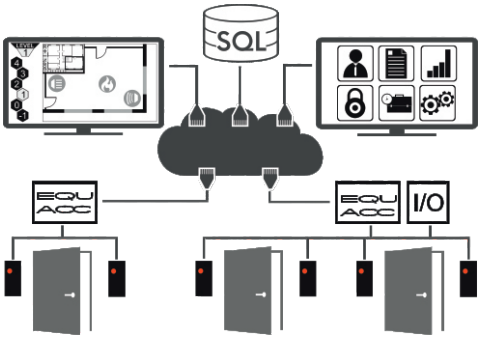
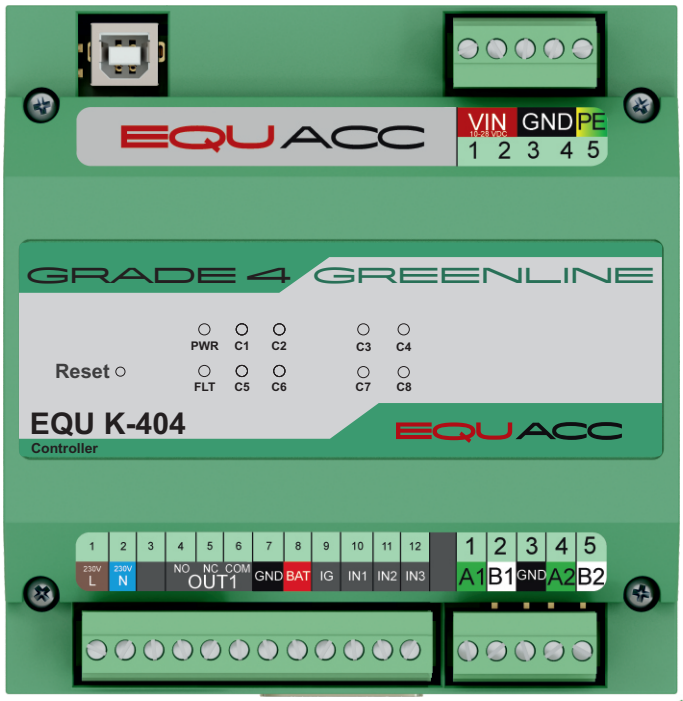


EQU ACC

Device:

EQU - K404

Five passes controller



Technical data:

Passes	9
Users capacity:	1 000 000 users
Events capacity:	500 000 events
Power supply:	10 - 28 VDC, 1W
Connection:	Ethernet (LAN/WAN)
Protocol:	TCP/IP
Transmission:	10/100 Mbps
Readers connection:	RS485 (OSDP2, EQUbus)
Bus length:	max. 1000 m
Casing:	DIN - 35M
Dimensions:	123 × 120 × 50
Work environment:	-10°C…+40°C
Inputs:	230V, battery, tamper, 3 customisable
Output:	1A relay 24V

Device description

EQU-K404 is a modern access control controller that meets the highest, fourth grade standard according to the EN 60839-11-1:2013. It is used to support five passes in a modular housing that is convenient for mounting on a DIN rail. Up to four readers can be defined for each door, the functionality of which (entry / exit) is freely defined.

The controller has 1 relay output with 1A maximum load on 24VDC and 3 inputs (1kΩ - open 2kΩ - close, short circuit or open circuit – sabotage). Additional I/O modules expands functionality with up to 9 passes support.

Communication with the supervisory system and other computers is carried out via the Ethernet network.

The controller has two independent RS485 buses with a length of 1000m when a dedicated RS485 cable is used. in the case of using a CAT5 twisted-pair cable, the bus length is 300m. The bus is protected from overvoltage and the transmission is secured with high level encryption protocol.

The first bus is used to support I/O modules, the second bus is used to support factors in various standards eg. OSDPv1, OSDPv2, EQUbus. Communication with readers and modules is bi-directional with full control of bus interruptions or attempts to connect an unverified device to the bus.

At each stage of data exchange, the transmission is fully encrypted (card-reader, reader-controller connection, input/output module - controller, controller - supervisory system).

Each session of connection with any device (the session includes 65,000 packets) is divided into stages: establishing a connection with authorization, estabilishing encryption keys and device verification takes place with AES256 encryption. After establishing communication, 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 estabilished.

The supervisory software automatically detects new controllers on the network. In order to protect against network attacks, the controller does not respond to standard packets, e.g. PING packets. It is seen from the network side as an unknown host using one port that cannot be accessed.

The design of the controller allows to work in with or without supervisory software (online / offline operation). The controller's memory stores full authorizations for 1,000,000 cards and 500,000 recent events. Thanks to this, the controller can work for many months without connection to the supervisory system without data loss.

Anti-passback support can be performed locally within the controller or globally throughout the network. For global anti-passback, Ethernet transmission with other controllers is used.

The locking mechanism can be operated within one controller or in cooperation with many controllers over the Ethernet network connecting the controllers

Each access control user can have any number of identifiers and can be assigned to any number of doors Having 256 time schedules at our disposal with the possibility of declaring up to 12 daily plans for each time schedule, we can freely manage users.

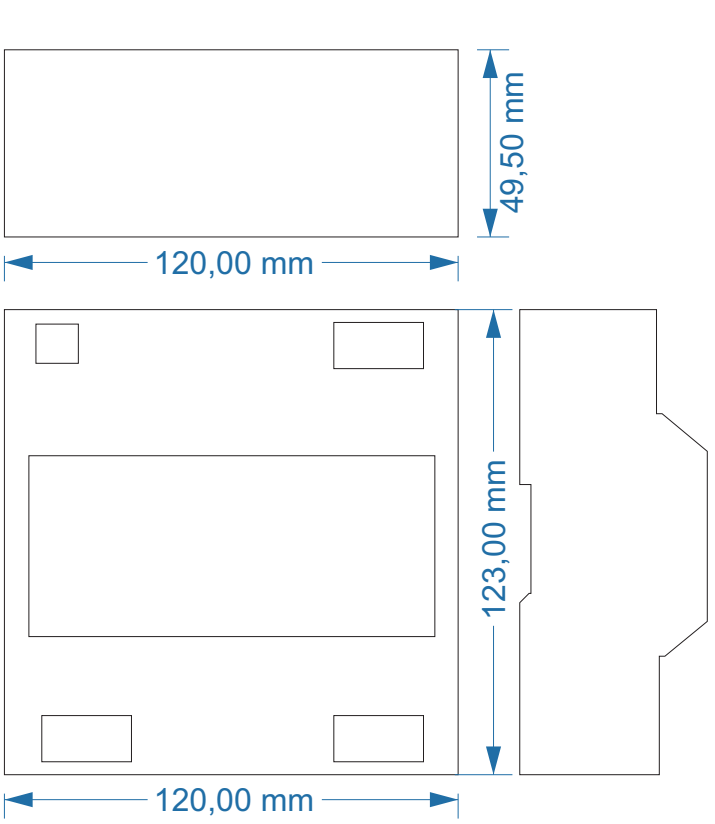
The controller is powered by a DC voltage from 10V to 28V, thanks to which one power supply can supply all electronic devices, even over long distances (when using 24VDC)

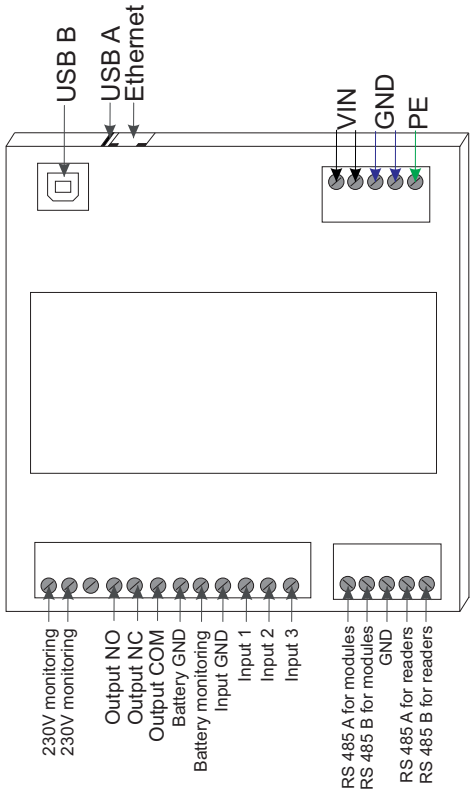
The controller directly monitors the 230VAC power supply and the battery status in the range from 10 to 28VDC. The voltage values are registered at a specified time and in the event of their rapid change, alerting the operator about a power failure.

The controler has overvoltage protection on the Ethernet side up to 150A (10 / 1000µs) in accordance with the IEC 61000-4-5 standard. On RS485 buses it has protection up to 600W (10/1000 µs).

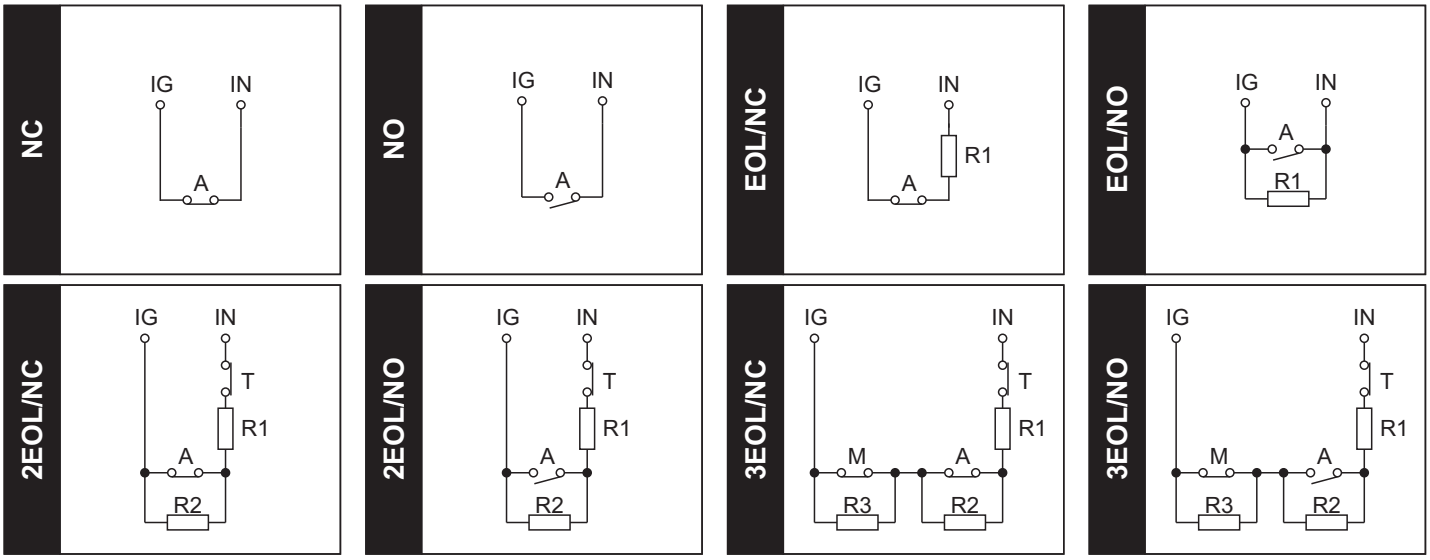
EQU ACC

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.