

Datasheet

A22K - 2-Door/4-Reader IP Controller

Product Description

The A22K 2-door IP controller works perfectly with the most popular Wiegand card readers or with the embedded KRYPTO high-security solution, providing the best of both worlds in access control.

KRYPTO is the easiest solution to manage DESFire® EV2/EV3 smart credentials on the market making worries of card cloning a thing of the past. The auto-restore of encryption keys upon power failure ensures an effortless system start up and management.

Additionally, the A22K can easily be converted to an Elevator Controller (A22KEC), Schlage Door Handle Controller (ADH2K), or Aperio Door Handle Controller (A2PK) as needed. ATRIUM's efficiency will simplify your life.



System Capacity	
Users / Cards	10,000 / 10,000
Access Levels	1,000
Holidays	100
Schedules (100 time periods each)	250
Event Buffer	25,000
Floor levels	256
Areas	10

Key Features

- Supports 2 doors & 4 readers (read-in/read-out with KRYPTO readers)
- End-to-end AES encryption (when combined with KRYPTO readers)
- Embedded secure HTTPS (SSL/TLS) web server
- Includes free ATRIUM software/updates & 5 Mobile-PASS per site
- Up to 500 doors, 10,000 users & cards
- Pre-assembled plug-in power supply
- App to unlock doors with a phone (when combined with KRYPTO mobile-ready readers)

UK CA Certification

CE Certification

DEEE

RoHS Certification

t -20°C to 70°C

All the information contained within this document (pictures, drawings, features, dimensions, specifications), could be perceptibly different and can be changed without prior notice. Published: 15 May 2025. CDVI_A22K_DS_03_EN-FR_A4_C

Communication

On-board Ethernet: 10/100 Base-T, Auto Sensing, 100 m (300 ft)

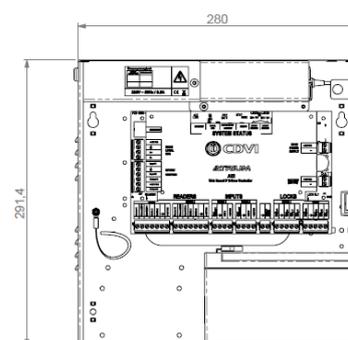
Local BUS: RS485 communication for expanders



Input Specifications

Reader/Keypad Ports (Wiegand or RS485): 2

Multi-purpose inputs: 2 (4 using zonedoubling)



Output Specifications

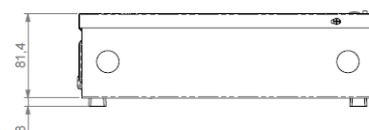
Lock outputs: 2 (750 mA @12V DC/each)

Relay outputs: 2 Form C relays, 5A @250V AC, 7A @125V AC, 7A @30V DC

Reader Outputs

(Wiegand): 6 x 50 mA Open collector output

Multi-purpose outputs: 2 x 50 mA Open collector output

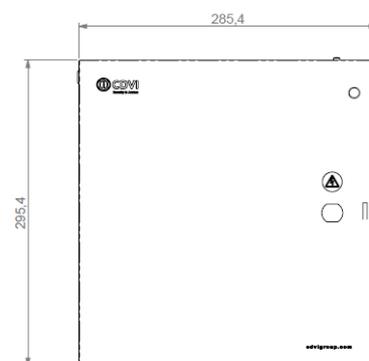


On-board Protection (all fuseless and auto-resume)

LK1 & LK2 12V DC @ 750 mA

Auxiliary outputs: 1A (12V DC) fuseless protection

Battery: Against reversal, short, current limited/monitored



Electrical Specifications

Power input: 120V AC to 240V AC, 50/60Hz

Power output: 24V DC, 2.5 A

AC Terminal Fuse: 250 VA, 2.5 A. Time Lag, Slow Blow

Power Loss Indicator: Yes (DC IN)

Battery backup: One 12V DC, 7 Ah, gel cell batteries

Recommended Wiring

Equipment	Wire Type	Size	Maximum Length
Card reader and Wiegand keypad	4 to 8 conductors, stranded, shielded (foil), drain conductor. For example: Alpha 5196, 5198, 5386, 5388, Belden 9553	22AWG (0.64 mm) to 18AWG (1.02 mm)	150 m
Zone input	2 conductors, copper 22AWG (0.64mm)	22AWG (0.64 mm)	600 m
Door strike	2 conductors, solid copper 18AWG (1.02 mm)	18AWG (1.02 mm)	150 m
Power Supply	3 conductors, solid copper 18AWG (1.02 mm)	14AWG (1.63 mm)*	8 m
Ethernet	CAT 5/5e	-	100 m
RS485 bus, Star or Daisy Chain (no BIAS/EOL required)	CAT 5/5e or 4 pairs	24AWG (0.51 mm)	1220 m
	4 conductors, copper	26AWG (0.40 mm) to 18AWG (1.02 mm)	