

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

RoHS

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

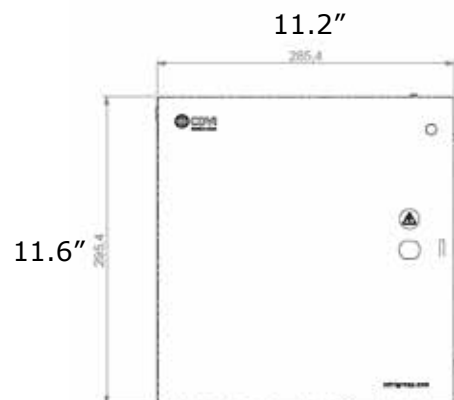
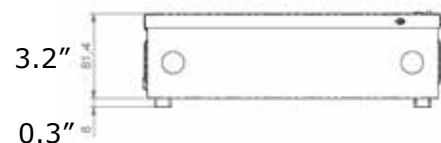
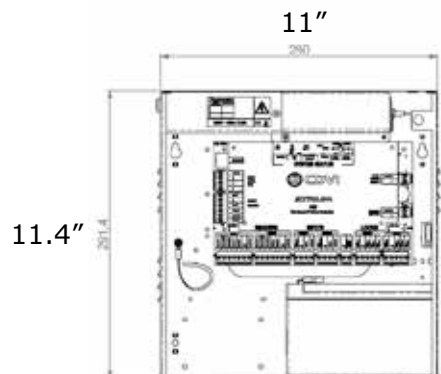
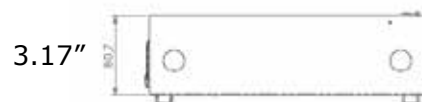
AC Terminal Fuse: 250 VA, 2.5 A. Time Lag, Slow Blow

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)	



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K1 - KRYPTO Mullion Reader

Product Description

The KRYPTO K1 is an economical reader for high-security systems. When combined with CDVI's EV2 credentials, it offers a user-friendly and secure solution. Utilizing the secure protocol of CDVI, the encryption keys guarantee end-to-end encryption between the credential, the reader and the A22K controller.

KRYPTO
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Key Features

- Reads 13.56 MHz MIFARE® Classic and DESFire® EV1/EV2 credentials
- Epoxy sealed
- OSDP-2 compatible
- Audible and visual feedback



Blue

Standby



Green

Access Granted



Red

Access Denied



Certification



DEEE

RoHS

Certification



IP65



IK10



-40°F to 158°F
(-40°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: 03 August 2023. CDVI_K1_DS_01_EN-FR_LETTER_C

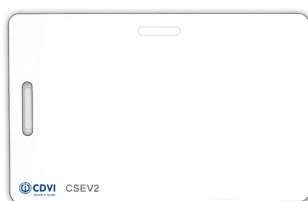
Product Specifications

Material:	Polycarbonate
Mounting:	Surface
Technology:	MIFARE® DESFire® EV2 13.56 MHz
Security level:	KRYPTO (default), OSDP2
Connection:	RS485
Read range:	Up to 2" (5 cm)
Weight:	4.1 oz, 118 g

Electrical Specifications

Power input:	12 VDC
Consumption:	200 mA

Accessories



CS-EV2

MIFARE® DESFire® EV2 card



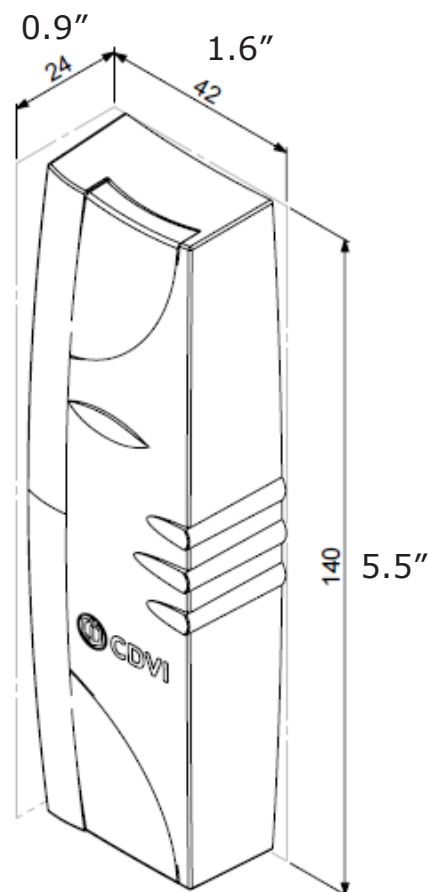
METALD

MIFARE® DESFire® EV2 tag



TAG-EV2

MIFARE® DESFire® EV2 tag



Datasheet

TAG-EV2 - MIFARE® DESFire® Epoxy Tag

Product Description

The TAG-EV2 is an elegant tag giving you a lightweight and discreet credential option. This model contains a MIFARE® DESFire® EV2 (4K) RFID chip, the ideal solution for any high-security access control projects. TAG-EV2 integrates seamlessly into our user-friendly KRYPTO high-security system.

CDVI offers a variety of access control credentials with different technologies (125 kHz proximity or MIFARE®). You'll find the ideal credentials to meet the needs of your installation. You can also customize our CDVI cards and tags with your own company logo (minimum order of 1,000 units).



Key Features

- Compatible with MIFARE® DESFire® and KRYPTO readers
- MIFARE® DESFire® EV2 4K (13.56 MHz)
- Available in packs of 25

 Certification

 DEEE

RoHS Certification



KRYPTO
HIGH SECURITY SOLUTION

Product Specifications

Material:	Epoxy
Technology:	MIFARE® DESFire® EV2
Frequency:	13.56 MHz
Security level:	High security
Weight:	0.1 oz, 4 g

