

# EM01

Ethernet module



## For barrier control

The Ethernet module can be used to control Magnetic barriers via the ModBus TCP/IP protocol, read out operating states and configure settings. The module is particularly suitable for system integrators. It enables you to develop your own user interfaces or to integrate the barriers into a central parking system. Furthermore, service technicians can obtain a quick overview of the barrier status from any device in the network.

A web server with basic functions is also embedded in the module. It can be used as a simple gatekeeper solution and enables the barrier to be operated from a browser.

The Ethernet module can be used in all Magnetic barriers with the MGC Pro control unit. It is plugged into a free slot and self-installs via plug-and-play.

Technical data	EM01
Current consumption	50 mA
Data transfer rate	10/100 Mbit/s
Maximum line length	30 m
Cable type	Cat 5, twisted pair
Connector type	RJ-45
Default IP address	192.168.1.2
Supported services	HTTP (web server) ICMP (ping) TCP/IP (ModBus) UDP DHCP client NetBios



## Simple integration

The Ethernet module allows you to easily integrate your barriers into higher-level parking systems. The connection via ModBus TCP/IP enables the barriers to be queried and controlled via the Ethernet cabling.



## Comprehensive connectivity

You can control and monitor your Magnetic barriers in numerous ways: in addition to the Ethernet module, modules are available for RS-485, for CAN, mobile communications in the 2G and 4G network as well as for FM radio in the 433 MHz band.

# EM01

## Ethernet module

- > Barrier control and query via the ModBus TCP/IP protocol
- > Barrier status query via UDP
- > Opening and closing of barriers via browser
- > Additional test routines embedded
- > Extension module for the MGC Pro control unit
- > Easy to install with plug-and-play
- > Integrated user administration



The Ethernet module can be used in the following barriers:

Item number	Description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
EM01	Ethernet module			•	•	•	•	•	•	•

### Controllable functions via ModBus TCP/IP

Control barrier (open/close)

Barrier status query

Input and output status query

Induction loops status query

Barrier parameter configuration

### Controllable functions via the web interface

Opening barrier

Closing barrier

Opening barrier permanently (permanently open)

Setting opening speed

Setting closing speed

Input and output status readout

Induction loops status readout

Network settings configuration

User management (admin and user)