the case is closed, the SAB contacts are shorted).

The installation conditions - good. The hermetic case allows for installing the sender even in difficult conditions as humidity of low temperatures. In addition, the antenna socket allows for taking the antenna beyond obstacles.

