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Mounting plate

Mounting Plate for Weigh-In-Motion (WIM) System

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The control cabinet is an integral part of the WIM system, responsible for power supply, control, data processing, and communication between measurement devices and supervisory systems. It enables organized installation of electrical and automation equipment while providing effective protection against environmental factors and unauthorized access.

The solution has been designed for continuous 24/7 operation in outdoor conditions, meeting the requirements of modern ITS systems and Weigh In Motion stations.

The control cabinet is designed to operate as a **core infrastructure element of a WIM station**, providing in particular:

- operation and supervision of WIM system measurement devices,
- integration of various types of load sensors, ANPR and CCTV cameras, inductive loops, meteorological sensors, DSRC antennas, LIDAR, etc.,
- data transmission to central and external systems,
- power supply and protection of key system components,
- monitoring of environmental and power parameters.

Functionality

The control cabinet enables the execution of essential functions required for proper operation of a WIM station, including:

- automation of measurement data processing,
- remote supervision and diagnostics of device operation,
- monitoring of power supply and alarm states,
- surge protection,
- access control and environmental condition monitoring.





Integration with the WIM System

The control cabinet has been designed as a fully compatible solution for WIM systems, enabling integration with:

- WIM Pro software,
- traffic management and ITS systems,
- external monitoring and data analysis platforms,
- telecommunication infrastructure (GSM / LTE / Ethernet).

Thanks to its modular design and flexible configuration, the cabinet can be adapted to the number of traffic lanes, types of installed sensors, and environmental requirements of the installation site.

Design and Safety

The cabinet construction ensures high resistance to environmental conditions and reliable protection of installed equipment. Applied technical solutions allow for:

- stable and safe operation of electronic devices,
- maintaining proper temperature conditions,
- easy service access,
- long system service life.

Key components

Standard Equipment

The control cabinet (basic version) may include, among others:

- WIM system controller (RSU),
- monitoring and supervision unit,
- measurement datalogger,
- input/output (I/O) modules,
- data transmission devices (GSM / LTE / router),
- power supplies and backup power system,
- electrical and network protection devices,
- temperature and access monitoring system.

Key Features

- designed for roadside and traffic infrastructure applications,
- high level of operational safety,
- compliance with ITS and WIM system requirements,
- integration with supervisory and external systems.





<http://apm.pl/pdf/en/mountingplate.pdf>

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