

Datasheet

A22K - 2 Door/4 Reader IP 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.

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)

KRYPTO HIGH SECURITY SOLUTION **ATRIUM** ACCESS CONTROL



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



Certification



Certification



DEEE



Certification



-4°F to 158°F
(-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 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 (all fuseless and auto-resume)

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)	

