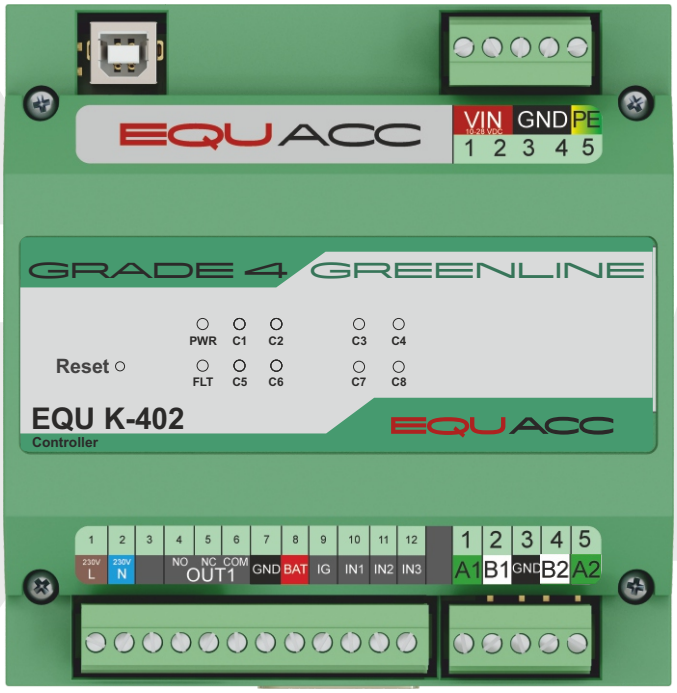
K402 | Controller for three access points

GRADE 4

Made in Europe



Device description

EQU-K402 is an advanced controller compliant with the highest, Class 4 security requirements in accordance with EN 60839-11-1:2013. It supports up to three access points and is supplied in a modular DIN-rail enclosure for easy installation.

Access points & readers

Each access point can accommodate up to four programmable readers (entry or exit). The controller features one 1 A/24 VDC relay output and three configurable control inputs for monitoring open, closed, short-circuit, or tamper states. Additional I/O modules allow system expansion to support up to nine access points.

Communication & data transmission

Communication with the supervision system is carried out via Ethernet using secure, encrypted transmissions. The controller features two independent RS485 buses, supporting distances of up to 1000 m with dedicated cabling and up to 300 m using Cat5 twisted-pair cable. Both buses are surge-protected. The first bus is used for I/O modules, while the second handles readers in various standards, including OSDPv1 and OSDPv2. Communication with readers and modules is bidirectional, with full monitoring of bus interruptions and attempts to connect unauthorized devices. Data transmission is encrypted at every stage: between the card and reader, reader and controller, module and controller, and controller and system. Authorization and key exchange are performed using AES-256, while ongoing transmissions use AES-128 with a variable encryption key. A new key agreement is established at the end of each session.

System functions

The supervisory software automatically detects new controllers on the network, while the controller itself does not respond to standard PING packets, making it invisible on the network and additionally protected against attacks. It can operate in both online and offline modes. The device memory can store up to one million card permissions and 500,000 recent events, allowing extended independent operation without data loss. The anti-passback function can be implemented locally on a single controller or globally across the entire Ethernet network. Turnstile control is available both locally and in coordination with multiple controllers. Each system user can be assigned any number of identifiers and access to any number of access points. There are 256 time schedules available, each supporting up to 12 daily plans, providing flexible user management.

Power supply & monitoring

The controller is powered by a DC voltage ranging from 10 to 28 VDC, allowing all peripheral devices to be supplied from a single power source, even over longer distances, particularly when using 24 VDC. The EQU-K402 directly monitors the status of the 230 VAC supply and the 10–28 VDC battery. Voltage values are periodically recorded, and sudden changes trigger an alarm indicating a power fault.

Hardware protections

The device features surge protection on the Ethernet side up to 150 A (10/1000 µs) in accordance with IEC 61000-4-5, and on the RS485 buses up to 600 W (10/1000 µs).

The actual appearance of the products may differ from the images shown. The product descriptions provided are for informational purposes only.

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IFTER®

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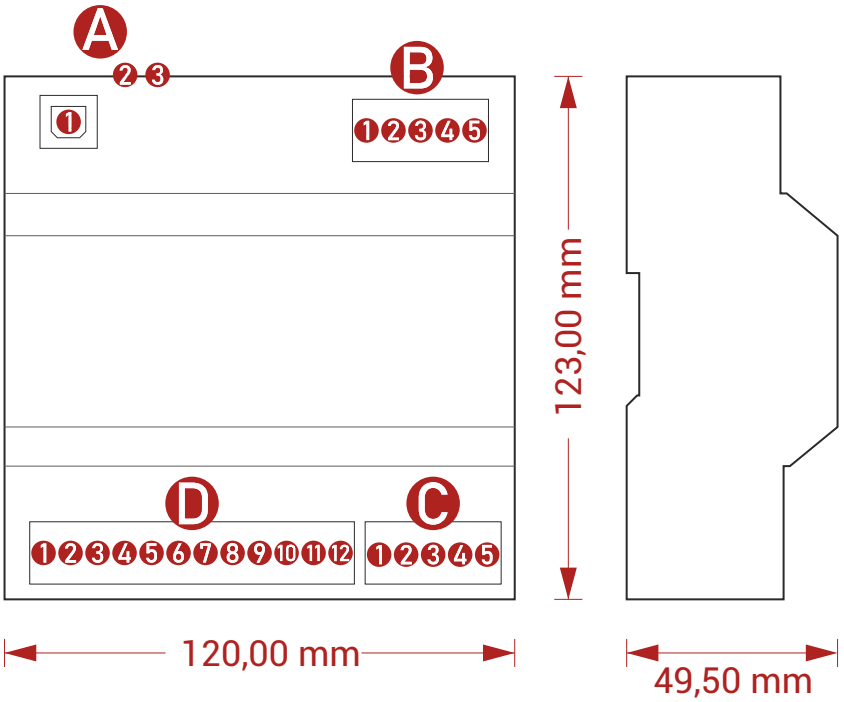
TECHNICAL DATA

Number of access points:	3
Controller capacity:	1 000 000 users
Event buffer:	500 000 records
Power supply:	10 - 28 VDC, 1W
Computer interface:	Ethernet (LAN/WAN)
Protocol:	TCP/IP
Transmission speed:	10/100 Mbps
Reader connection:	RS485 (OSDP2)
Bus lenght:	max. 1000 m
Enclosure:	DIN - 35M
Dimensions (mm):	123 × 120 × 50
Operating environment:	-10°C...+40°C
Inputs:	230V, battery, tamper, 3 definable
Outputs:	1A relay 24V
Contact type:	NOC
Number of poles:	1
Maximum load:	0.5 A / 120 VAC, 1 A / 24 VDC
Electrical lifetime:	3,000,000 operations
Insulation voltage:	1 Vrms / 1 min.

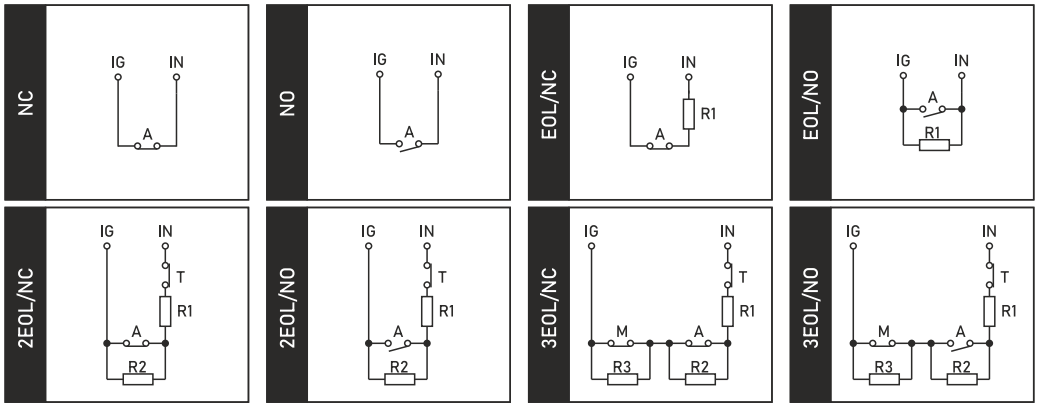


A
1. USB B
2. USB A
3. Ethernet

C
1. Power supply
2.
3. Ground
4.
5. Earth

B
1. RS 485 A for module connection
2. RS 485 B for module connection
3. Ground
4. RS 485 B for reader connection
5. RS 485 A for reader connection

D
1. 230V power supply monitoring
2. 230V power supply monitoring
3.
4. Normally open output contact
5. Normally closed output contact
6. Common output contact
7. Ground
8. Battery power monitoring
9. Ground
10. Input 1
11. Input 2
12. Input 1



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