ROAD TELEMATICS

VARIABLE MESSAGE SIGN AND VARIABLE TRAFFIC SIGN (PIT/PDZ)

- **Display of broad information spectrum by LED diodes**
- **Elimination of unwanted reflexes**
- **Wireless data transmission**
- **Maintenance free technology**
- **High reliability**

General Description
Variable message signs are modern electronic systems used for traffic regulation, preventing traffic crisis situations and securing continuous and safe traffic on roads. They provide drivers by information and warning messages about emergency states or weather deterioration at a specific distant section in front of a vehicle in the real time. They alert a driver to impending accident site, congestion or maintenance work related to traffic slowdown. In towns and their environs they are used to display occupancy of car parks, P+R parking or the arrival time at a closest vacant parking site.

Variable message signs might be complemented by variable traffic signs displaying symbols of different types of traffic signs. It is used as a support of a message displayed on the message sign or as a separate sign restricting the maximum speed in the next section.

PIT and PDZ are parts of the traffic line management system. Data received from different monitoring systems allocated along the road are evaluated and transferred in adequate form as information to drivers through PIT and PDZ.

Basic Technical Description
The entire PIT/PDZ system is installed inside the cabinet made off approved materials (stainless steel, plastics). The interior area of the sign is air conditioned. For easy attachment to portals two mechanical cases are used. The panel flat front design does not require the use of the sunshade or other additional mechanical protection. Thanks to its self-cleaning function the maintenance is minimal.

Text messages are displayed by the LED elements (Light Emitting Diode) situated on the variable message sign front panel. LED are very reliable, power drain is extremely low and their lifetime long.

PIT/PDZ is equipped by the control element switching chains of lights for display the required message.

In the case of a power supply failure, PIT/PDZ is equipped by an accumulator, enabling to transmit the message regarding the failure to the control centre. Communication between the control unit and the superior control centre is implemented by wireless transmission.

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Basic Technical Parameters	
Cover	IP 65
Power supply	from public network 230 V, 50 Hz
Working temperature	–20 °C to 60 °C

Variable message sign – Highway D1