



MR-22 – MICROPROCESSOR CONTROLLER

- Suitable for application on pedestrian crossings and small junctions
- Optimised traffic control
- High reliability
- Easy operation
- Variability
- Universal communication interface OCIT

General Description

Microprocessor controller MR-22 is a traffic controller of the light signaling system (SSZ) designed to control the road traffic on pedestrian crossings and small junctions including active preference of IZS and MHD (Urban Mass Transportation).

MR-22 is a controller whose construction design and variability fully respects demands and specific of road traffic and is based on long term experience of the Company with this type of technology.

Thanks to its simple construction the MR-22 controller is affordable with minimal energy requirements.

Basic Technical Description

The controller consists of the control module and the switching board allowing optimal control of a specific pedestrian crossing or a small junction. Components are installed in the plastic cabinet providing maximum protection against external impacts.

The controller can be upgraded by additional accessories which can be connected to the universal communication interface of the controller.

Thanks to the modern component base the exact safety requirements and high operational reliability are met.

Control software includes two parts:

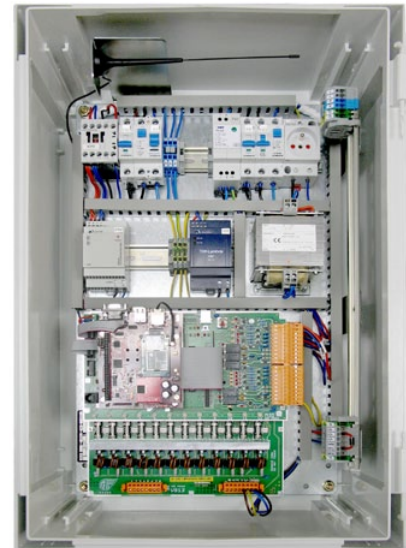
- Source program of the controller
- Module with traffic-technical data

For storage of traffic data the SD industrial memory card is used. This memory can store complete data from the traffic controller operation and detectors, and traffic statistics data.

The communication compatibility is ensured by the universal interface OCIT (Open Communication Interface for Road Traffic Control Systems).

Controller Software allows operating in all current regimes, such as:

- fixed signal plans
- prompting by pedestrian crossing
- preference of MHD (Urban Mass Transportation)
- dynamic programs
- manual switch into continuously flashing yellow
- program flashing yellow
- consistent and also dynamic coordination
- co-operation with Integrated Rescue System



- co-operation with superior traffic control centre

For service intervention (programming and fault diagnostics) the controller is equipped by USB interface, RS 232 and Ethernet. Controller meets the requirement for versatile compatibility with commonly used equipment.

The controller can be upgraded by GSM module for remote management and by GPS module for obtaining precise time information.

The MR-22 controller can operate in a co-ordinated group of controllers of any technology.



Basic Technical Parameters

Working environment	outdoor with normal shocks
Work in the temperature range of external environment between	-40 °C and +60 °C
Power supply	from public distribution network 230 V, 50 Hz
Cover rating	IP 54
Max. number of signal groups	4
Max. number of phases in each signal plan	16
Max. number of power switches	12
Max. number of vehicle detectors	4
Max. number of pedestrian pushbuttons	usually 2, or 4, max. 9
Manual control	manual control switching to flashing yellow
Max. number of programs (signal plans)	60
Signal supervisions all installed	all installed
Support of LED signals	230 V, 42 V

