

KRYPTO

HIGH SECURITY CARD READERS

KRYPTO Mifare DESFire EV2 readers combined with CDVI EV2 credentials work right out of the box. No tedious and complicated programming required! Factory-programmed encryption keys ensure end-to-end encryption between the card, reader and A22K door controller. **KRYPTO – High Security Made Easy!**



K1

HIGH SECURITY CARD READER

- FULLY secure RS-485 connection (4 wires) with ATRIUM A22K module and CDVI DESFire EV2 credentials using authentication with diversified keys.
- Reads 13.56 MHz Mifare Classic and DESFire EV2
- OSDP compatible
- NFC Ready for mobile credentials
- 10 cm (4 in) read range
- Power requirements: 12VDC
- Current consumption : 200mA

ATRIUM

ACCESS CONTROL

High Security Kits

A22K1 2-Door High Security Reader Kit

- 1 x A22K controller
- 2 x K1 High Security Reader
- 1 x pack of 25 TAG-EV2 DESFire credentials



A22K1DS 2-Door Reader and Door Strike Kit

- 1 x A22K controller
- 2 x K1 High Security Reader
- 2 x Door Strike (ROFU 2400 Kit)
- 1 x pack of 25 TAG-EV2 DESFire credentials



ATRIUM

ACCESS CONTROL

High Security Made Easy

No tedious and complicated programming required!



www.cdvi.ca

ATRIUM

ACCESS CONTROL

A22K

2-DOOR / 4-READER FULLY ENCRYPTED IP CONTROLLER

Module Type Jumper Settings

Controller
(Default)



Module will act as a controller (IP connection)

Expander



Module will act as an expander (RS-485 connection)

Lock Output Jumper Settings

Lock Output= 0V
(Default)



Toggles to 12VDC during unlock time (Typical use: door strike)

Lock Output= 12V



Toggles to 0VDC during unlock time (Typical use: maglock)



IP Connection

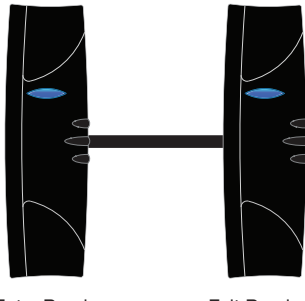
Use for A22K set as "Controller" ONLY.



Extra Inputs & Outputs
2 inputs (4 using zone doubling) and 2 outputs

K1

High Security Card Reader

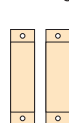


Entry Reader
(Blue wire NOT connected)

Exit Reader
(Blue wire connected to GND)

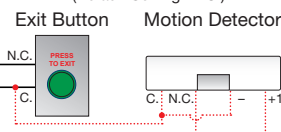
Door Contact

(Default Setting: N.C.)



REX

(Default Setting: N.C.)



Pre-assembled Universal Plugin Power Supply (120/240V)



Optional PoE+ module available (A22KPOE)

Recommended Battery:

12V, 7Ah
(UL/ULC: YUASA #NP7-12 or Europe: CDVI B7AH)



Intertek
4006885

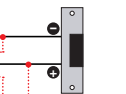
UL 294

The diagram shows the connection of the various devices for Door # 1.

Lock Outputs

Each lock output provides 750mA @ 12VDC

Door strike



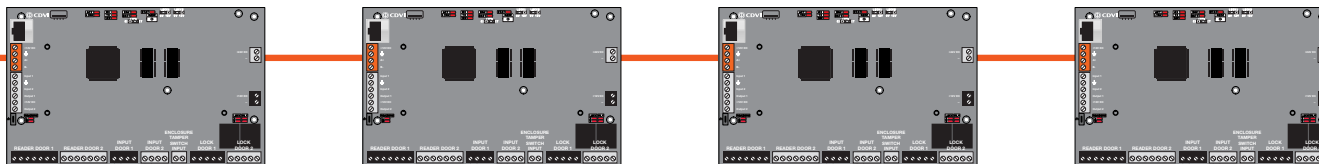
Maglock



A22K set as "Expanders"

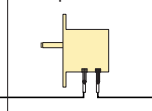
Connect up to four A22K set as "Expanders" on the RS485 bus, max. distance 1220m (4000 ft)

Do NOT connect A22K set as "Expander" to IP port.

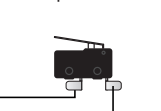


Enclosure Tamper Switch

Wall Tamper Switch



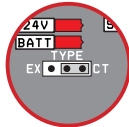
Door Tamper Switch



A22K 2 in 1 module, same product, two functions

#1: A22K set as "Controller"

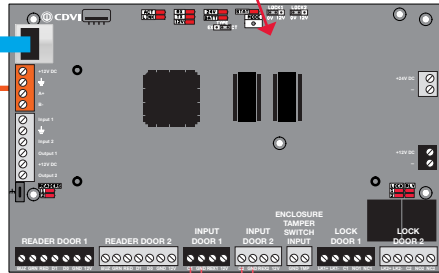
Module Jumper Setting
must be set at **"CT"**
(Default)



LAN or WAN

IP Port:
100m (300 ft) max.

RS485 Port:
1220m (4000 ft) max.



IP Port

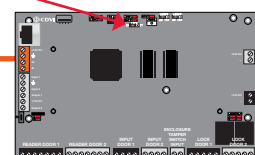
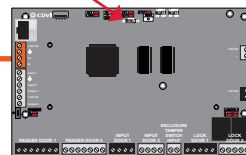
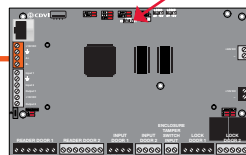
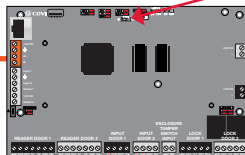
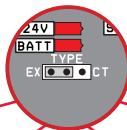
The IP port is used to connect an **A22K set as "Controller"** on a network (LAN or WAN). System administrators configure, manage and monitor the system using the ATRIUM software (PC only) or web browser (PC or Apple) connected on the network.

One controller must be configured as a **"Master"** in a multi-controller site. All other **A22K set as "Controller"** must be added as **"Sub-Controllers"** (max. one master + 49 sub-controllers per site). See the ATRIUM software manual on how to designate an A22K as a **"Master"** Controller and add **"Sub-Controllers"**.



#2: A22K set as "Expander"

Module Jumper Setting
must be set at **"EX"**



Do NOT connect an A22K set as an "Expander" on the IP port

RS485 BUS

Up to 4 **A22K set as "Expander"** can be connected on the RS485 port.

SYSTEM OVERVIEW

