



MICROPROCESSOR LEVEL-CROSSING SYSTEM APS-M

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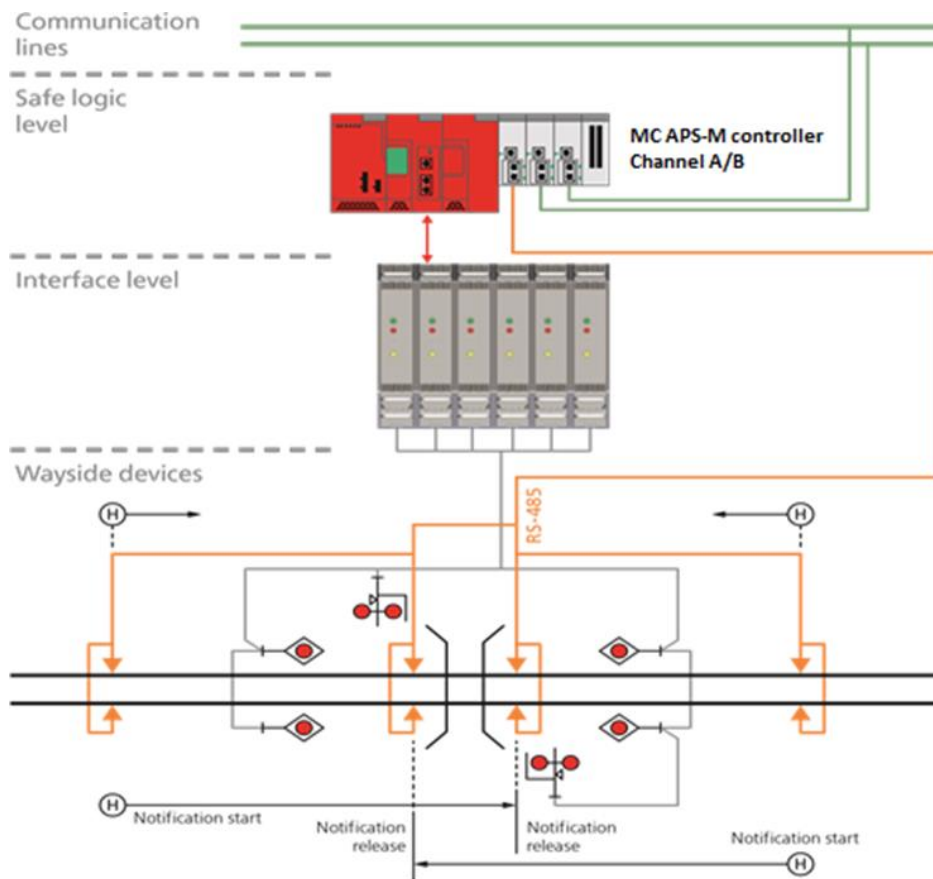


APS-M microprocessor-based automatic level crossing signaling system is a complex of technical and software tools for monitoring and control of railway level crossing signaling devices.

Main advantages:

- ✓ Based on serially produced programmable logic controllers
- ✓ Modular design & Flexible architecture
- ✓ Software based on IEC 61131 standard
- ✓ Safe digital interface protocols
- ✓ External communication (RS485 and/or Ethernet)
- ✓ Advanced diagnostics
- ✓ Low operation and maintenance costs
- ✓ Higher range and quality of data transmission due to the use of RS-485 interface, optical interface
- ✓ System stability when switching power supply feeders
- ✓ Off-line operation from uninterruptible power supply source for 8 hours

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MICROPROCESSOR LEVEL-CROSSING SYSTEM APS-M ARCHITECTURE

APS-M is based on the **MC APS-M** controller, built on off-the-shelf products (COTS), which ensures high economic efficiency of the system.

The functional safety of the **MC APS-M** controller is provided by processing of information in two independent channels with diversified software.

APS-M power supply system is equipped with overvoltage protection and ensures uninterrupted operation for at least 8 hours in autonomous mode.

Interface between **APS-M** system and interlocking implemented with relay-based or digital interface.

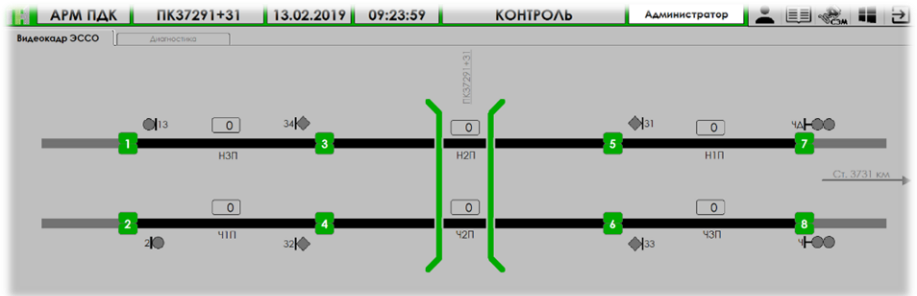
Information exchange between **APS-M** system and CTC/TMS is possible via fiber-optic or copper cable line.

The automated workstation **AWP APS-M** allows you to control the parameters of all system components and carry out predictive system diagnostics.

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Basic configuration of APS-M system:

- ❑ Axle counting points– 16
- ❑ LX signals– 4
- ❑ LX barriers– 4
- ❑ Traffic signals– 4
- ❑ Road blocker system interface- 1
- ❑ LX zone detection system– 1
- ❑ Automatic pedestrian crossing signaling system interface -2
- ❑ CTC/TMS system interface – 1
- ❑ Interlocking interface– 1



Products manufactured by the company comply with the following standards:

- ❑ IEC 62236-4 (GOST 33436.4-1; DSTU 4151-2003)
- ❑ IEC 61000-6-4 (GOST 30804.6.4; DSTU IEC 61000-6-4)
- ❑ EN50125-3 –T2; GOST 34012 –K3
- ❑ DSTU 4178 (Safety level- 4)
- ❑ SOU 45.020-00034045-002 –K3; EN50125-3 –C.4
- ❑ GOST 34012 –MC2; SOU 45.020-00034045-002 –MC2



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