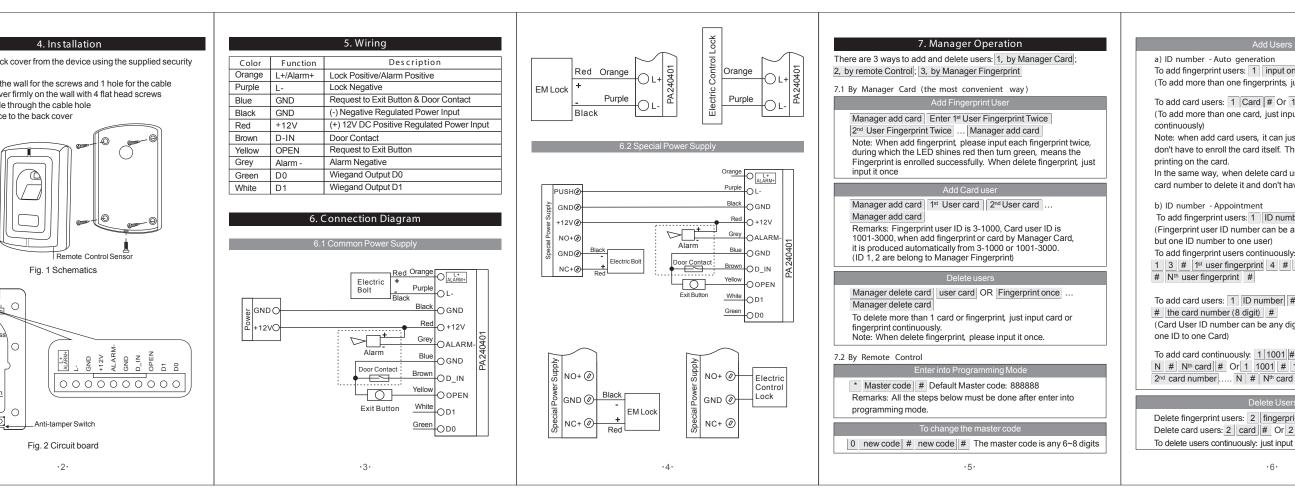
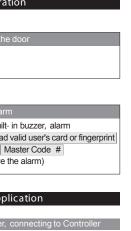
	Contents	1. Packing	g List		
SmartKing™	Contents	Descriptions	Qty	Remark	> Remove the back co
	1 Decking Link	Fingerprint Device-PA240401	1		screwdriver
	1. Packing List	User Manual	1		 Drill 4 holes on the w Fix the back cover fit
pport@smartking.com	2. Description1	Infrared Remote Control Keypad	1		 Thread the cable thr
	3. Features1 4. Installation 2	Manager Card	2	Manager Add Card & Manager Delete Card	> Attach the device to
vw.smartking.com	4. Installation 2	Security Screws	1	Φ 3 mm x 7.5 mm	
240401	6. Connection Diagram3	Screw Driver	1		
	6.1 Common Power Supply3	Self Tapping Screws	4	Φ 4mm×25mm	I F
	6.2 Special Power Supply4	Pastern Stopper	4	Φ 6mm×25mm	
	7. Manager Operation5	Diode	1	IN4004	
	7.1 By Manager Card (the most convenient way) 5				
	7.1 By Manager Card (the most convenient way) 5 7.2 By Remote Control 5	2. Descri	otion		
	7.2 By Kendle Control	PA240401 is the performance have grea	tly improved	1.	
	7.4 Delete all the Users8	The product uses the precise electron circuit and good productive technology, which is the metal structure fingerprint & card access machine. It is widely used in business affairs organization, office, factory, housing			
	7.5 Setting - Facility Code 8				
	7.6 Setting - Lock style and door relay time 8				
	7.7 Setting - Door open detection 9	district etc.			
	7.8 Setting- Security status 9	This product's programming is done by the infrared remote control keypad or manager fingerprint, support fingerprint or EM 125 KHz card, easy to install and programming.			
	7.9 Setting - Two devices interlocked 9				
	7.10 Setting - Alarm signal output time9				
	8. User Operation10	3. Featu	res		
	8.1 User to Release the Door10				Wiring Hamess
	8.2 Remove Alarm 10	 Strong zinc alloy electroplated anti-va Infrared remote control & master card 			
	9. Advanced Application10	 > 3000 users, includes 1000 fingerprint users and 2000 card users 			
	9.1 PA240401 works as slave reader, connecting to Controller 10	> Card interface: EM 125KHz card			
PA240401	9.2 PA240401 works as Controller, connecting slave reader 11	> Wiegand 26 input & output			_ Reset Button
	9.3 Two PA240401 interconnected-single door11	> Standalone or Wiegand reader mode			
ngerprint & RFID Access Control	9.4 Two PA240401 interconnected & interlocked-two doors 12	> Adjustable door output time, alarm tim		en time	
	10. Reset to Factory Default 13	 > Anti-magnetic & lock output current sl > 2pcs PA240401 can be interconnected 		240401 can be	
User Manual	11. Sound and Light Indication13	interlocked	.u, 1900 i Az		
	12. Technical Specification14	> Red, yellow and green LED display th	e working s	tatus	
		•1•			

If Delete Users by ID 2 user ID # Remarks: When delete users, the Master can just delete its ID number and don't have to input fingerprint or card. It is the good option to delete if the users were left or cards lost. To Save and Exit from the programming mode *	To Delete User To delete Fingerprint users Manager delete fingerprint 1 st user fingerprint 2 nd user fingerprint N th user fingerprint Manager delete fingerprint To delete card users Manager delete fingerprint Card 1 Manager delete fingerprint Card 1 Card 2	 7.7 Setting - Door open detection Setting - Door open detection Master Code # 6 0 # to disable this function (factory default setting) 6 1 # to enable this function When enable this function: a) If open the door normally, but not closed after 1 minute, the inside Buzzer will alarm automatically, the alarm will be off itself 	8. Us er Opera 8.1 User to release the door User to release th Card user: <u>Read card</u> Fingerprint user: <u>Input fingerprint</u> 8.2 Remove Alarm
7.3 By Manager Fingerprint Enter into Programming Mode Master Code # Add Manager Fingerprint	7.4 Delete All the Users Delete All the Users Master Code # 20000 # Note: This will delete all fingerprints, cards, including Manager Fingerprint but except Manager Card, before this operation it is	after 1 minute b) If the door was opened force, or the door was not opened in 120 seconds after lock was released, the inside Buzzer and outside Siren will both alarm. 7.8 Setting - Security Status Setting - Security Status	Remove Ala When the device is in alarm (from bui equipment outside), to remove it: Rea or Manager Fingerprints or cards or (Any of the method above can remove
1 1 # input fingerprint twice 2 # input another fingerprint twice * ID number 1: Manager add fingerprint ID number 1: Manager add fingerprint ID number 1: Manager add fingerprint ID number 2: Manager add fingerprint, it is to add the users The 1st fingerprint: Manager add fingerprint, it is to add the users The 2 nd fingerprint: Manager add fingerprint, it is to delete users To Add User Fingerprint: Manager add fingerprint input user fingerprint twice Repeat Manager add fingerprint	suggested to make sure the data is un-useful. 7.5 Setting - Facility Code Setting - Facility Code 3 [0~255] # This operation might be required when PA240401is acting as Wiegand reader and connecting to multi-door controller.	Master Code # Normal status: 7 0 # (Factory default setting) Lock on status: 7 1 # In 10 minutes, if there's 10 times invalid card or wrong Password, the device will lock on for 10 minutes. Alarm status: 7 2 # In 10 minutes, if there's 10 times invalid card or wrong Password, the device will alarm.	9. Advanced Ap 9.1 PA240401 works as slave reade PA240401 supports Wiegand output, it ca which support Wiegand 26 input as its sla diagram is as Figure 1
Card: Manager add fingerprint Card Repeat Manager add fingerprint To add users continuously Fingerprint manager add fingerprint 1st user fingerprint fingerprint Nth User Fingerprint Manager add fingerprint Card: Manager add fingerprint Card 1 Card 2	 7.6 Setting - Lock style and door relay time Setting - Lock style and door relay time Fail secure (unlock when power on): Master Code # 4 0~99 # Fail safe (unlock when power off): Master Code # 5 0~99 # 	7.9 Setting - Two devices interlocked Setting - Two devices interlocked * Master Code # 8 0 # to disable this function (factory default setting) 8 1 # to enable this function	Power R 2 2 0 C 2
Repeat Manager add fingerprint	Remarks: In programming mode, press 4 is to choose Fail secure lock, 0-99 is to set door relay time 0-99 seconds; press 5 is to choose Fail safe lock, 0-99 is to set door relay time 0-99 seconds. (Factory default setting is Fail safe lock, relay time 5 seconds.) -8-	7.10 Setting - Alarm signal output time Setting - Alarm signal output time * Master Code # 9 0~3 # Alarm time is 0- 3 minutes for option, factory default is 1 minute. •9•	GND 0 +12V 0 D1 0 White D0 0 Green -10-





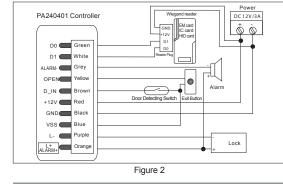
an be connected to the controller we reader, the connection

Oranger O L+ ALARM+ Purple Blue OGND Black OGND Red O+12V Brown OD_IN Figure 1 Grey OALARM White OD1 Green OD0

If the controller is PC connection, the users ID can be shown in the software. a) Card user, its ID is the same as the card number; b) Fingerprint user, its ID is the combination of device ID and fingerprint ID

The device ID is set as below: * Master Code # 3 device ID # Note: Device ID can be any digit of 0- 255 For example: device ID was set 255, fingerprint ID is 3, then its ID to the controller is 255 00003.

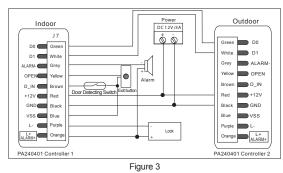
PA240401 supports Wiegand input, any card reader which supports Wiegand 26 interface can connect to it as its slave reader, no matter it is ID card or IC card. The connection is showed as Figure 2. When add cards, it is required to do it at the slave reader, but not controller (except EM card reader, which can be added on either reader or controller)



Wiegand output, Wiegand input: The connection is showed as Figure 3. One PA240401 installed inside the door, the other outside the door, two devices interconnect. Either device acts as the controller and reader at the same time. It has below feature:

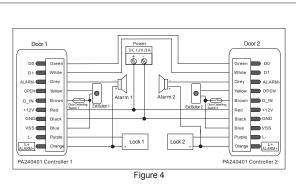
9.3.1 Users can be enrolled on either of the device. The information of the two devices can be communicated. In this situation the user capacity for one door can be up to 6000. Each user can use fingerprint or Code for access

9.3.2 The setting of the two PA240401 must be the same. If the master Code was set different, the user enrolled in the outdoor unit can't access from outside.



9.4 Two c The connection is showed as Figure 4, for the two doors, each door install one controller and one lock related. The interlocked function will go when either door is opened, the other door is locked forced, only close this door, the other door can be opened.

The interlocked function is mainly using in bank, prison, and other places where require higher security. Two doors are installed for one access. The user enters fingerprint or card on controller 1, the door 1 will open, the user enters, and close door 1, only after that, the user can open the second door by entering fingerprint or card on second controller.



10. Reset to Factory Default

Power off, press the RESET key (SW14) on the PCB, hold it and power on, release it until hear two short beeps the LED shines in orange then read any two EM cards, the LED will turn in red, means reset to factory default setting successfully. Of the two EM cards read, the first one is Manager Add Card, the second one is Manager Delete Card.

Remarks: Reset to factory default setting, the users' information enrolled is still retained. When reset to Factory setting, the two Manager cards must be re-enrolled.

11. Sound	l and Light	Indication

Operation Status	LED	Finger Sensor	Buzzer
Reset to factory default setting	Orange	-	2 Short Rings
Sleeping mode	Red Shines Slow	-	-
Stand by	Red Shines Slow	Shine	-
Enter into programming mode	Red Shine	-	Long Ring
Exit from programming mode	Red Shines Slow	-	Long Ring
Wrong operation		-	3 Short Rings
Open the door	Green Shines	-	Long Ring
Alarm	Red Shines Fast	-	Alarm

·13·

Input Voltage

Idle Current

Active Current

User Capacity

Card Type

Resolution

Dimensions

FAR

FRR

N/W

G/W

Card Reading Distance

Operating Temperature

Operating Humidity

Fingerprint Input Time

Identification Time

S
one fingerprint twice # just input finger continuously)
1 Card Number (8 digits) # out cards or card number
ust enroll the card number and he card number is the 8 digit
users, it can just enroll the ave to get the card if it is lost.
nber # user fingerprint # any digit between 3 - 1000,
y: 2 nd user fingerprint
card # Or 1 ID number
ligit between 1001-3000, but
1st card 1002 # 2nd card 1st card number 1002 # d number
ers
rint once # 2 card number # t fingerprint or card continuously

12. Technical S	pecification
age	DC 12V±10%
ent	≤ 20mA
irrent	≤ 80mA
acity	Fingerprint: 1000 Card: 2000
be	EM 125 KHz card
ading Distance	3~6 cm
gTemperature	-10 - 50
g Humidity	20%RH-95%RH
n	450 DPI
nt Input Time	<1S
tionTime	<1S
	<0.0000256%
	<0.0198%
ons	115mm×70mm×35mm
	500g
	800g