

## «THUNDER»

### Wireless Public Alert System

«THUNDER» Wireless Public Alert System is intended to create local emergency warning system operating via wireless link and supporting message delivery confirmation.

#### The system consists of:

- **Station set.** Controls linear sets.
- **Linear set.** Intended for voice alert, repeats signal.
- **Signal repeater set.** Repeats signal when linear sets are far from each other.

“Thunder” provides voice announcement by using both prerecorded arbitrary voice alert messages. Local sets translate received text into voice and launch alerts.

The system supports connection of local public address equipment including loudspeakers, hooters, running text LED boards.

Linear sets can be controlled through station set or via local control panel on site.

The system supports several addressing modes: by zone – launches systems located within certain district, zone or group; circular – launches alerts on all linear sets; specific – launches alerts on concrete linear sets. These modes ensure high efficiency and timely mass notification.

Linear set automatically creates launch confirmation signal and its transmission to station set.

Software allows to configure various announcement commands and automatically launch them at certain events. This concept implemented on large-scale creates highly efficient safe city systems.

Software supports different scenarios for different emergencies or events and ensures remarkably effective public safety solutions.

#### Technical features:

Parameter	Value
Number of linear sets within one network	Up to 511
Max signal repeating chain	16
Earshot distance	Up to 700 m
Message communication time to all linear sets	Up to 60 sec
Message length	Up to 300 characters
Wireless link between communication controllers, m	Up to 2700
Frequency range	433 MHz from 200 to 900 MHz by special order

Linear set power supply capacity	Up to 14 days in standby mode Up to 30 min in broadcasting mode
Auto routing via alternative links	Yes
Self-test of linear sets	Yes
Fault detection time	10 mmin max
Notification system launch confirmation	Auto, specific
Operating modes	By zone, circular, specific

**Key technologies:**

- Alternative message delivery routes;
- Long signal repeating chain;
- Alert launch confirmation system;
- Text-to-speech.

