



**LEVEL-CROSSING SYSTEM DIAGNOSTIC  
VIA GSM CHANNEL  
(SK APS-GSM)**

## LEVEL-CROSSING SYSTEM DIAGNOSTIC VIA GSM CHANNEL (SK APS-GSM)



Level-crossing system diagnostic via GSM channel **SK APS-GSM** – is intended for remote control and transmission of information about operation, serviceability of automatic crossing signaling units (APS), pre-emergency and emergency failures using a wireless communication channel **GSM (GPRS)**.

**SK APS-GSM** consists of following components:

- Object controller
- Base controller
- Man Machine Interface (supervisor's workstation)

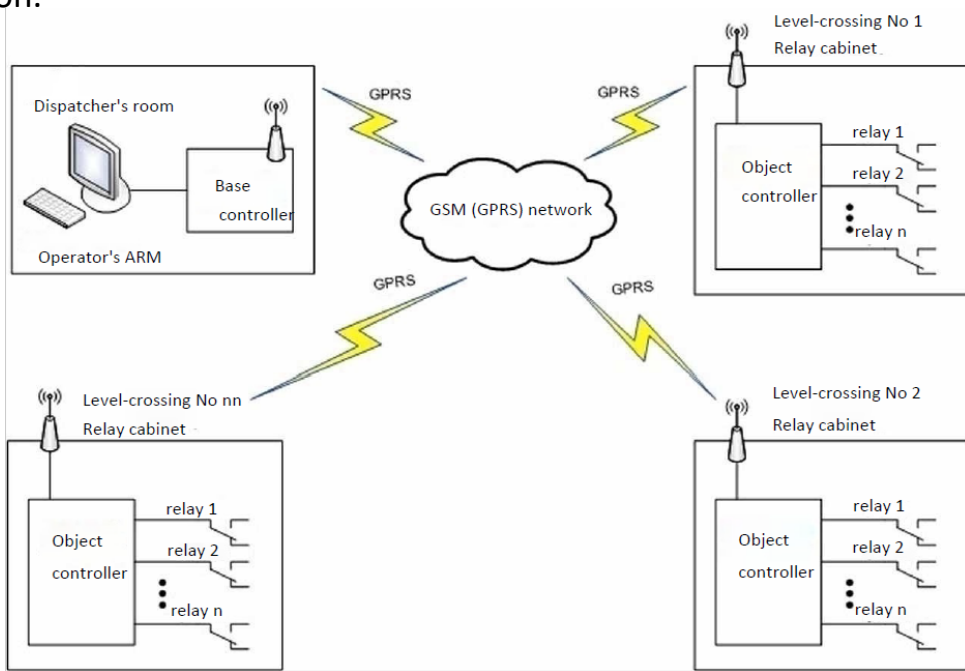
The object controller is designed to collect, process information about the state of the level-crossing signaling and transfer it to the base controller. The communication between the object and base controllers is carried out over a radio channel.



## LEVEL-CROSSING SYSTEM DIAGNOSTIC VIA GSM CHANNEL (SK APS-GSM)

The object controller is placed in a relay cabinet for monitored level-crossing and has an external antenna, which is installed on the outside of the relay cabinet on the roof in any convenient place.

The base controller is designed to receive information from the object controller, process and generate control indications for the operator's workstation.



**SK APS-GSM System architecture**

The base controller with a built-in radio communication antenna is located in the dispatcher's room and looks like a closed, wall-mounted unit powered by an uninterruptible power supply.

The Man Machine Interface is designed to provide the dispatcher with information on the status of monitored level-crossings.



## LEVEL-CROSSING SYSTEM DIAGNOSTIC VIA GSM CHANNEL (SK APS-GSM)

### Advantages of the solution:

- Low equipment cost
- High reliability of information transmission
- Compact and lightweight
- Easy in operation
- Minimum installation time - fast commissioning
- Increased stability versus interference
- Operation in any weather conditions (snow, rain, etc.)
- Independent of the distance between control objects

