NanoQuest Compact Standalone Access Control System

PRODUCT DESCRIPTION

The NanoQuest is a compact standalone proximity card reader and access controller. The slender housing design suits most architectural and interior design settings, while the robust construction allows it to be used in most working environments. With both the access control electronics and the 125kHz proximity reader technology contained in a single compact housing, it is easy to install and operate.

A NanoQuest unit can control access through a single door for up to 500 authorised users. In addition to providing access control, the NanoQuest can be used as a secure method of controlling devices such as intruder alarm panels, lighting and heating.

Features include free exit, arming, alarm output, door monitoring and auxiliary input/output. The configuration of features and the addition/removal of User cards are simple operations using a 'Master' card. Special 'Auxiliary' cards can also be added to control auxiliary devices.

The NanoQuest can also output card data in 26-bit Wiegand format so that it can be used as a standard reader connected to an external controller in any future migration to a larger system.

Nortech takes a very flexible approach to supplying cards and fobs for the NanoQuest. For small numbers of users where only simple administration is required, cards and fobs can be purchased as necessary, and individually enrolled into the NanoQuest when they are needed.

For installations with many users, we supply special card packs in filing wallets, where each card comes with duplicate 'administration' card. A batch enrolment card is also supplied within the pack so that the whole batch of cards can be enabled in a single procedure. If a card is lost or stolen, then the corresponding administration card can be used to remove that card from the NanoQuest.

Key fobs are also available with corresponding batch enrolment card and administration cards.

SPECIFICATIONS

Electrical

Supply Voltage:	9V DC to 16V DC
Current Requirement:	70 mA maximum

Physical

Dimensions (mm):	111 x 49 x 19 (H x W x D)
Colour:	Charcoal Grey (standard version)
Material:	ABS polycarbonate
Rating:	IP65 - suitable for outdoor and indoor use

Environmental

Operating Temperature:	-20°C to 50°C Ambient

Outputs

Strike Relay:	Change-over contacts rated at 1A at 30V DC. Programmable strike time 0.5 to 10 seconds or latching.
Auxiliary Output:	Open-collector output for auxiliary control (latch or pulse options)
Alarm:	Open-collector output for external alarm (latch or pulse options)
Wiegand Data:	26-bit Wiegand data for use with external controller

Inputs

Free Exit:	Clean contact, ground to activate
Auxiliary/Arming:	Clean contact, ground to disable, open contact to enable
Door Monitor:	Clean contact, ground to indicate door closed (if activated)

Card Types

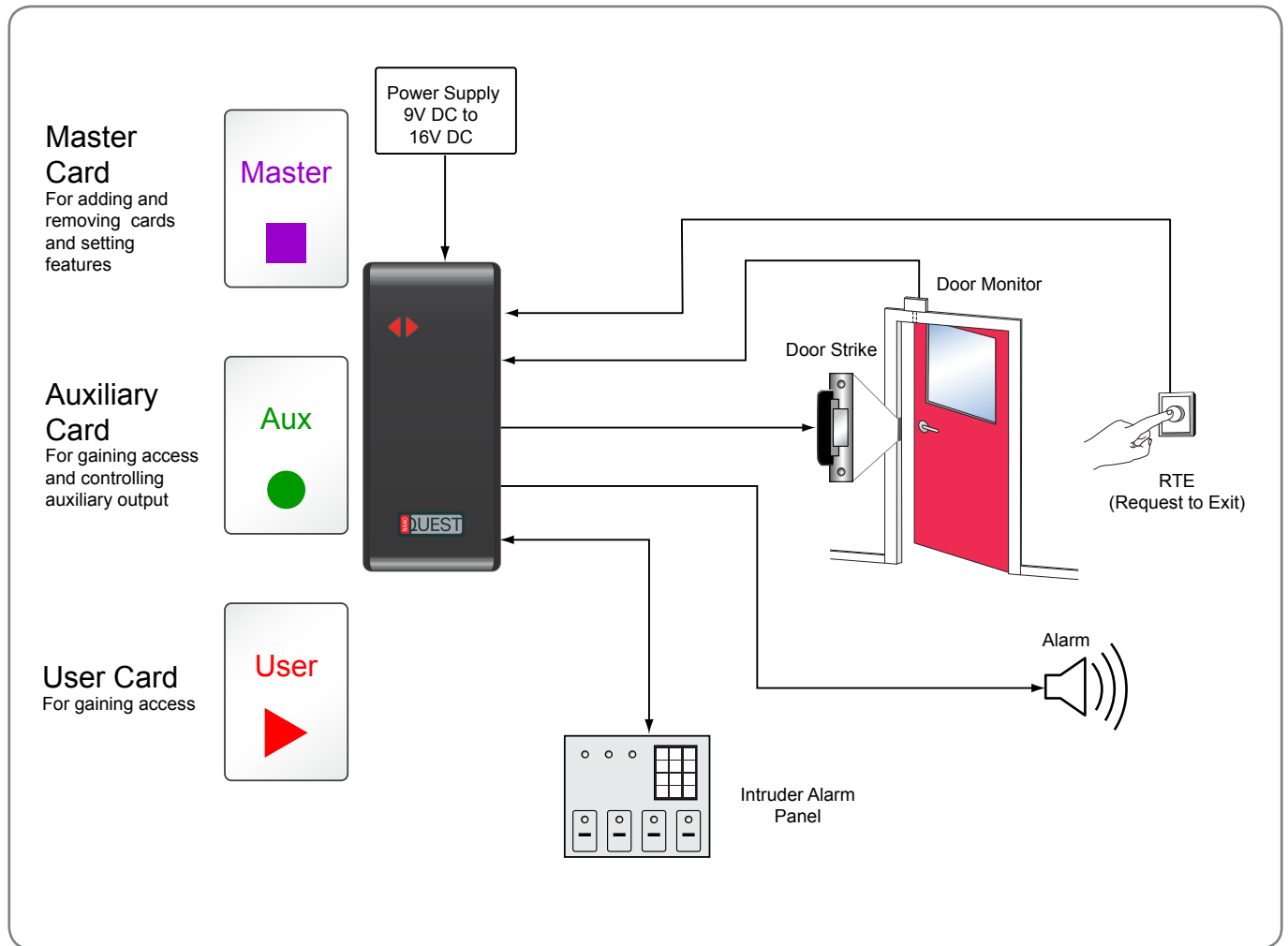|	
Master Card:	Used for Configuration and adding/removing User cards
User Card or Fob:	Used to gain access to restricted area
Auxiliary Card or fob:	Used to gain access to restricted area and to activate auxiliary devices

Connection

Cable:	15 conductors. 300mm long as standard - 3m option available on request

Operational

Reading Range:	Up to 80mm depending upon the type of card or token
Buzzer:	On/Off selectable
Indicators:	Dual colour LED (red/green)

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Connection Details

Master Card
For adding and removing cards and setting features

Master

Auxiliary Card
For gaining access and controlling auxiliary output

Aux

User Card
For gaining access

User

Power Supply 9V DC to 16V DC

Door Monitor

Door Strike

RTE (Request to Exit)

Alarm

Intruder Alarm Panel

Ordering Information

N-QUEST-01	NanoQuest standalone proximity card reader/controller plus 2 Master cards
NP-CARD-PK-00	Pack of 10 proximity cards for use with NanoQuest (lost cards can't be individually deleted)
NP-CARD-PK-01	Pack of 10 proximity cards in filing wallet with duplicate 'administration' cards and a card marker pen
NP-CARD-PK-02	Pack of 25 proximity cards in filing wallet with duplicate 'administration' cards and a card marker pen
NP-CARD-PK-03	Pack of 40 proximity cards in filing wallet with duplicate 'administration' cards and a card marker pen
NP-FOB-PK-00	Pack of 10 proximity fobs for use with NanoQuest
NP-FOB-PK-01	Pack of 10 fobs with duplicate 'administration' cards in filing wallet with marker pen
NP-FOB-PK-02	Pack of 25 fobs with duplicate 'administration' cards in filing wallet with marker pen
NP-FOB-PK-03	Pack of 40 fobs with duplicate 'administration' cards in filing wallet with marker pen

Note: Where it is not necessary to have batch enrolment and duplicate cards, standard Nortech 'NP' cards and fobs can be purchased for use with the NanoQuest.