

## NanoQuest Compact Standalone Access Control System

### Product Description

The NanoQuest is a compact standalone proximity card reader and access controller that is easy to install and operate. The compact device houses both the access control electronics and the 125kHz proximity reader. Its slender design suits most architectural and interior design settings, while the robust construction allows it to be used in most working environments. A NanoQuest unit controls access through a single door for up to 500 authorised users, and can also be used as a secure method of controlling devices such as intruder alarm panels, lighting and heating.

The configuration of its many 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 unit can also output card data in RS232 format when in 'NanoQuest' mode, and in both RS232 and 26-bit Wiegand format when in 'Reader' mode so that it can be used as a standard card reader as part of a future migration to a larger system.

Nortech offers a flexible range of card and fob packs. Cards and fobs can be purchased as necessary, and individually enrolled into the NanoQuest when they are needed. For installations with many users, card packs are supplied in filing wallets, where each card comes with a duplicate 'administration' card. A batch enrolment card is also supplied to enable the enrolment of a whole batch of cards 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 a corresponding batch enrolment card and administration cards.

### Features

- ▶ Elegant, compact housing
- ▶ Supports up to 500 users
- ▶ Free Exit input
- ▶ Can be armed by an external device
- ▶ Door monitoring and alarm output to external alarm device
- ▶ Auxiliary control of external device
- ▶ Batch card enrolment
- ▶ Administration (shadow) card option
- ▶ Can be used as a standard reader in future upgrade

### Specifications

#### Electrical

Supply Voltage: 9V DC to 16V DC  
Current Reqt: 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 Temp: -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, for auxiliary control (latch or pulse options)  
Alarm: Open-collector, for external alarm (latch or pulse options)  
Wiegand Data: 26-bit Wiegand data for use with external controller  
Serial Data: RS232 (10 digits plus CR) for output to external system

#### 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  
Aux. Card or fob: Used to gain access to restricted area and to activate auxiliary devices

#### Connection

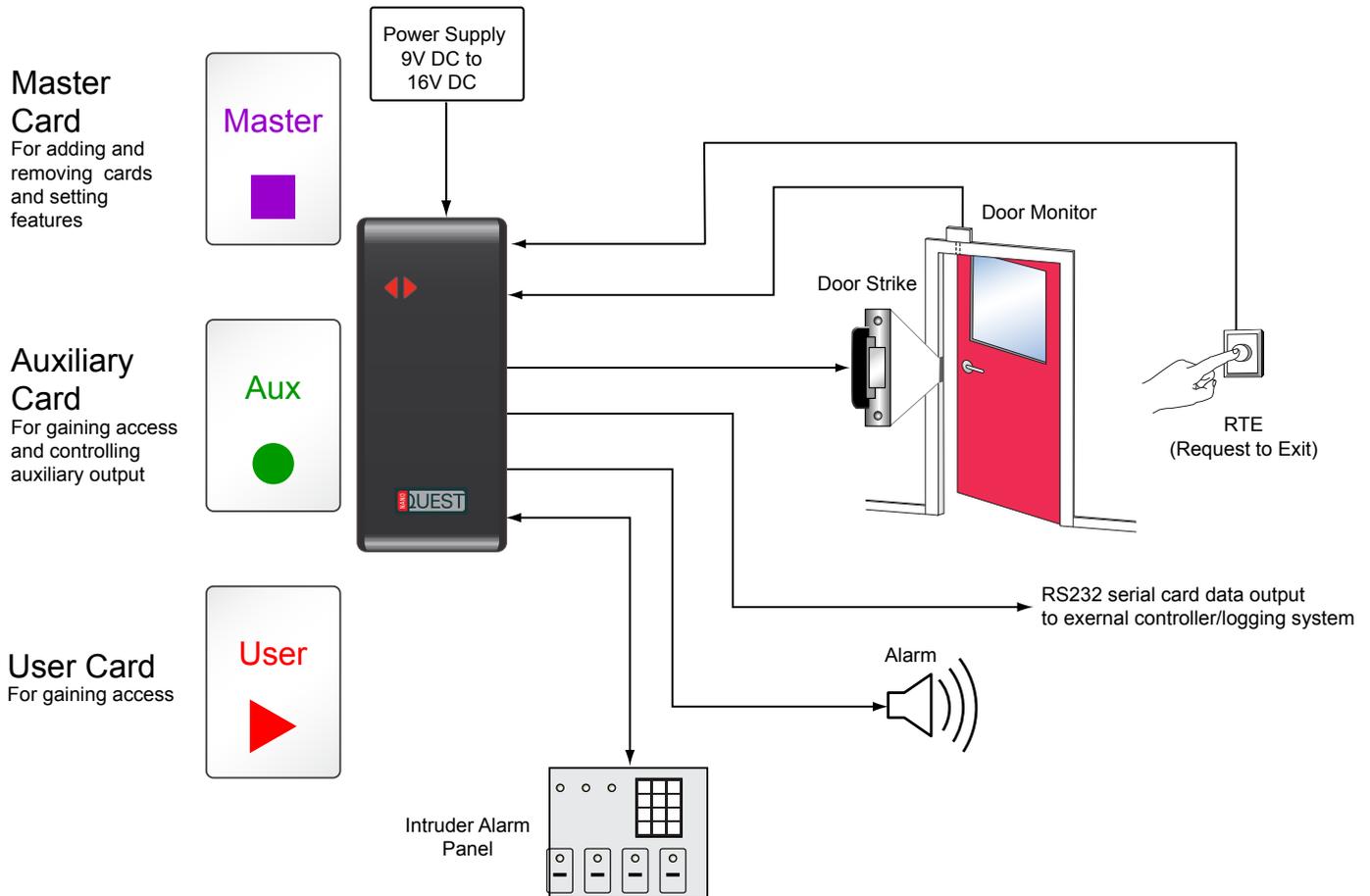
Cable: 15 conductors. 300mm long as standard - 3m option available on request

#### 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



### Ordering Information

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