

## CRC220 Card Reader Controller

### PRODUCT DESCRIPTION

The CRC220 reader controller module is suitable for controlling access points such as doors and vehicle barriers by validating cards, key fobs, vehicle tags, PINs, etc. presented via 1 or 2 reader interfaces. The CRC220 forms part of an access management system linked to Norpass2 Access Control Management Software.

The CRC220 supports both Clock & Data and Wiegand interface formats. It can be used to control access via 2 doors/barriers and provide local anti-passback control. It also supports a range of managed access control features.

Users can configure and manage the CRC220 remotely from Norpass2. 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 readers controlled by the CRC220 are uploaded to Norpass2 over the network connection as the events occur. The network interface to Norpass2 can be either RS485 or TCP/IP.



### SPECIFICATIONS

#### Electrical

Supply Voltage:	12V DC
Current Requirement:	100 mA quiescent, 230 mA while reading (both readers)
Reader supply:	5V DC (100mA max.) or 12V DC (100 mA max.)

#### Physical

Local settings:	8 DIP switches for setting node identity, card numbering and interface type
Dimensions (mm):	Card: 115 x 120 x 35 (H x W x D) Compact plastic housing: 163 x 193 x 48 (H x W x D) Enclosure with integral PSU: 325 x 300 x 135 (H x W x D)
Cable Termination:	Pluggable Screw terminal blocks

#### Environmental

Operating Temperature:	0°C to 40°C
Storage temperature:	-20°C to 70°C
Relative Humidity:	95% non-condensing

#### Capacity

Cards:	20,000 sequential or 6,550 random (selected using DIP switch)
Events:	1700

#### Inputs

Readers:	2 x 5-wire reader interfaces for Clock & Data (ABA Track 2) & Wiegand formats (selected using DIP switch)
Arming:	2 independent, ground activated inputs. Open-circuit arming.
Door Open Monitor:	2 independent, ground activated inputs. Monitor door open status for system alarm reporting.
Request to Exit:	2 independent, ground activated inputs, each operating the associated latch relay.
Tamper:	Ground activated input from tamper switch on housing (where applicable).

#### Outputs

Latch Relays:	2 independent latch relays with change-over contacts rated at 2A at 30V DC.
Auxiliary output:	2 independent open-collector outputs for auxiliary control such as card capture.

#### Data Communication

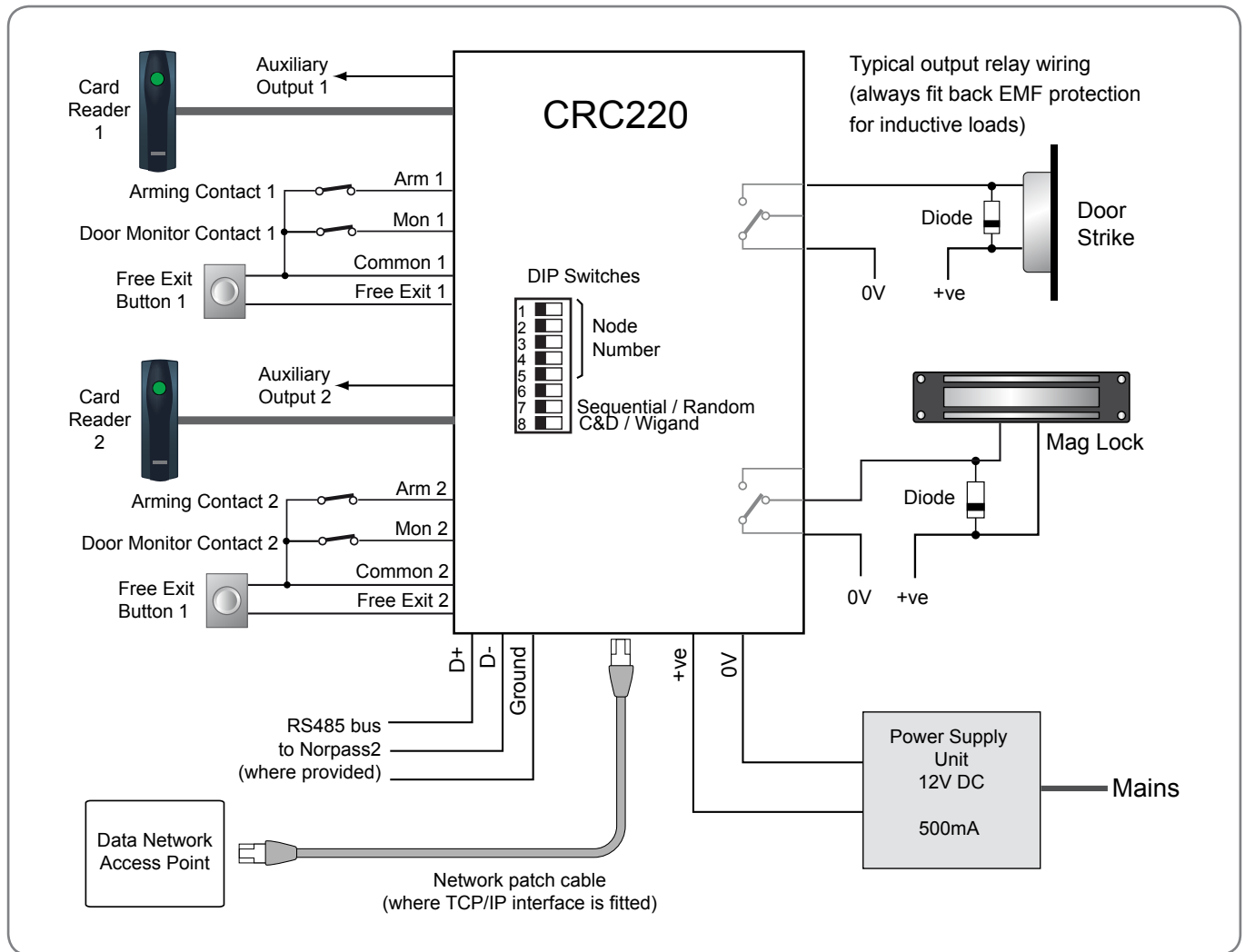
Management Interface:	RS485 or TCP/IP depending upon model
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#### Cabling

CRC220 to reader:	Belden 9536 or equivalent (6-core, 24 AWG stranded, overall foil shield) - 100m maximum length
RS485 comm's:	Belden 9729 or equivalent ( 2-pair, 24 AWG stranded, twisted Pairs, individually foil shielded) - 1,200m maximum overall length
TCP/IP:	Standard 10baseT/100baseT patch cable (RJ45 connector) to network access point

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## Connection Details



## Available Compatible Readers/Input Devices

- EM2100** 125kHz proximity reader range
- DP2200** DualPROX® proximity reader range
- RH301** Magnetic stripe card reader
- MRC310** Card capture reader
- ASR6XX** HID Indala proximity card reader range
- 600X** HID Proxpoint® plus proximity reader range

- RXXX** HID iClass smart card reader range
- Access7C** Multi-technology smart card readers
- RH305** Barcode reader
- LMB60XX** Hyper X RFID reader range
- RC-W** RF remote control receiver

## Ordering Information

The CRC220 is available in a range of housings with or without an integral power supply and with a choice of network interfaces.

The two main products are:

- CRC220-48** CRC220 PCB with RS485 network interface
- CRC220-TCP** CRC220 PCB with TCP/IP network interface

To order the unit within a compact plastic housing, append 'PLA' to the code (e.g. CRC220-48-PLA). To order the unit within a plastic enclosure with integral 2A 12V PSU, append 'ENC' to the code (e.g. CRC220-48-ENC).

Special versions of the CRC220 are available with extended card capacity and/or with 2 PCBs (4-door control) per enclosure. Please contact our sales department for further details.