VIS TYPE VARIABLE INFORMATION SIGNBOARD (flip-flop elements), VIS LCD, VIS LED

Variable Information Signboard

Basic Information

The variable information signboard (hereinafter just VIS) is designed for displaying traffic information with the aim of preventing dangerous situations from occurring and allowing drivers make decisions comfortably and on time.
Information provided should be aimed at traffic closures, traffic jams (vehicle queuing), icing and frost, recommendations for using alternate and detour routes, and other information contributing to the smooth flow of traffic.
The operation of such a transportation information system contributes significantly to improving traffic safety and traffic fast-moving in heavily loaded transportation networks in large cities and on approach communications. This signboard is the integral part of higher control levels (intelligent traffic control systems) and the information system in front of tunnels.
Information displayed may be pre-selected and generated automatically as per the traffic situation evaluated, or entered operatively from the control centre as per actual traffic situations.
Other benefits of the VIS consist in the possibility of feedback reporting to the control centre the device condition, and low electricity consumption.

Technical Description

The VIS is made of an aluminium channel and sheet, and finished with grey powder coating. The front panel is planted with imaging elements modules:

- Flip-flop elements, possibility of highlighting with low luminosity LED
- LCD lit-through imaging modules

- LED modules or LED matrices. In front of LED, glass or PMMA directional optical elements may be inserted to increase the directional luminosity.

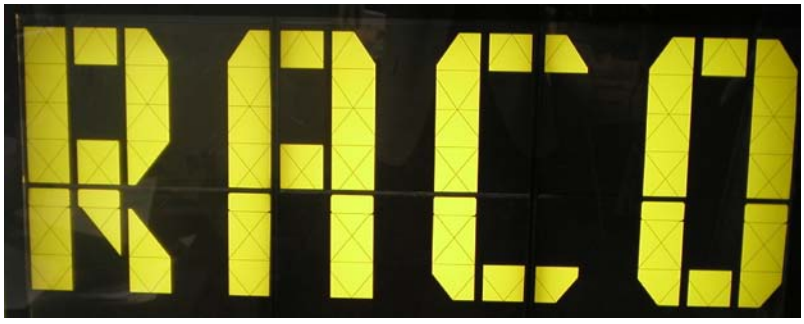
The use of modules is given by the font height (including diacritical characters) – Refer to the table. Imaging elements may be built in the primary model boxes, or, as required by the customer, into boxes of any size corresponding to a multiple of the module size.

The advantage of various technologies of the VIS imaging elements consists in a high variability, e.g. the use on various roads, adjustment to the ambient luminance, fading out, highlighting by flashing, and others. The use of imaging elements is subject to standards in force and technical regulations for using them on the given types of communications, and customer's requirements.

The coverage of the front panel with modules is ensured with a leak-proof tilting frame with a polycarbonate window. The inner space is ventilated. The DCF 77 uniform time receiver, sensors for measuring ambient temperature and illumination for the VIS luminance control, are fixed to the box. An antenna for wireless communication via a communicator in the GSM network is placed on the box for remote control. The VIS is also furnished with manual control located on the pole common with the VIS. The basic program provides information on the ambient air temperature, the date, and time.

The VIS is equipped with a built-in accumulator that allows cancelling the information displayed when a power failure occurs, and sending message about its condition to the control centre.

LCD VIS Example of Characters Displayed on LCD Screen



LED VIS Example of Characters Displayed on LED Screen

Basic Technical Data

Name:	Variable information signboard
Type:	VIS xxx (model-dependent)
Operation:	Continuous
Supply:	230 V / 50 Hz
Protection:	IP65
Operation temperature:	-20°C up to +60°C
Operation input:	Model-dependent
Basic dimensions:	L-2,000, H-1,000, W-210 (mm)
Basic mass:	85 kg

Imaging element:	**Character height:**
Flip-flop elements	225
	300
LED modules	170
	250
	320
	400
LED modules	200
	400

Contact

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