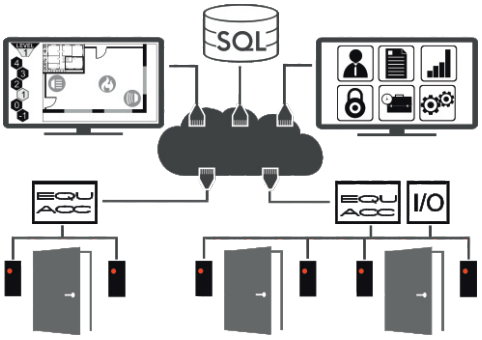


EQU ACC

5 years warranty

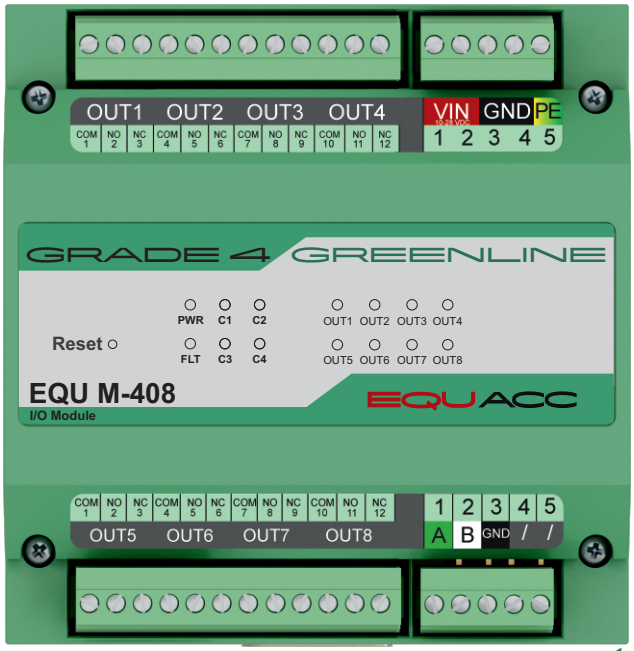
Device:

EQU -M408

Extension module (8 outputs)

Technical data:

Outputs:	8 relay
Capacity	1A 30V
Connection bus:	RS 485
Power supply	10 - 28VDC
Dimensions	123 x 120 x 50 mm
Casing	DIN-35, IP 20
Temperature:	-10°C…+40°C
Humidity:	95% no condensing
Cover material:	ABS UL94 V0
Power consumption:	max. 1,5 W
Surge protection:	600 W



CE RoHS

Device description

EQU-M408 is an extension module with additional outputs for EQU-K400 series access control controllers, which meet the highest fourth protection class according to the European standard EN 60839-11-1: 2013. It has 8 relay outputs with a load capacity of 1A at 24VDC

The module has a housing adapted for mounting on a DIN35 rail in any housing that meets IP4x according to IEC60529 and IK04 according to IEC62262.

Communication with the controller takes place via RS485 via an encrypted communication protocol. The system is protected against unauthorized module replacement and unauthorized connection to the bus.

Communication between the controller and the module is divided into cyclical sessions. The time between sessions is less than 5ms and does not affect the operation of the access control.

Each session of connecting the module with the controller (the session includes 65,000 packets) is divided into stages: establishing a connection with authorization, agreeing encryption keys and device verification takes place with AES256 encryption. After communication is established, transmission is maintained with AES128 encryption with a variable encryption key. After the session ends, another session is opened and the new encryption keys are agreed.

Except inputs/outputs usage the extension module monitor supplied voltage and connections interruption.

Up to 32 modules of any type of the EQU-M400 series can be connected to the RS485 bus supported by the controller.

The module has no configuration switches and is fully configurable by the controller. The module outputs can be controlled as part of standard access control functions (e.g. controlling a bolt, signaling device, arming the alarm system), and controls resulting from the implementation of schedules and scripts in the controller. Each output has COM contacts - input, and NO and NC controlled contacts. Thanks to that, it does not require changing the configuration in case of necessity to change the control polarity.

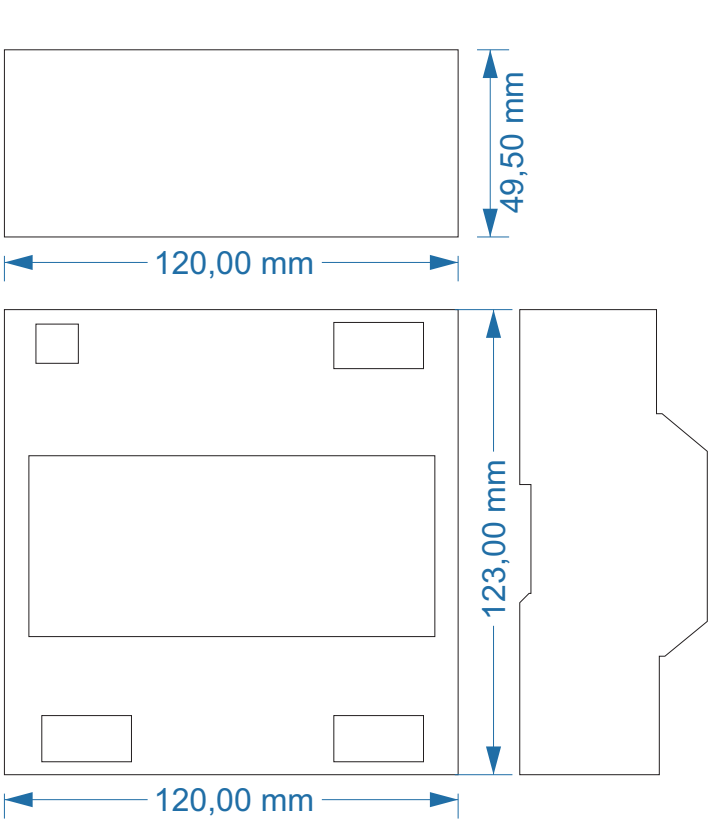
Parametric control inputs make it possible to detect a tamper between the control element and the module. They allow for monitoring standard access control inputs (e.g. door opening sensor, exit button, emergency button control contact, tamper sensor, alarm arming status monitoring), and monitoring resulting from scripts in the controller.

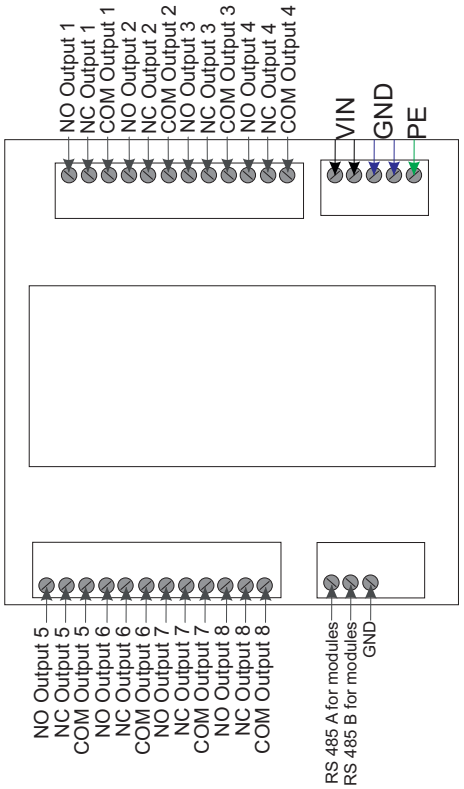
For the time of sending a new configuration to the module, the current configuration is carried out, so that the configuration update does not affect the operation of the access control.

The module is supplied with DC voltage from 10 to 28VDC, thanks to which all electronic devices can be supplied on one power supply, even at long distances (using 24VDC).

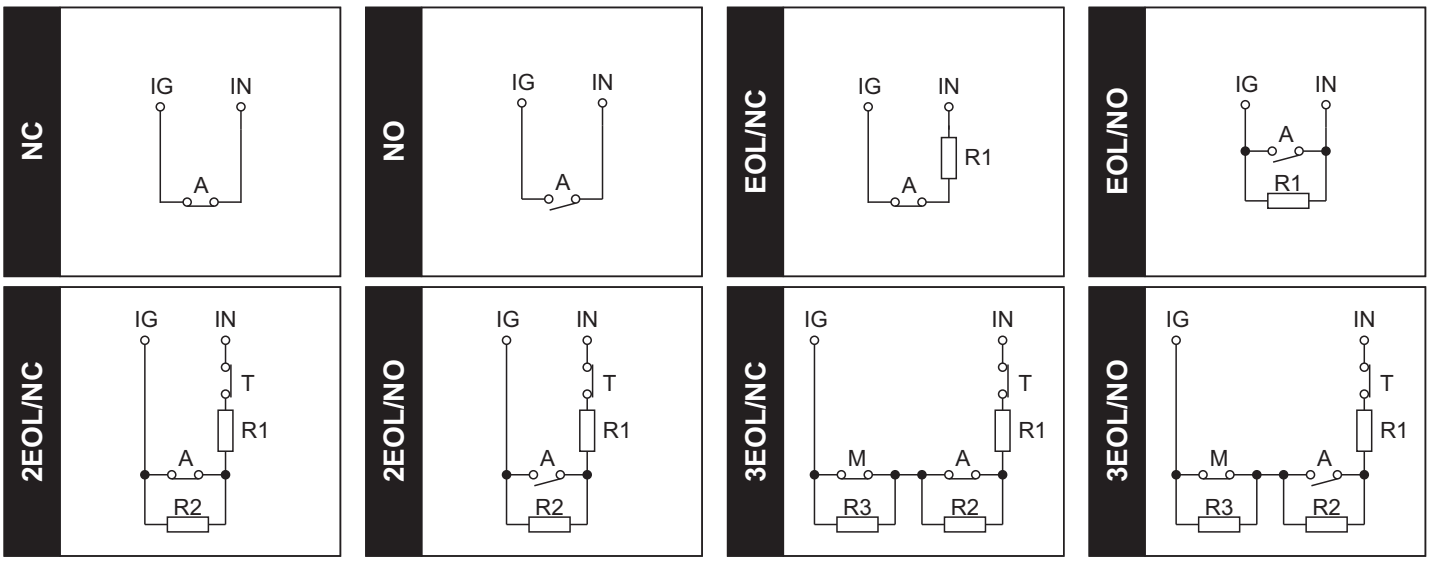
On RS485 buses it has protection up to 600W (10/1000 µs).

Device





Inputs



Outputs

Changeover relays	Type 2
Max. load:	0.5 A / 120 VAC
	1 A / 24 VDC
Lifetime:	3 000 000 operations
Surge protection	600W

The NOC relay output has a common COM terminal. The two-state relay can switch AC and DC voltages. In the de-energized state the NO 1 - COM terminals are disconnected and the NC 1 - COM terminals are connected. The relay is turned on when the program sets logic 1 on the coil. When the relay is turned on, the corresponding LED on the front panel is activated.

The actual appearance of the products may differ from those shown in the photos. The product descriptions on the website are for informational purposes only.