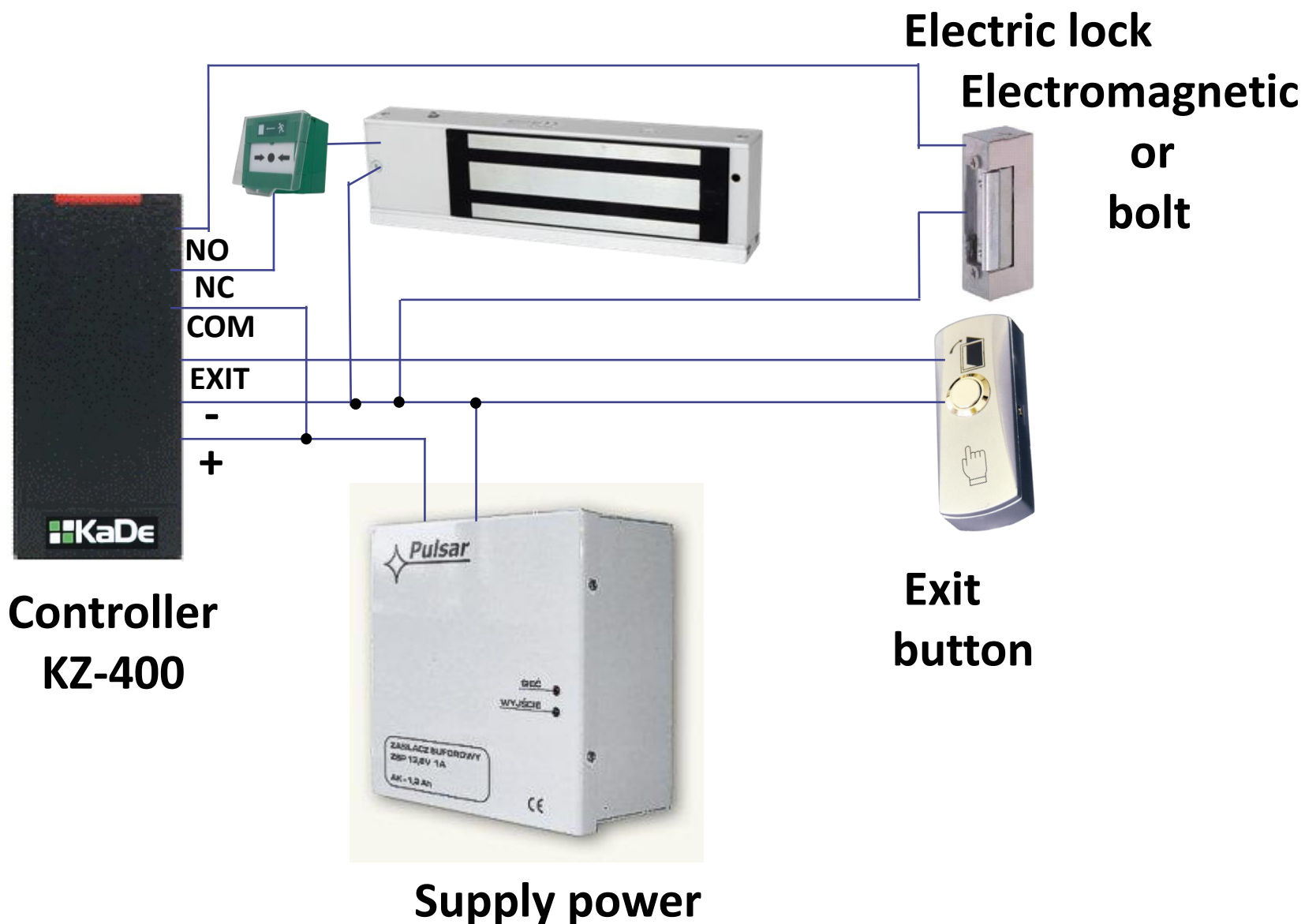# ACCESS CONTROL SYSTEM

System versions

- **Standalone controllers series based on integrated models KZ-400, 500, 600, 700, KZC-300,800, 900**

- **KaDe Lite system based on integrated controllers KZ-1000**

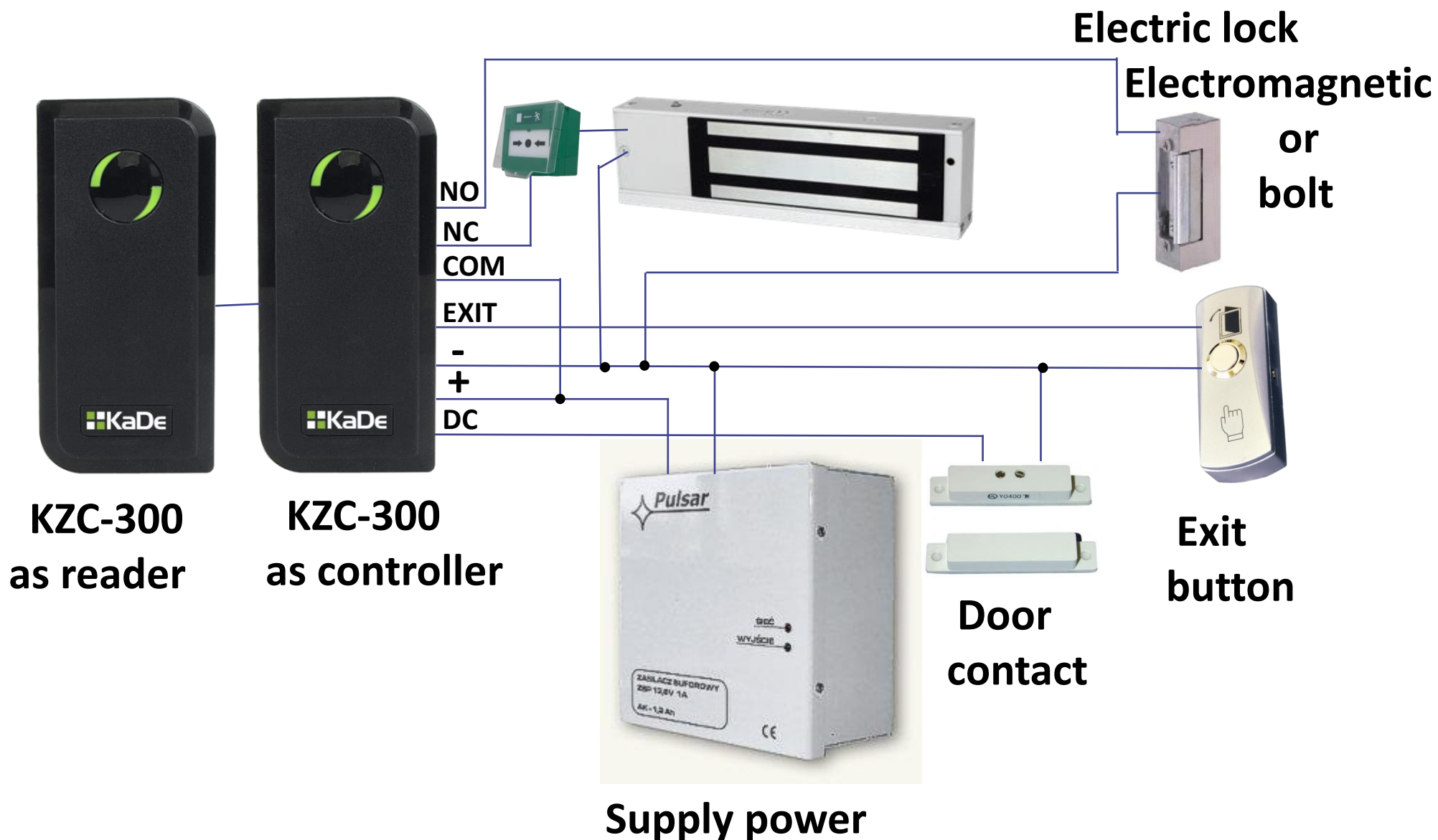- **KaDe Premium system based on standard controllers KS-1012/1024-RS/IP**

Standalone controllers series – KZ-400

Standalone controllers series – KZ-400

Electric lock
Electromagnetic
or
bolt

NO
NC
COM
EXIT
-
+

Controller
KZ-400

Supply power

Exit
button

4

Standalone controllers series – KZ-400

Electric lock
Electromagnetic or bolt

NO
NC
COM
EXIT
-
+
DC

KZC-300 as reader

KZC-300 as controller

Supply power

Door contact

Exit button

Standalone controllers series – KZ-400

- ❖ Waterproof, confirm to IP66
- ❖ Read 125KHz EM & HID card
- ❖ One programmable relay operation
- ❖ Pulse mode, Latch mode
- ❖ Remote infrared programmer
- ❖ 2000 users
- ❖ Card block enrolment
- ❖ Tri-colour LED status display
- ❖ Built in light dependent resistor (LDR) for anti tamper
- ❖ Buzzer for audible or silent mode
- ❖ Low temperature resistance(-40℃)

Standalone controllers series – KZ-500

- ❖ Standalone controller with built in Card Reader
- ❖ Waterproof, confirm to IP68
- ❖ Use capacity: 10,000
- ❖ Card interface: HID&EM 125KHZ card/tag
- ❖ Remote control for programming
- ❖ With Manager cards for fast add and delete users
- ❖ Card block enrollment
- ❖ Can enroll maximum 10,000pcs cards at a time within 10 min.
- ❖ Wiegand 26 input/output
- ❖ Can be used as salve reader
- ❖ 2 pcs of KZ-500 can be interconnected
- ❖ Can be used as controller by connection Wiegand reader
- ❖ Anti-passback function
- ❖ Alarm signal output, Door open detection
- ❖ LED display
- ❖ Full of 10000 users, recognizing speed <15ms.

# Standalone controllers series – KZ-600

- ❖ Waterproof, conforms to IP68
- ❖ Strong zinc alloy electroplated anti-vandal case
- ❖ Two-relay operation
- ❖ Both of the 2 zone relays can be programmed for 3 modes: Card + PIN, Card, PIN
- ❖ 1200 uses capacity:
    - Zone 1: up to 1100 Pin& Card holders
    - Zone 2: up to 100 Pin& Card holders
- ❖ Pin length: 4-8 digits; card type: 125KHz EM card
- ❖ Can be used as a stand alone keypad
- ❖ Pulse mode, Toggle mode
- ❖ Block enrollment, can enroll 1100 consecutive cards within 2 minutes
- ❖ Backlight keypad
- ❖ Adjustable Door Relay Output time, Alarm time, Door Open time
- ❖ Built in light dependent resistor (LDR) for anti tamper
- ❖ Built in buzzer
- ❖ Dual relay outputs for door opening, door status detecting, open door by button
- ❖ Red, Yellow and Green LEDS display the working status
- ❖ Support door bell connection (Zone 2)
- ❖ 12-24V DC/12-18V AC power input

Standalone controllers series – KZ-700

- ❖ Waterproof, conforms to IP68
- ❖ Strong zinc alloy electroplated anti-vandal case
- ❖ Dual-relay operation
- ❖ 2,100 users & 10 groups duress PIN/card
- ❖ Zone 1: up to 2,000 PIN & card holders
- ❖ Zone 2: up to 100 PIN & card holders
- ❖ Relay of both zones can be programmed for 3 modes: card, PIN, card + PIN
- ❖ Read both 125KHz EM & HID card
- ❖ PIN length: 4-8 digits
- ❖ Pulse mode, Toggle mode
- ❖ Wiegand 26-37 input & output
- ❖ Can be worked as reader or controller

Standalone controllers series – KZ-700
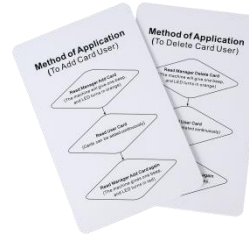
- ❖ Dual-relay output for door opening, door status detecting, open door by button
- ❖ Card block enrollment
- ❖ With manager cards for adding or deleting card user easily
- ❖ Very low power consumption (25mA)
- ❖ Backlight keypad
- ❖ Light and sound of keypad can be set
- ❖ Support door bell connection (Zone 2)
- ❖ Built in light dependent resistor (LDR) for anti tamper
- ❖ Built in buzzer
- ❖ Red, yellow, green and blue LED display the working status
- ❖ 12-24V DC /12-18V AC

Standalone controllers series – KZC-800/900

- ❖ 2 000 users with card and PIN
- ❖ 3 identification modes: card, PIN, card + PIN
- ❖ Read both 125KHz EM & HID card, PIN length: 4-8 digits
- ❖ Pulse mode, Toggle mode of lock relay
- ❖ Wiegand 26-37 input & output
- ❖ Can be worked as controller or reader
- ❖ Relay output for door opening, inputs for door status and exit button
- ❖ Manager cards for adding or deleting card user easily
- ❖ Backlight keypad
- ❖ Support door bell connection
- ❖ Built in light dependent resistor (LDR) for anti tamper
- ❖ Red, yellow and green LED display the working status
- ❖ Very low power consumption (35mA)
- ❖ 12-24V DC

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Standalone controllers series – KZC-300

- ❖ 2 000 users with card and PIN
- ❖ 3 identification modes: card, PIN, card + PIN (PIN using pilot)
- ❖ Read both 125KHz EM & HID card, PIN length: 4-8 digits
- ❖ Pulse mode, Toggle mode of lock relay
- ❖ Wiegand 26-37 input & output
- ❖ Can be worked as controller or reader
- ❖ Relay output for door opening, inputs for door status and exit button
- ❖ Manager cards for adding or deleting card user easily
- ❖ Built in light dependent resistor (LDR) for anti tamper
- ❖ Red, yellow and green LED display the working status
- ❖ Very low power consumption (35mA), 12-24V DC

KaDe Lite & Premium version

- **System structure based on integrated controllers KZ-1000 (KaDe Lite)**

- **System structure based on standard controllers KS-1012/1024-RS/IP (KaDe Premium)**

- **Internal communication based on RS485 network or IP protocol**

- **Multi-site system through LAN/WAN**

- **One workstation for system operator**

System Features

- **Electronic graphics with animated icon system components**

- **On-line monitoring for events and alarms**

- **User photo display after card usage**

- **Integration with CCTV - video compression card or DVR (4, 8 or 16 cameras)**

- **Saving the snapshot photo to the event/alarm archive**

System Features

- **Access after operator's confirmation**

- **Access after „first opening card"**

- **Multiple card access (1 to 4)**

- **Door opening according to the schedule after card reading**

- **Local anti-passback**

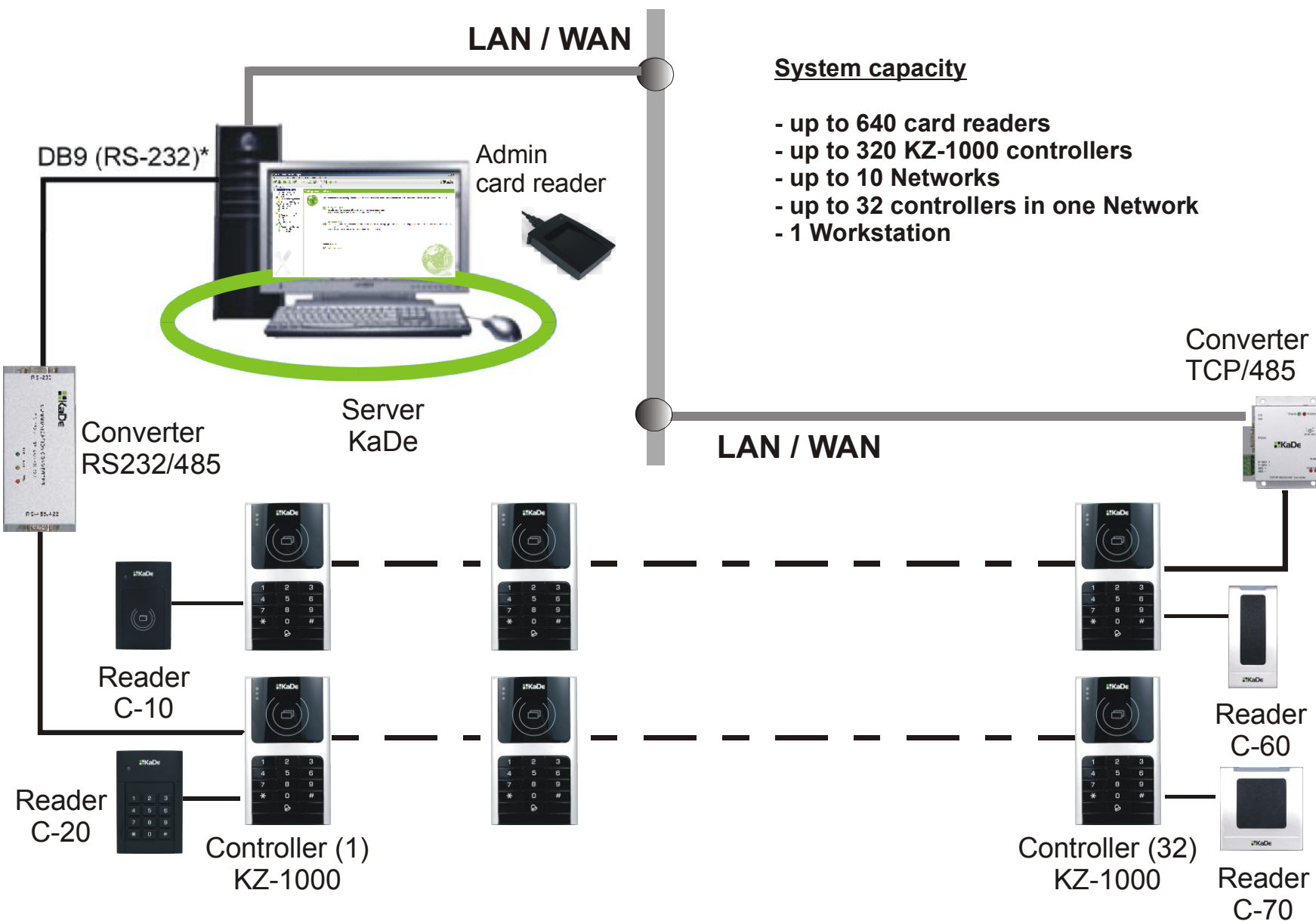- **Query reports on access events, alarms, time & attendance saved as Excel files**

KaDe Lite

- Simple version -

KaDe Lite - System Architecture

LAN / WAN

DB9 (RS-232)*

Admin card reader

System capacity

- up to 640 card readers
- up to 320 KZ-1000 controllers
- up to 10 Networks
- up to 32 controllers in one Network
- 1 Workstation

Converter
RS232/485

Server
KaDe

Converter
TCP/485

LAN / WAN

Reader
C-10

Reader
C-20

Controller (1)
KZ-1000

Controller (32)
KZ-1000

Reader
C-60

Reader
C-70

KaDe Lite - System Components

- **Management software: KaDe Lite**

- **Integrated controllers: KZ-1000**

- **Proximity card readers (UNIQUE type)**

- **Administrator card reader**

- **Communication converters (RS, USB, TCP)**

- **Proximity cards - UNIQUE type (EM) 125 kHz**

KaDe Lite - Management Software

- **Quick and easy installation**

- **User friendly and intuitive Graphical User Interface**

- **English and Polish menu (other languages will be added)**

- **Electronic graphics with icons**

- **Integration with CCTV**
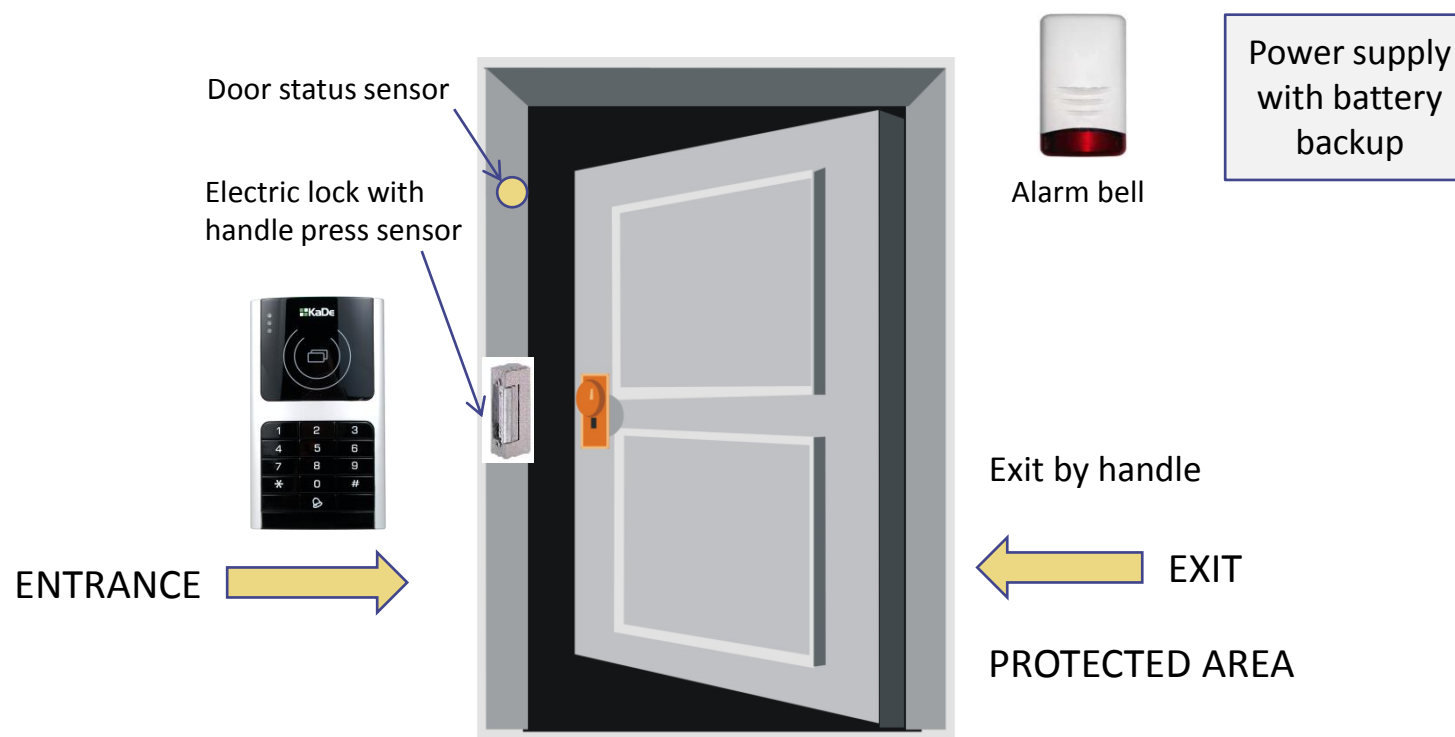
- **Filtered reports in Excel format**

Integrated Controller: KZ-1000

- Controller module

- Card reader with keypad

- LED and Buzzer

- Communication ports: RS232 and RS485

- Exit reader port

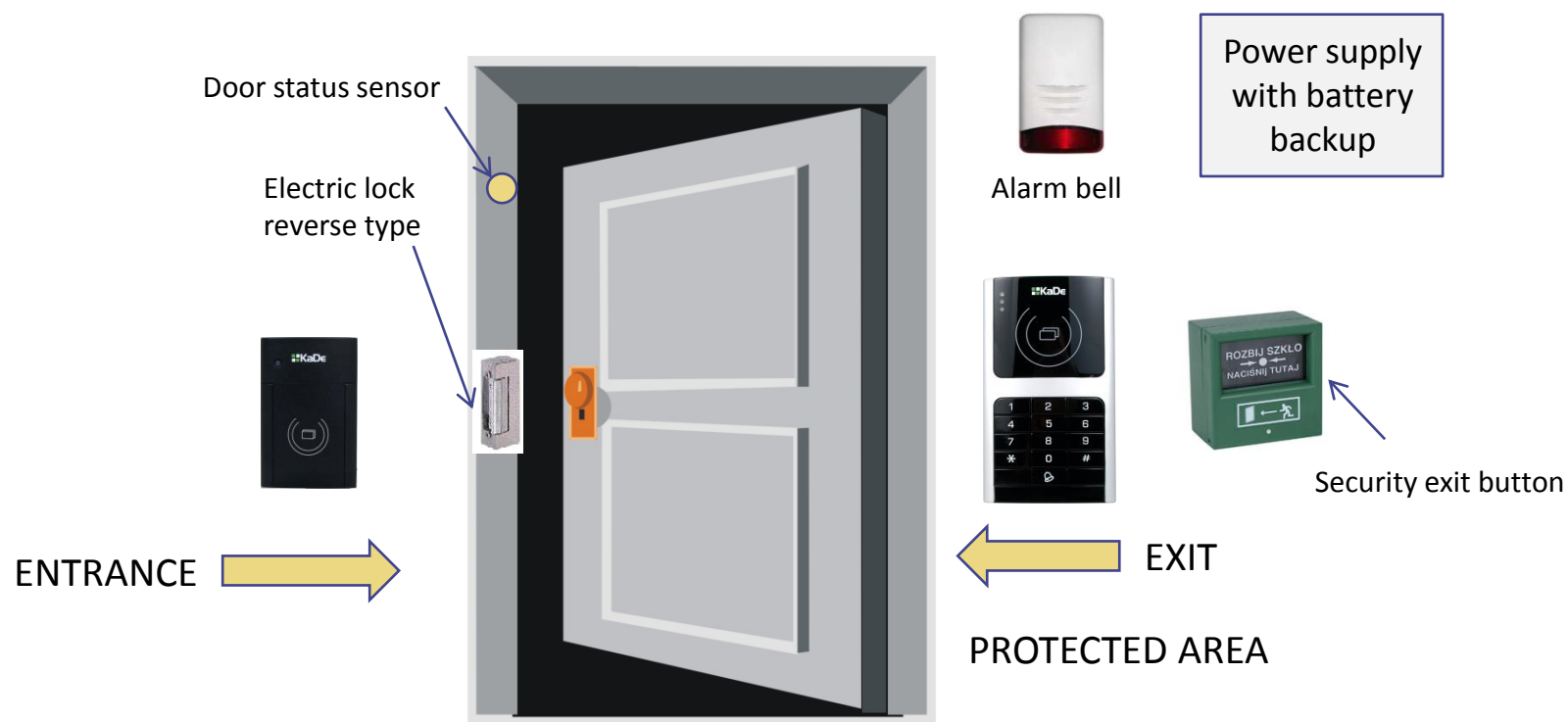- Lock control and Alarm Relays

- Tamper

- Stand-alone and Network mode

KaDe Lite - System Components
One way control

Door status sensor

Electric lock with
handle press sensor

Power supply
with battery
backup

Alarm bell

Exit by handle

ENTRANCE

EXIT

PROTECTED AREA

KaDe Lite - System Components
Two way control

Door status sensor

Electric lock
reverse type

Alarm bell

Power supply
with battery
backup

Security exit button

ENTRANCE

EXIT

PROTECTED AREA

KaDe Premium

- Advanced version -

KaDe Premium - System Architecture

LAN / WAN

DB9 (RS-232)*

Admin
Card Reader

Server
KaDe

Converter
RS232/485

Converter
TCP/485

System capacity

- up to 4096 readers
- up to 1024 controllers
- up to 20 Networks RS485
- up to 32 controllers in one Network
- 1 Workstation

LAN / WAN

Controller
KS-1012-IP

Controller
KS-1024-IP

Reader
C-10

Reader
C-60

Reader
C-20

Reader
C-70

Controller (1)
KS-1012-RS

Controller (32)
KS-1024-RS

24
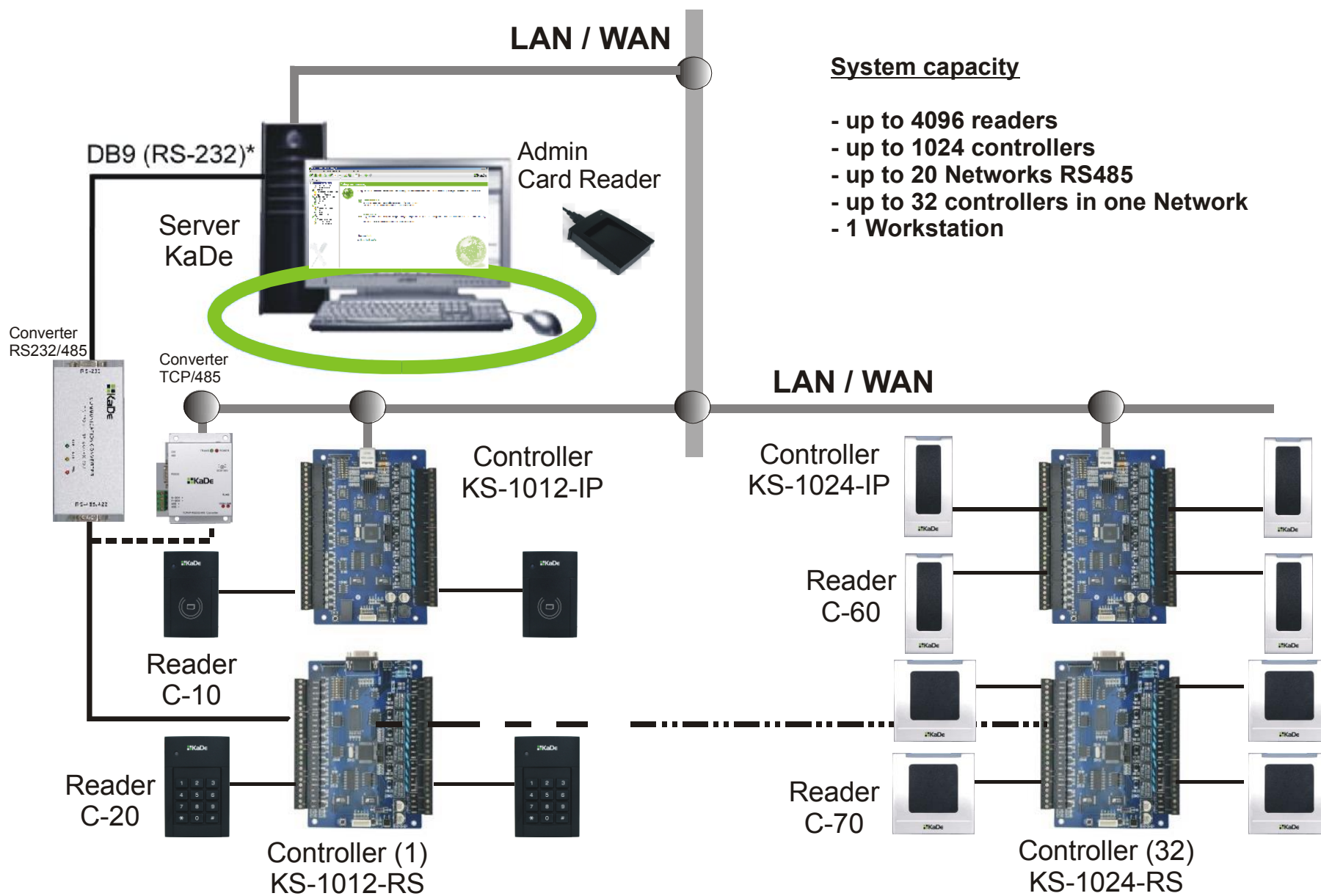
KaDe Premium - System Components

- **Management software: KaDe Premium**

- **Standard controllers: KS-1012/1024-RS/IP**

- **Readers with Wiegand output of up to 40 bits (Unique (EM), HID Prox, Mifare)**

- **Administrator card reader**

- **Communication converters (RS, USB, TCP)**

- **Proximity cards or biometric identification**

KaDe Premium - Management Software

- Quick and easy installation

- User friendly and intuitive Graphical User Interface

- English and Polish menu (other languages will be added)

- Electronic graphics with icons

- Integration with CCTV

- Filtered reports in Excel format

KaDe Premium - Management Software

Standard controllers:
KS-1012-RS, KS-1024-RS, KS-1012-IP, KS-1024-IP
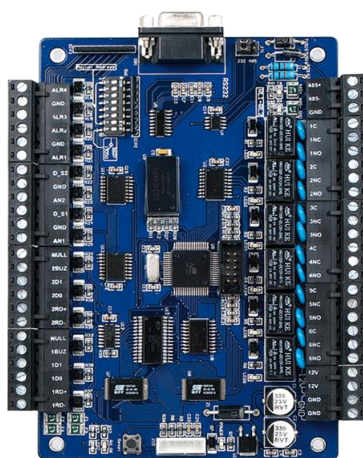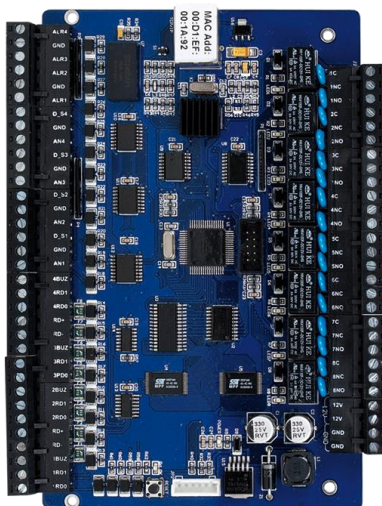
- 4 doors - one way, 2 doors - two ways (KS-1024)

- 2 doors - one way, 1 door - two ways (KS-1012)

- 4/2 ports for readers with Wiegand outputs (26-40 bits)

- 8/4 inputs - door contacts and exit button

- 4 inputs - general use

- 4/2 relay outputs for electric lock control

- 4 /2 relay outputs - general use (+ 4 out on module)

- Communication ports - TCP or RS232/RS485

- 20 000 Card Memory
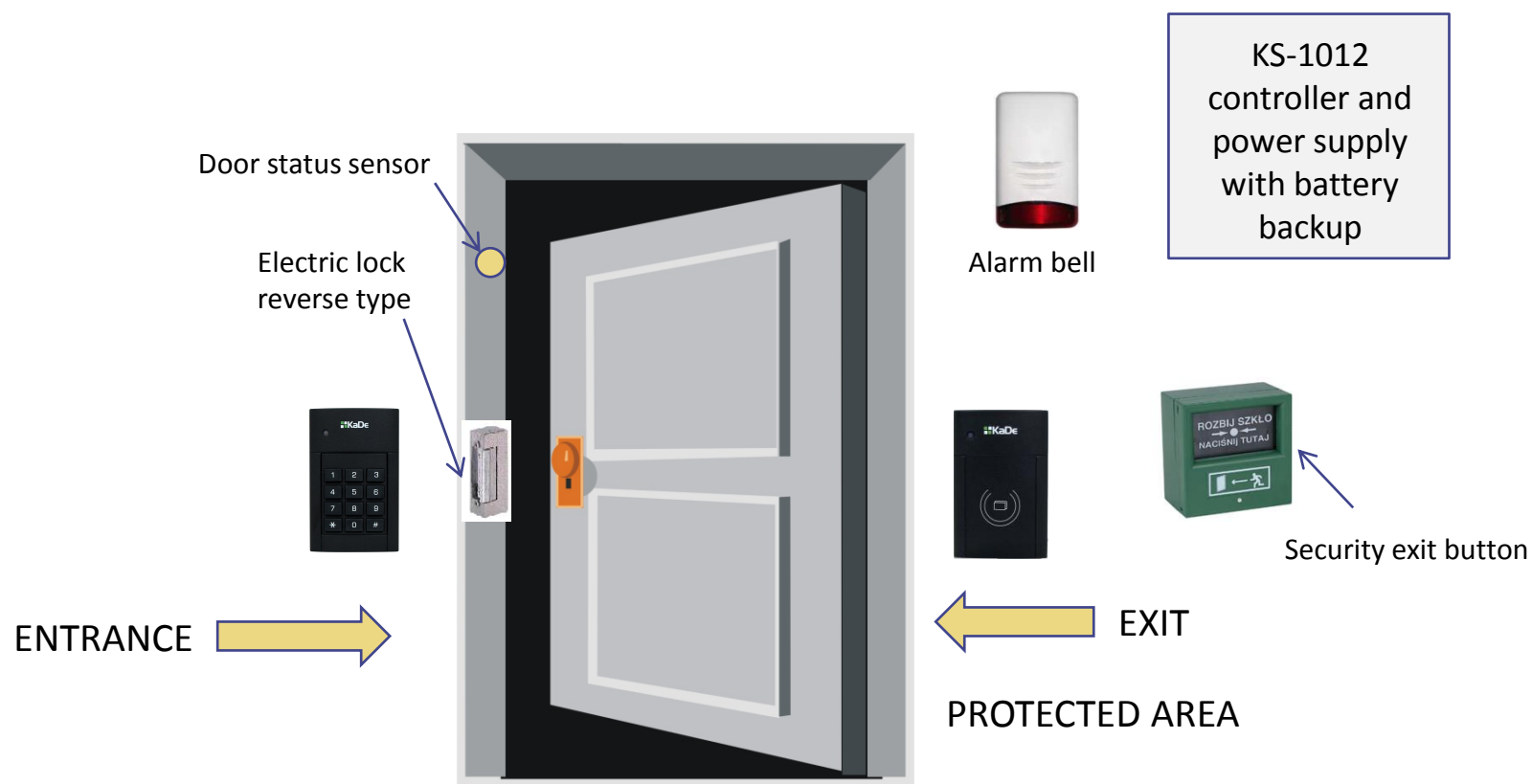
- 50 000 Event Buffer, 20 000 Alarm Buffer

Power supply for standard controllers

APS-AAT-2   APS-AAT-3

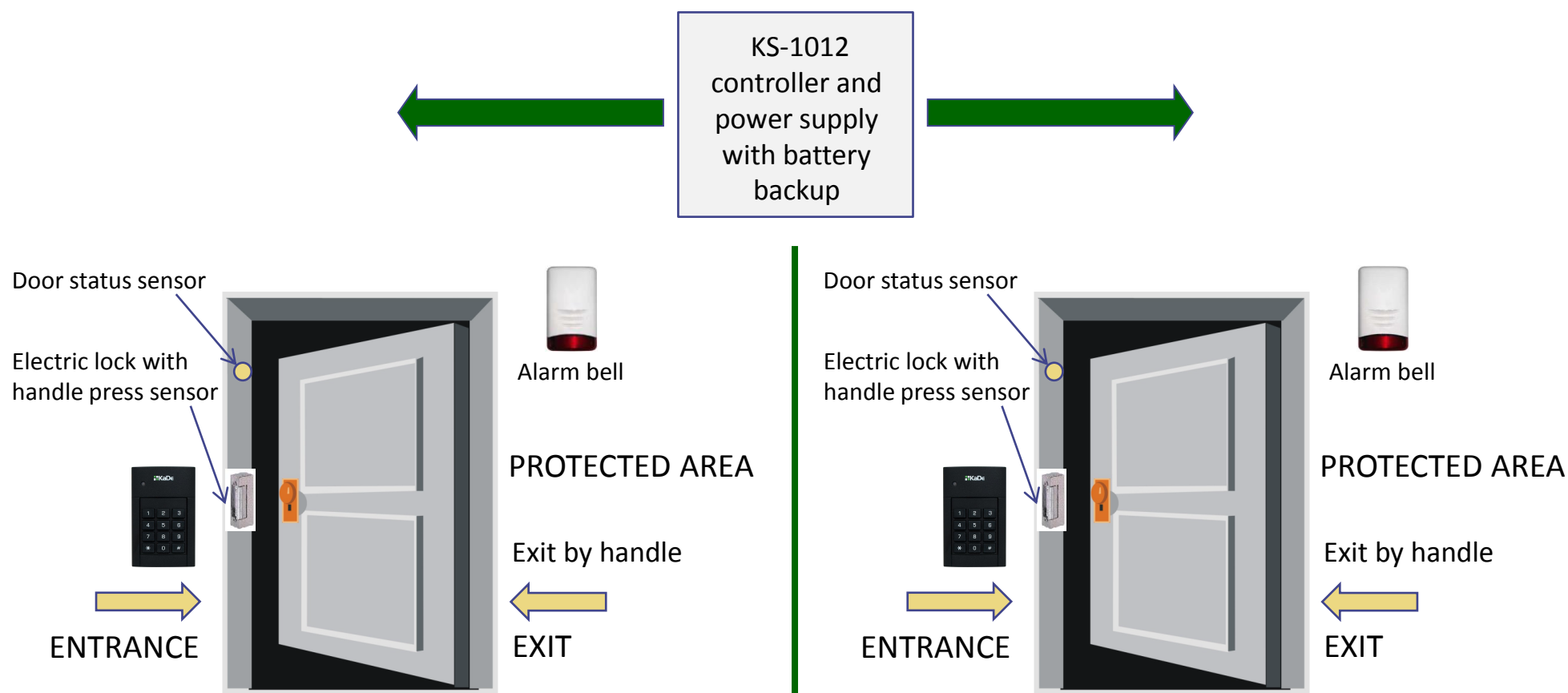# KaDe Premium - System Components
Two way control - one door - KS-1012

Door status sensor

Electric lock reverse type

Alarm bell

KS-1012 controller and power supply with battery backup

Security exit button

ENTRANCE

EXIT

PROTECTED AREA

30

KaDe Premium - System Components
One way control - two doors - KS-1012

KS-1012 controller and power supply with battery backup

Door status sensor

Electric lock with handle press sensor

Alarm bell

PROTECTED AREA

Exit by handle

ENTRANCE   EXIT

Door status sensor

Electric lock with handle press sensor

Alarm bell

PROTECTED AREA

Exit by handle

ENTRANCE   EXIT

KaDe Premium - System Components
Two way control - two doors - KS-1024

KS-1024 controller and power supply with battery backup

Door status sensor

Electric lock reverse type

Alarm bell

PROTECTED AREA

ENTRANCE

EXIT

Door status sensor

Electric lock reverse type

Alarm bell

PROTECTED AREA

ENTRANCE
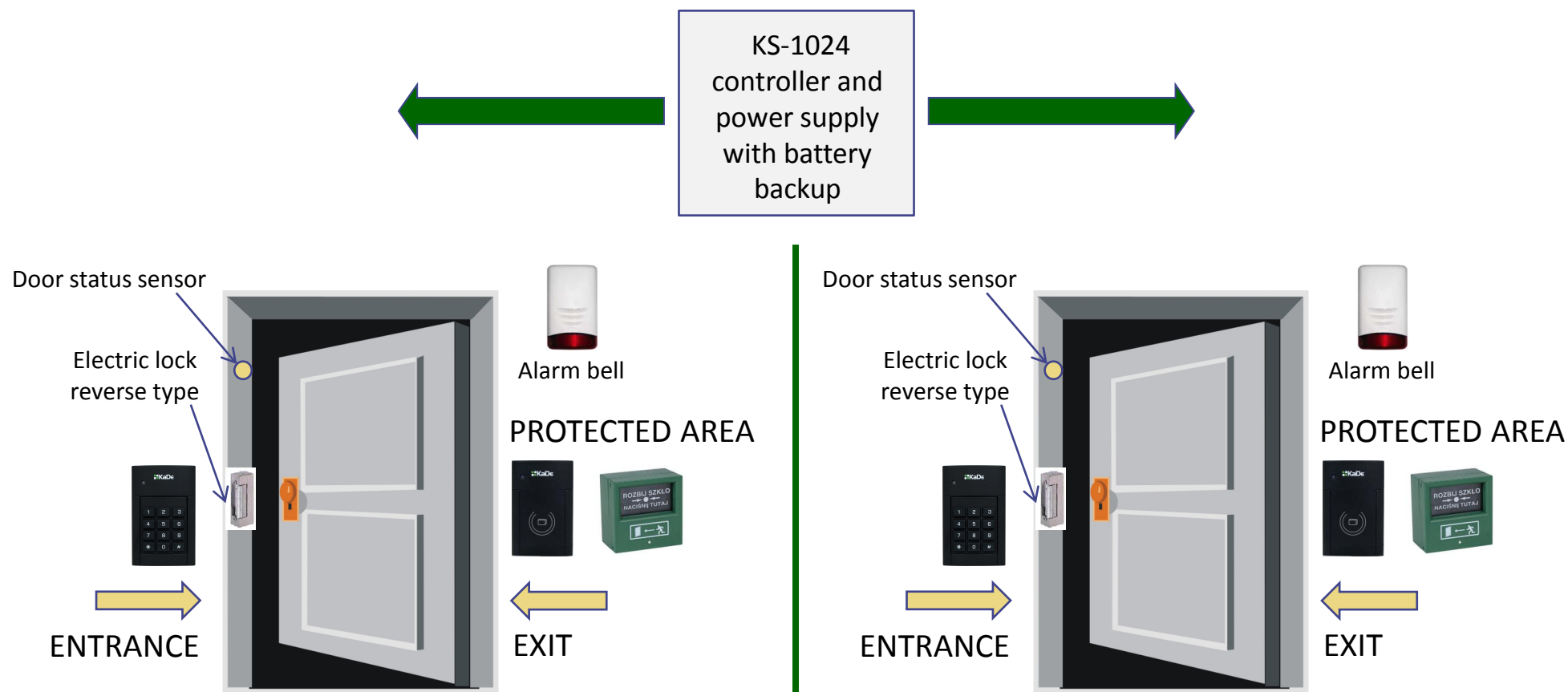
EXIT

KaDe Premium - System Components
One way control - four doors - KS-1024

KS-1024
controller and
power supply
with battery
backup
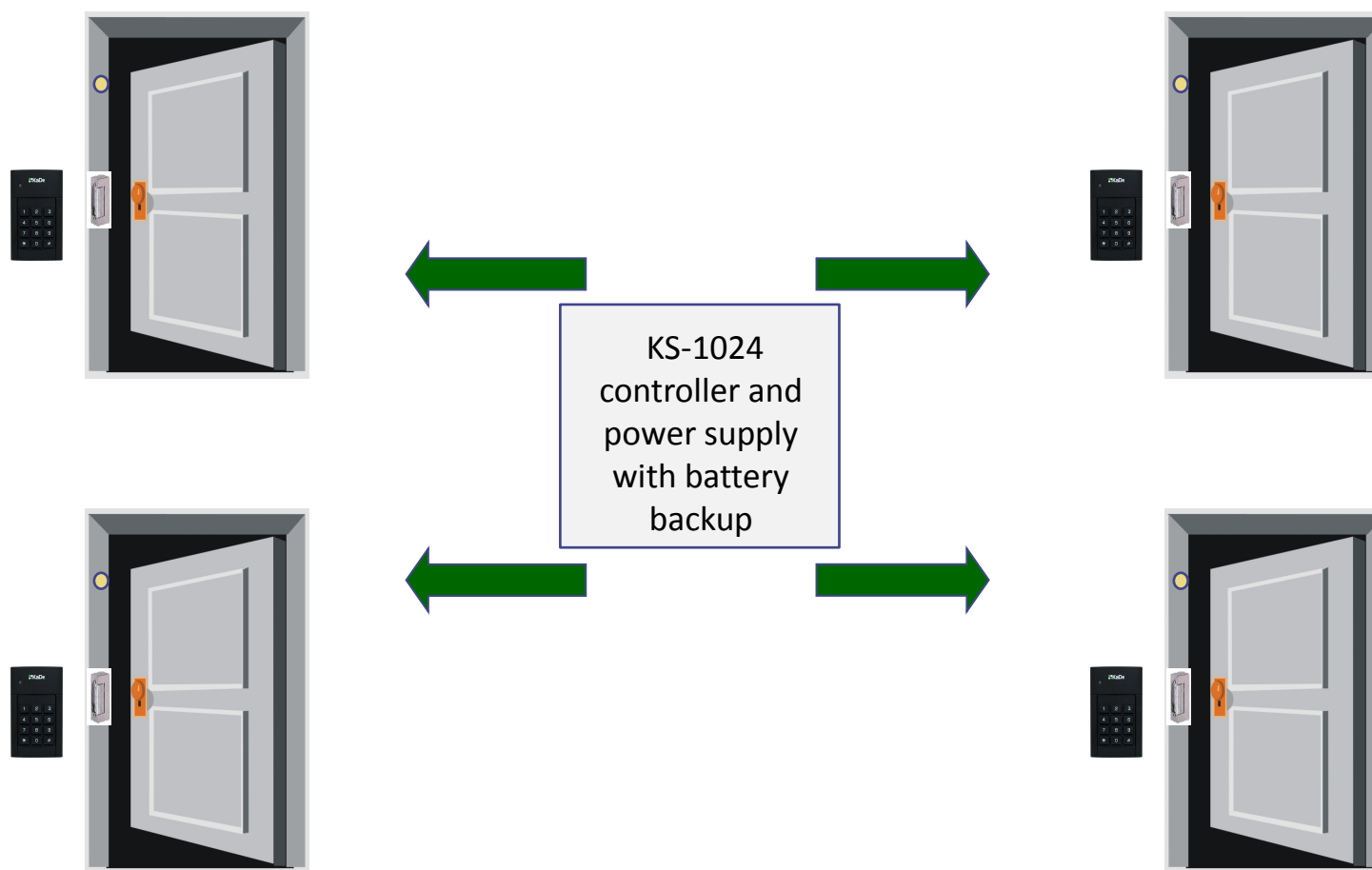
Accessories for Access Control Systems

- **Proximity card readers**

- **Administrator USB readers**

- **Proximity cards**

- **Transmission converters**

- **Electromagnetic locks**

- **Exit buttons**

- **Door closers**

Proximity Card Readers:
C-10, C-20 (UNIQUE), C-11, C-21 (MIFARE)

- Reading range - 10 cm

- Power supply - 12 V

- Current consumption <150 mA

- LED and Buzzer

- Output format: 26 bit Wiegand (C-10,C-20)

- Output format: 34 bit Wiegand (C-11,C-21)

- Indoor and outdoor installation

35

Proximity Card Readers: C-60, C-70

- Reading range - 10 cm

- Power supply - 12 V

- Current consumption <150 mA

- LED and Buzzer

- Output format: 26 bit Wiegand UNIQUE

- Indoor and outdoor installation

Proximity Card Readers: C-30-U/H UNIQUE & HID Prox

- Reading range - 10 cm

- Power supply - 12 V

- Current consumption <30 mA

- LED and Buzzer

- Output format: 26/37 bit Wiegand

- Card format: Unique (EM) & HID Prox (125 kHz)

- Indoor and outdoor installation

37

Admin Card Readers:
C-ADM-U (UNIQUE), C-ADM-M (MIFARE)

- UNIQUE card format (24 bits) reading

- MIFARE card format (32 bits) reading

- Quick addition of card numbers to KaDe data base

- PC connection through USB port
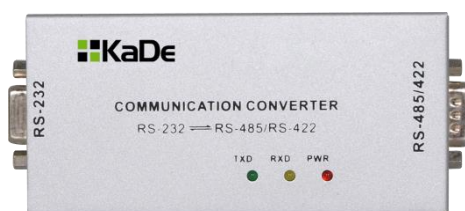
- Power supply from USB port

Proximity Cards:
AST-U (UNIQUE), AST-M (MIFARE)

- **Operating frequency: 125 kHz UNIQUE**

- **Operating frequency: 13.56 MHz MIFARE**

- **Different case: Clamschell, ISO, Tag**

- **Passive technology - supply from reader field**

- **No battery - no limit using time**

Converters:
RS232/RS485, USB/RS485, TCP/RS485

- **Signal conversion from RS485 to RS232, USB and TCP**

- **TX, RX and PWR LED's**

- **Optic isolation in transition line**

- **Surge protection**

- **Power supply - 12 V**

Electromagnetic Locks:
AST-LOCK 1200/600/300

- For surface mount applications

- 'L' and 'Z' brackets available for inward opening doors

- Compact case size and clean aesthetics

- 500/250/136 kg magnetic holding force

- Power supply - 12/24 VDC

- Monitoring status output (1200/600 model)

- CE marked

Exit Buttons: AST-EXIT-M, AST-EBG-R2Z

- Narrow style push button switch

- Illuminated switch with colour lens

- Switching rate - 5 A 250 VAC
              - 6 A 24 VDC

- Suitable for emergency exit and escape doors

- Push plate to stop connected circuit (2xNO/NC/COM)

What will be new in KaDe in next months?

- **KaDe Net – network version of KaDe software:**

  - Server/Client version

  - secured by watchdog USB key

  - new design

  - possibility to connect more than one DVR (Novus B series)

  - map hierarchy structure

  - camera icons on the map with small video window

What will be new in KaDe in next months?

- **KaDe KS-1012/24-U – new universal controllers:**

    - IP and RS485 ports on board – two models only

    - new firmware with new features:

        - door status monitoring- door forced, door held

        - inputs monitoring – alarm start/stop

        - more messages for different events description

- **KaDe KZ-1000-U – new integrated controller:**
    - IP and RS485 ports on board
    - new firmware with new features as above

Thank you for considering KaDe for your access control needs