

# Datasheet

## A22K - 2 Door/4 Reader Controller

### Product Description

The ATRIUM A22K two 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)
- End-to-end AES encryption (when combined with KRYPTO readers)
- Embedded secure HTTPS (SSL/TLS) web server
- Includes free ATRIUM software & updates
- 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 Bluetooth readers)

 Certification

 DEEE

 Certification

 32°F to 120.2°F (0°C to 49°C)

## Communication

- On-board Ethernet:** 10/100 Base-T, Auto Sensing, 100 m (300 ft)  
**Local BUS:** RS485 communication between controller and expander

## Input Specifications

- Reader (Wiegand or RS485) Ports:** 2  
**Keypad (Wiegand or RS485) Ports:** 2  
**Multi-purpose inputs:** 2 (4 using zonedoubling)

## Output Specifications

- Lock outputs:** 2 (750 mA @12 VDC/each)  
**Relay outputs:** 2 Form C relays, 5A @250 VAC, 7A @125 VAC, 7A @30 VDC  
**Reader Outputs (Wiegand):** 6 x 50 mA Open collector output  
**Multi-purpose outputs:** 2 x 50 mA Open collector output

## On-board Protection

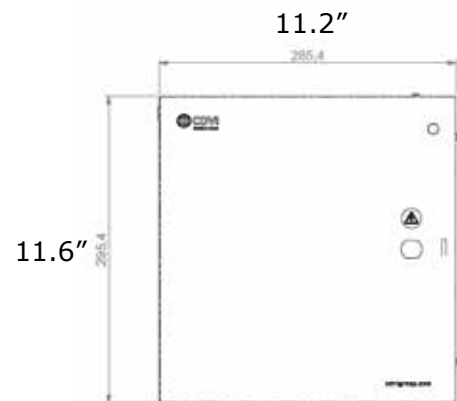
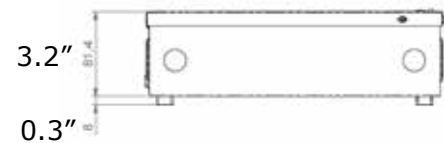
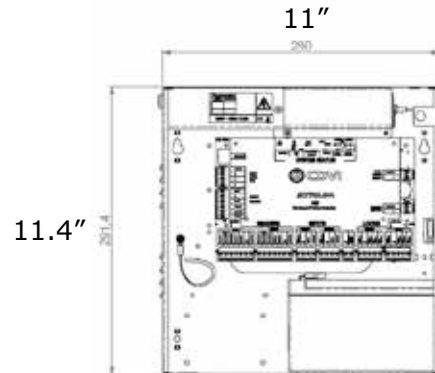
- LK1 & LK2** 12 VDC @ 750 mA  
**Auxiliary outputs:** 1A (12 VDC) fuseless protection  
**Battery:** Against reversal, short, current limited/monitored

## Electrical Specifications

- Power input:** 120 VAC to 240 VAC, 50/60Hz  
**Power output:** 24 VDC, 2.5 A  
**AC Terminal Fuse:** 250 VA, 2.5 A. Time Lag, Slow Blow  
**Power Loss Indicator:** Yes (DC IN)  
**Battery backup:** One 12 VDC, 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 (0.64mm) to 18AWG (1.02mm)	150m (500ft.)
Zone input	2 conductors, copper 22AWG (0.64mm)	22AWG (0.64mm)	600m (2000ft.)
Door strike	2 conductors, solid copper 18AWG (1.02mm)	18AWG (1.02mm)	150m (500ft.)
Power Supply	3 conductors, solid copper 18AWG (1.02mm)	14AWG (1.63mm)*	8m (25ft.)
Ethernet	CAT 5/5e	-	100m (300ft)
RS485 bus, Star or Daisy Chain (no BIAS/EOL required)	CAT 5/5e or 4 pairs	24AWG (0.51mm)	1220m (4000ft.)
	4 conductors, copper	26AWG (0.40mm) to 18AWG (1.02 mm)	



All the information contained within this document (pictures, drawings, features, dimensions, specifications), could be perceptibly different and can be changed without prior notice. Published: 02 August 2023. CDVI\_A22K\_DS\_01\_EN-FR\_LETTER\_C