

Datasheet

A22K - 2-Door/4-Reader IP Controller

Product Description

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

KRYPTO makes managing DESFire® EV2/EV3 smart credentials easy, 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 easily converts to a Lift Controller (A22KEC), Schlage Door Handle Controller (ADH10), or Aperio Door Handle Controller (AP22K) as required.

ATRIUM's efficiency simplifies your life.



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 smartphone credentials per site
- Up to 500 doors, 10,000 users & cards
- Pre-assembled plug-in power supply
- App to unlock doors with a smartphone (when combined with KRYPTO mobile-ready readers)

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

UK CA Certification

CE Certification

DEEE

RoHS Certification

t -20°C to 70°C

Communication

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

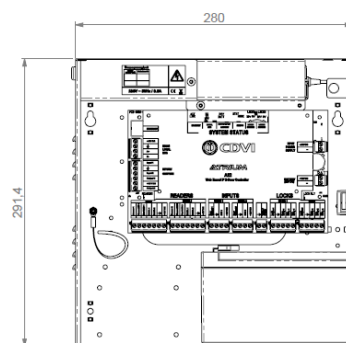
Local BUS: RS485 communication for expanders



Input Specifications

**Reader/Keypad ports
(Wiegand or RS485):** 2

Multi-purpose inputs: 2 (4 using zone doubling)



Output Specifications

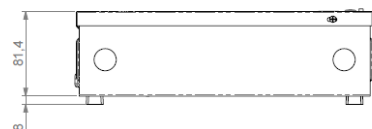
Lock outputs: 2 (750 mA @12V DC/each)

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

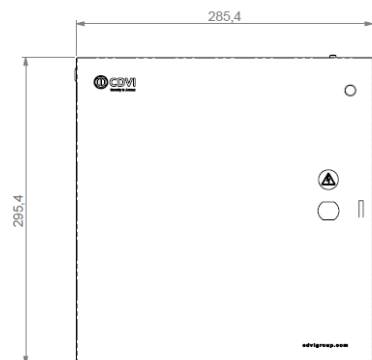


On-board Protection (all fuseless and auto-resume)

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)	