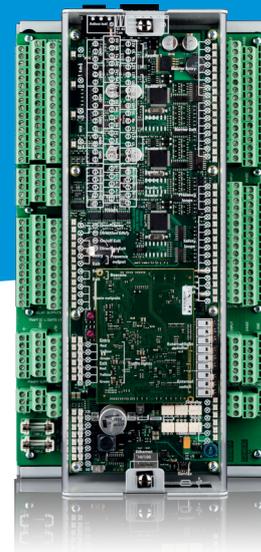# MOOV VMC

advanced vehicle management controller

Key features:
- advanced management of vehicle access gates
- integrated vehicle access control
- integrated barrier and traffic light control
- remote management
- detailed logging

The MOOV VMC provides an advanced solution for the complete management and control of vehicle gates. The controller ensures safe, flexible and easy to manage vehicle access. The controller is able to run standalone; so even when the connection is lost, the vehicle entrance will remain operational. The MOOV VMC is connected via IP to the cloud-based MOOV Software. The software provides a detailed log (juridical logging) of events and the status of the vehicle access control system.

Typical applications include city access control, parking access and advanced vehicle access control.

Barriers and gates
Any type of barrier required for vehicle gates, such as bollards, pyramids, gates, rolling doors and speed gates can be connected to the MOOV VMC.

Identification
The MOOV VMC also connects to identification equipment. Multiple identification solutions can be connected to the MOOV VMC, including transponders, access credentials, ANPR cameras, etc. It includes 4 reader channels

Communication with users
Various equipment to communicate with users at the gate can be connected to the MOOV VMC. A few examples are: traffic lights, intercom, video and displays.

Web based management
The MOOV solution is a remote hosted management application. Locations can be managed easily from any location from web browser devices like PC, smartphone and iPad. If the connection to the server is lost temporarily, the MOOV VMC will remain functional.

Detailed log
An extensive event log registers all vehicle passages and provides information regarding the status of the gate. Combined with camera images, this gives a clear indication of the situation around the gate at any given moment.

Applications modules
City access; MOOV's city access module enables municipalities to restrict vehicle access and tailor the access for permitted vehicles based on preferred route, date and time and environmental specifications of the vehicle.

Pre-book parking; with the pre-book module, the MOOV VMC enables easy management of and access for people that prebook their parking space.

Multi-tenant parking; with the multi-tenant module, MOOV helps business estates to manage parking capacity that is shared by multiple tenants.

Vehicle access control; vehicle access to gated communities, taxi ranks and corporate sites can be managed remotely offering a higher level of service and efficiency.

Technical information	MOOV VMC
Part number	9892966 MOOV VMC
Dimensions	320 x 175 x 75 mm (12.6 x 6.9 x 2.9 inch), including mounting brackets
Weight	2,0 kg (4.4 lbs)
Protection class	IP22
Material	Zinc-coated steel base & polycarbonate cover
Operating temperature	-30... +60°C (-22... +140°F)
Storage temperature	-30... +60°C (-22... +140°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Power supply	24VDC, 35W (not included)
Communication interfaces	TCP/IP, Aebus (isolated, max 1000m), mini USB service port
Inputs	35 digital inputs for detection loops, sensors and barrier position. Dedicated input for run/standby switch
Outputs	12 potential free relay outputs for barrier control
Standards	CE
Document version number	5.1

Access Control	
Identification	Multiple types of identification (i.e. badges, tags, license plate recognition, biometrics, mobile phones and passports)
Reader connections	4 reader channels wiegand (TTL) or RS232/RS485 readers
Wiegand pass through	4 channel isolated wiegand pass through to 3rd party access control panels
Compatible readers	All Nedap TRANSIT, ANPR and uPASS readers
Barrier control	
Supported barriers	Gate Arms, overhead doors, sliding gates, speed gates
Barrier monitoring	Barriers are monitored on status and correct moving speed & direction
Interface	For every barrier there are 2 relays available, 1x open, 1x close. 2 barriers can be connected
Compatible readers	All Nedap TRANSIT, ANPR and uPASS readers
Traffic light control	
Supported traffic lights	Led 24 – 48 V 2x3 (Red / Yellow / Green), included internal traffic light surveillance/ monitoring
Power supply traffic lights	Power supply to traffic lights can be connected directly to intended MOOV VMC Lite connectors
Traffic light configuration	2 x Red/Yellow/Green
Failure monitoring	The MOOV VMC is equipped with traffic light fault monitoring
Management	
Remote management	Through LAN, ADSL/SDSL, proprietary networks or wireless 3G networks
Management application	MOOV Web based management application