



AZK-7M

The AZK-7M automatic sound ranging system is intended to locate artillery batteries (guns) and mortars from the sound of gunfire and adjust friendly artillery fire from the sound of shell bursts.

The system provides: search, direction finding and position-finding of the acoustic signal sources in a given zone of surveillance; display of the surveillance results on the monitor of the system commander's workstation; transmission of the surveillance information to higher authorities over radio and wired links.

The AZK-7M consists of one central point (CP) and three base points (BP). Its equipment is installed in four Ural-43203 trucks having special K2.4322M van bodies. Three vehicles accommodate equipment of the base points and one vehicle houses the central point.

The main functions of the central point are: to receive telecode messages with the results of the processing of acoustic signals from all the base points of the system over radio and wired links; to determine the rectangular coordinates of targets when conducting reconnaissance and the rectangular coordinates of shell bursts when adjusting artillery fire; to provide information and technical exchange over radio and wired links with two external users.

The main functions of the base point are: to deploy two sound stations (SS) on the terrain, with each SS including three sound locators (SL) and power supply; to survey the SS; to measure the surface meteorological parameters; to receive sound signals and determine the time of their arrival at the center of each SS and bearings of detected objects from the center of each SS; to transmit telecode data messages from each SS to the CP of the system over a radio or wired link.

Main characteristics:

- Localization range under moderate and favorable weather conditions on normal terrain, km:
 - mortars: 5...8
 - artillery guns: 12...16
 - ground bursts of shells fired by 122mm and larger-caliber guns: 12
 - air bursts: 12...16
- Mean target (burst) location error (for three fixes):
 - gun shots, shell (mortar bomb) bursts:
 - in range, % of range: 0,8
 - in azimuth, mil: 3...4
 - mortars:
 - in range, % of range: 1
 - in azimuth, mil: 4...5



- Surveillance frontage, km:
 - three BPs deployed;: 10...12
 - two BPs deployed: 5...6
- Time to locate a target, not more than, s: 15
- Time to deploy the system, h:
 - using radio communications;: 1
 - using wire communications: 2
- Crew (of CP and each BP): 5
- Number of external subscribers: 2
- Range of robust radio communications with external subscribers, up to, km: 20
- Range of robust wired communications between CP and BP, up to, km: 5
- Range of robust radio communications between CP and BP, up to, km:
 - on the move: 1
 - at the halt: 10



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