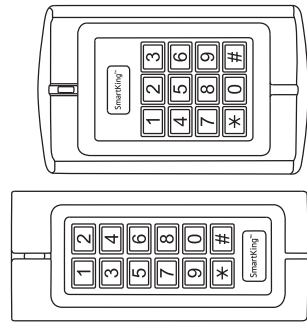


## PA240001/PA240002 Access Control



PA240001 PA240002

User Manual

### 1. Introduction

The PA240001/PA240002 is a standalone access control, they use the latest microprocessor technology to operate door strikes and security systems that require a momentary (timed) or latching dry contact closure.

All programming is done through the keypad. Codes and operating parameters are stored within the microprocessor and can not be lost due to power failure.

The PA240001/PA240002 can store 1000 users with card and 4-6 digit password codes. It has one relay output with 3 Amp changeover contacts.

### 2. Specifications

#### 1. Programmable Functions

- Relay momentary
- Relay strike time
- Change Codes 1 master, 1000 users

#### 2. Programmable Timers

- Door relay time 1-99 seconds
- Alarm time 1-3 minutes

#### 3. Pulse Mode

Toggle Mode

#### 4. 12V DC

- Metal shell keypad
- 12 keys with backlight

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### 5. Wiring Connections

- Electric lock
- External Push Switch
- Magnetic Contacts
- Alarm

### 3. Important Information

If holes are to be drilled before mounting onto a wall, check for hidden cables and/or pipes before drilling. Use safety goggles when drilling or hammering in cable clips. Every effort has been made to provide accurate information, however slight variations can occur. We also reserve the right to make changes for product improvement at any time.

NOTE: please read these instructions carefully before attempting to install the PA240001/PA240002.

### Internal Interface Circuit

- Alarm output interface (See Figure 1)
- Electric lock interface (See Figure 2)

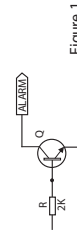


Figure 1

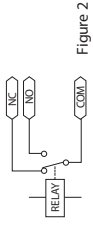


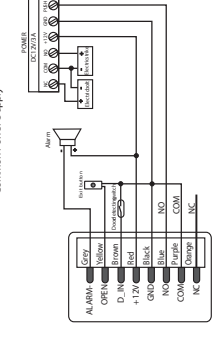
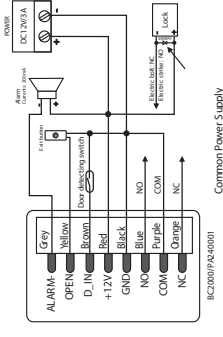
Figure 2

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### Terminal Wire Connector Function

1 ALARM	Grey	Alarm Switched negative when active
2 OPEN	Yellow	To Door EXT Request Button Then Negative
3 ID IN	Brown	To Door Contact Then To Negative
4 12V	Red	(+) 12VDC Positive Regulated Power Input
5 GND	Black	(-) Negative Regulated Power Input
6 INO	Blue	Door Strike Relay NO
7 COM	Purple	Door Strike Relay Com
8 NC	Orange	Door Strike Relay NC

Do not plug the power supply or transformer into the mains until all wiring has been completed and the front cover secured.



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### 4. Mounting

- Attach the rear plate to a single or double gang electrical box or secure to the wall firmly with at least three flat head screws.
- When wiring has been completed, attach the front cover to the rear plate.

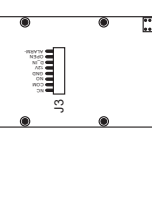


Figure 3

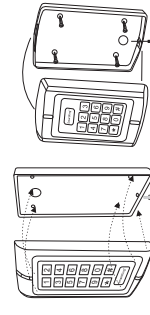


Figure 4

### 5. Wiring

- Unplug the cable harness and connect the necessary cables (See Figure 3).
- Tap any wires that are unused.
- Plug in the cable harness on the PCB (See Figure 3)
- attach the front cover (See Figure 4)

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To delete a card user by user ID. This option can be used when a user has lost their card	[2] [User ID] [E]
To set a card and PIN user in card and PIN mode ([3] [1] [E])	[2] [User ID] [E]
Add the card as for a card user Press [E] to exit from the programming mode Then allocate the card a PIN as follows: [E] [Read Card] [1234] [PIN] [E] [PIN] [E]	[E] [Read Card] [00] [PIN] [New PIN] [E]
To change a PIN in card and PIN mode (Method 1) Note that this is done outside programming mode so the user can undertake this themselves	[2] [User ID] [E]
To change a PIN in card and PIN mode (Method 2) Note that this is done outside programming mode so the user can undertake this themselves	[E] [Old number] [E] [New PIN] [E] [New PIN] [E]
To delete a card and PIN user just delete the card	[2] [User ID] [E]
To set a card user in card mode ([3] [0] [E])	[2] [User ID] [E]
To Add and Delete a card user The operating is the same as adding and deleting a card user in [3] [2] [E]	[2] [User ID] [E]
To delete All Users	[2] [0000] [E]
To unlock the door so use with care)	[E] [Read Card] [E] [Read Card] [E]
To unlock the door For a PIN user	[E] [Read Card] [E] [Read Card] [E]
To unlock the door For a card and PIN User	[E] [Read Card] [E] [Read Card] [E]

### 6.2. Relay Setting (Pulse mode, Toggle mode)

Pulse mode (Factory default)	[4] [1-99] [E]
Pulse mode - Door relay time setting	The door relay time is between 1-99 seconds, the factory default setting is 5 seconds. 1 second actually represents 50 ms. Note: the relay will operate, for the pre-set relay pulse time.

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### 8. Resetting To Factory Default Setting

To reset to factory default, power off, press [E] hold it and power on, release it until hear three beeps (two short, one long). means reset to factory default successfully.  
Remarks: Reset to factory default, the user's information is still retained.

### 9. Technical Specification

Supply Voltage	12V DC
Current Consumption	<2.0mA
Door Relay	3A
Alarm output load	3A
Memory	Non volatile EPROM memory
Codes	1000 Users
Keypad	12 keys, 3 LED status indicators
Card Types	EM or EM compatible
Induction Distance	2-5cm
Wiring Connections	Electric lock Remote Request to Exit Door open detection External Alarm Negative loop, normally closed
Tamper Protection	Metal
Keypad Housing	-40 to 60 (-40°F to 140°F)
Operating Temperature	L1: 28 mmx W82 mmx H28mm (PA240002) L1: 35 mmx W88 mmx H26 mm (PA240001)
Dimensions	
Weight	500g

### 10. Package Listing

Name	Model no.	Qty	Remark
Digital Keypad	PA240001/PA240002	1	
User Manual	PA240001/PA240002	1	
Diode	1N4004	1	
Wall Fixing Plug	Ø 6mmx 27 mm	4	Used for fixing
Self Tapping Screws	Ø 4mmx 27 mm	4	Used for fixing

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### 6. Detailed Programming Guide

#### 6.1. User Settings

To enter the programming mode	[E] [Master code] [E]
To exit from the programming mode	[E]
Note that to undertake the following programming the master user must be logged in	
To change the master code	[0] [New code] [E] [New code] [E]
The master code is any 4-6 digits	
Setting the working mode: Set valid card only users Set valid card and PIN users Set valid card or PIN users	[3] [0] [E] by card only [3] [1] [E] by card and PIN together [3] [2] [E] by either card or PIN (default)
To set a user in either card or PIN mode ([3] [2] [E]) (Default setting)	[1] [User ID number] [E] [PIN] [E]
The ID number is any number between 000-999. The PIN is any 4-6 digits between 0000-999999 with the exception of 1234 which is reserved. Users can be added continuously without exiting from programming mode as follows: [1] [User ID no.] [E] [PIN] [E] [User ID no.] [E] [PIN] [E]	
To delete a PIN user	[2] [User ID number] [E]
Users can be deleted continuously without exiting programming mode	
To change the PIN of a PIN user (This step must be done out of programming mode)	[0] [Old number] [E] [New PIN] [E] [New PIN] [E]
To add a card user (Method 1) This is the fastest way to enter cards using ID number auto generation.	[1] [Read Card] [E]
Cards can be added continuously without exiting programming mode	
To add a card user (Method 2) This is the alternative way to enter cards using User ID Allocation. In this method a user ID is allocated to a card. Only one user ID can be allocated to a single card.	[1] [ID number] [E] [Read Card] [E]
To delete a card user by card number. Note users can be deleted continuously without exiting programming mode	[2] [Read Card] [E]

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### PA240001/PA240002 Quick Reference Programming Guide

To enter the programming mode	[E] [Master code] [E]
To exit from the programming mode	[E]
Note that to undertake the following programming the master user must be logged in	
To change the master code	[0] [New code] [E] [New code] [E]
The master code can be 4-6 digits long	
To add a PIN user	[1] [User ID number] [E] [PIN] [E]
The ID number is any number between 000 - 999. The PIN is any 4-6 digits between 0000 - 999999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode	
To add a card user	[1] [Read Card] [E]
Cards can be added continuously without exiting from programming mode	
To delete a PIN or a card user	[2] [User ID number] [E] for a PIN user or [2] [Read Card] [E] for a card user
Users can be deleted continuously without exiting from programming mode	
To unlock the door	Enter the [PIN] then press [E]
To unlock the door for a PIN user	Press the [E]
To unlock the door for a card user	Press the [E]