

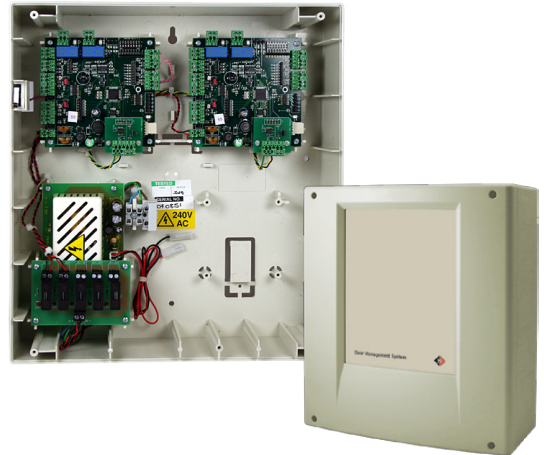
CRC22x Family of Online Door Controllers

Product Description

The CRC22x controller family is suitable for controlling access points such as doors and vehicle barriers by validating credentials such as cards, key fobs and vehicle tags. It forms part of an access management system linked to Norpass3 Access Control Management Software.

Supporting a comprehensive range of Clock & Data and Wiegand interface formats, each CRC22x module can be used to control access through one or two doors/barriers while supporting a wide range of managed access control features. There are several enclosure options available with up to four reader interfaces per enclosure plus an integral power supply unit.

Users can configure and manage all controllers remotely from Norpass3. Once in service, updates to the system such as card validity are automatically updated via the network connection. Records of all events taking place at the reader inputs are passed to Norpass3 over the network connection as they occur. The network interface to Norpass3 can be either RS485 or TCP/IP.



Features

CRC22x PCB Module

- ◆ 2 reader interfaces per module.
- ◆ CRC220 module controls 1 or 2 doors.
- ◆ 65,000 sequential card or 8,000 random card capacity
- ◆ Combined Card & PIN security option
- ◆ 'Buddy Mode' option (any 2 valid cards required for access)
- ◆ Supports both Wiegand and Clock & Data formats
- ◆ Door monitor input and door alarm output for each door
- ◆ Arming input for each reader
- ◆ Card capture/auxiliary output for each reader

- ◆ Free exit input for each door
- ◆ Tamper switch input and tamper alarm output
- ◆ Fire alarm input for unlocking all doors in case of an emergency
- ◆ RS485 or TCP/IP network connection options

Enclosure

- ◆ Integral 12V DC, 3A power supply
- ◆ Four individually fused 12V DC outputs for powering locking devices. These can be linked to a fire alarm so that it can directly release the connected locking devices in case of an emergency.
- ◆ Tamper switch

Specifications

Electrical

Supply Voltage:	Enclosures: 240V AC PCB/compact plastic housing: 12V DC
Current draw:	100 mA quiescent, 230 mA while reading (both readers)
Reader supply:	5V DC or 12V DC (100 mA max.)

Physical

Local settings:	DIP switches for setting node identity
Dimensions (mm):	PCB: 115 x 120 x 35 (H x W x D) Plastic enclosure: 325 x 300 x 135 (H x W x D) Metal enclosure: 330 x 300 x 105 (H x W x D)
Cable Termination:	Pluggable Screw terminal blocks

Environmental

Operating temp.:	0°C to 40°C
Storage temp.:	-20°C to 70°C
Relative humidity:	95% non-condensing

Capacity

Cards:	65,000 sequential or 8,000 random
Events:	1400 held in non-volatile memory

Data Communication

Mgmt Interface:	RS485 or TCP/IP depending upon model
-----------------	--------------------------------------

Inputs

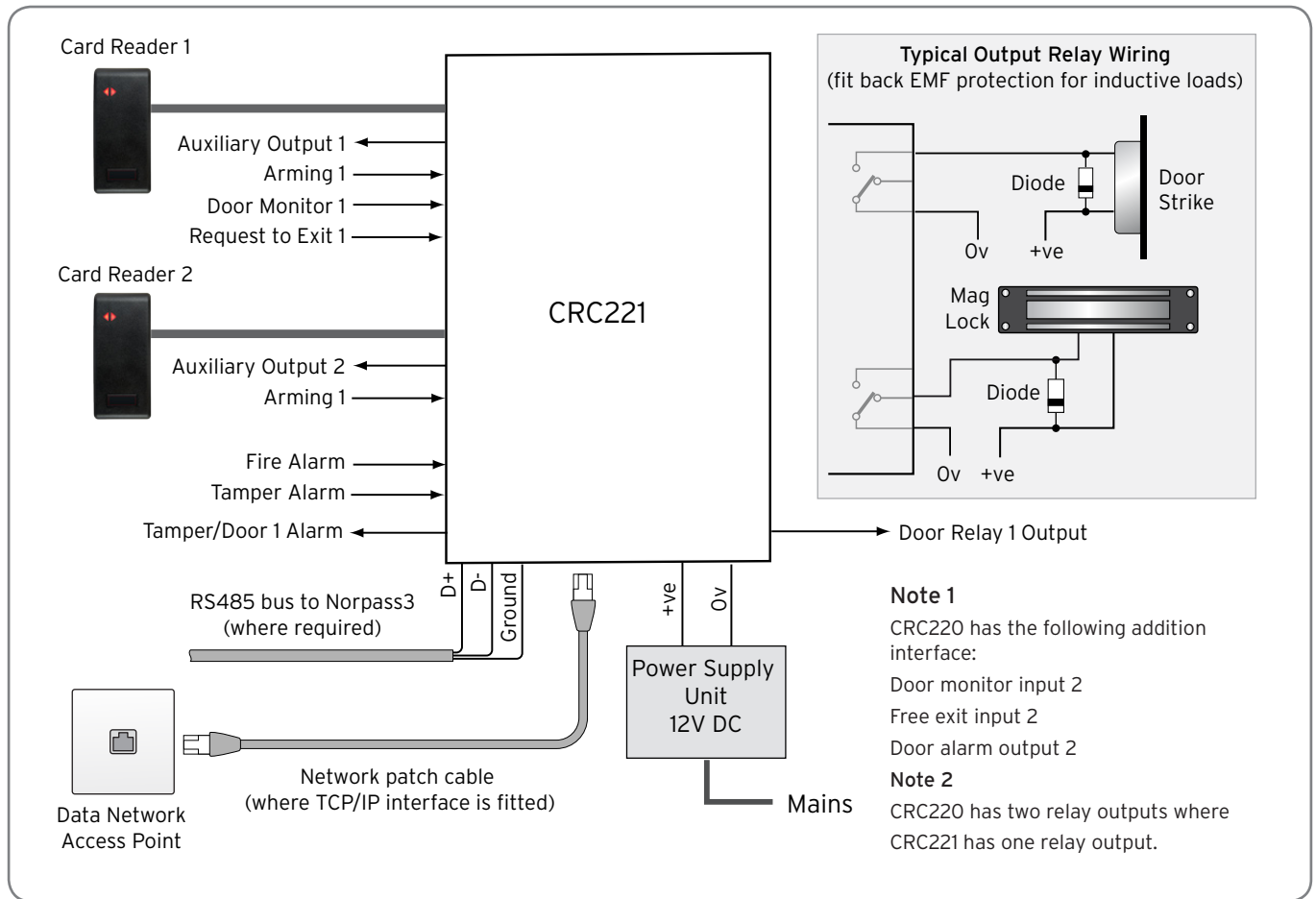
Readers:	2 x 5-wire reader interfaces for Clock & Data (ABA Track 2) & Wiegand formats
Arming:	2 independent, ground activated inputs. Open-circuit arming.
Door Open Monitor:	Ground activated input for monitoring door open status. CRC220: 2 independent inputs CRC221: 1 input
Request to Exit:	Ground activated input. CRC220: 2 independent inputs CRC221: 1 input
Tamper:	Ground activated input from tamper switch on housing (where applicable).
Fire Alarm:	Ground activated input from fire alarm relay.

Outputs

Lock Control:	2 independent relays (1 relay in CRC221) with change-over contacts rated at 2A @ 30V DC.
Auxiliary output:	2 independent open-collector outputs for auxiliary control such as card capture.
Tamper Alarm:	Open-collector output (300mA), activated when tamper alarm is active.
Door Alarms:	Door 1 alarm is shared with the tamper alarm output. On CR220, door 2 alarm output is a separate open-collector output (300mA).

CRC22x Card Reader Controller

Connection Details



Ordering Information

The CRC22x family is available in a choice of plastic or metal enclosures with integral PSU with fused 12V DC outputs. Enclosures are available for 1, 2 or 4 door capacities.

Two communication interface options are available; RS485 (using USB to RS485 converter) and TCP/IP. These can be combined as necessary in the same installation to maximise flexibility and keep costs down. A TCP/IP controller can also provide onward communications to further controllers using RS485, where necessary.

Use the ordering code guide below to order the required version and options:

