Standalone Keypad Access Control

DPN

User Manual

Please read the manual carefully before installing this unit

1. Packing list

Name	Quantity	Remarks
Keypad	1	
User manual	1	
Screw driver	1	Φ20mm×60mm, special for keypad
Rubber plug	2	Φ6mm×30 mm, used for fixing
Self tapping screws	2	Φ4mm×28 mm, used for fixing
Star screws	1	Φ3mm×6mm, used for fixing

Please ensure that all the above contents are correct. If any are missing please notify us immediately

2. Quick reference programming guide

To enter programming mode	*** Master code #** **999999** is default master code
To exit programming mode	***** Must be pressed after completing programming, until red LED starts flashing again and unit is in standby mode
Note that to undertake the following programming the master user must be logged in	
To change the master code	**0 New code # New code #** The master code can be 6 to 8 digits
To add a PIN user	**1 User ID number # PIN #** The user ID number is any number between 1 & 2000. The PIN is any 4 digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode.
To add a card user User ID number is automatically generated. Make a note of card number and User ID number to allow individual deletion in the future. See the back page.	**1 Read card #** Cards can be read continuously without exiting programming mode.
To delete a PIN or card user	**2 User ID number #** for a PIN user, or **2 Read card #** for a card user Users can be deleted continuously without exiting programming mode.
To unlock the door for a PIN user	Enter the **PIN** then press **#**
To unlock the door for a card user	Present the **Card**

3. Description

The unit is a single door multifunction standalone access controller or a Wiegand output keypad or card reader. It is suitable for mounting either indoor or outdoor in harsh environments. It is housed in a strong, sturdy and vandal proof zinc alloy electroplated case. The DPN is suitable for external use as the electronics are fully potted so the unit is waterproof and conforms to IP68. This unit supports up to 2000 users in either a card, 4 digit PIN, or a card + PIN option. The inbuilt card reader supports 125KHZ EM cards. The unit has many extra features including lock output current short circuit protection, Wiegand output, and a backlit keypad. These features make the unit an ideal choice for door access not only for small shops and domestic households but also for commercial and industrial applications such as factories, warehouses, laboratories, banks and prisons.

4. Features

- Waterproof, conforms to IP68
- Strong zinc alloy electroplated anti-vandal case
- Full programming from the keypad
- 2000 users, supports card, PIN, or card + PIN
- Can be used as a standalone keypad
- Backlit keys
- Wiegand 26 input for connection to external reader
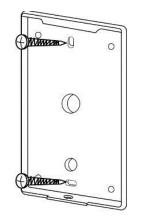- Wiegand 26 output for connection to a controller

- Adjustable door output and alarm times
- Very low power consumption (30mA)
- Fast operating speed, <20ms with 2000 users
- Lock output short circuit protection
- Easy to install and program
- Built in buzzer
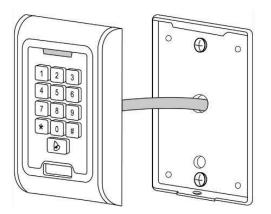- Red, yellow & green LEDs display working status
- 1m cable

5. Specification

Operating voltage	12-24Vdc
User capacity	2000
Card reading distance	2-5 cm
Active current	<60 mA
Idle current	25±5 mA
Lock output load	Max 3A
Operating temperature	-45 to 60°C
Operating humidity	10% to 90% RH
Waterproof	IP68
Adjustable door relay time	0-99 seconds
Wiegand interface	Wiegand 26 bit
Wiring connections	Electric lock, exit button, door bell

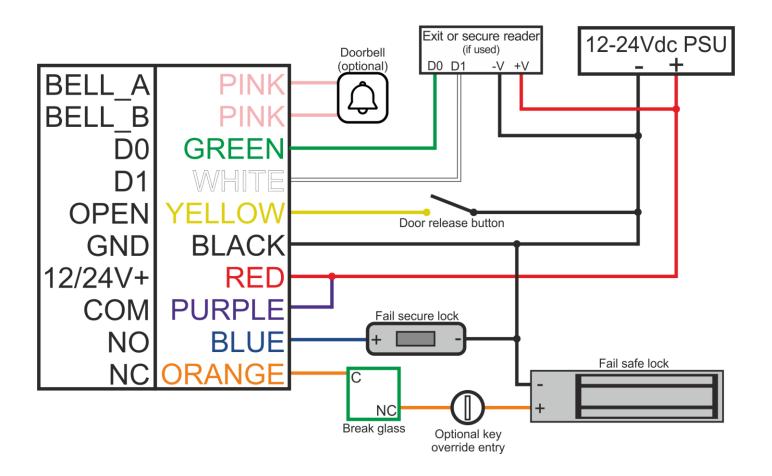## 6. Installation

- Remove the back cover from the keypad using the supplied special screw driver.
- Mark and drill two holes on the wall for the self-tapping fixing screws and one for the cable.
- Put the two wall plugs into the fixing holes.
- Fix the back cover firmly on the wall with the two self-tapping screws.
- Thread the cable through the cable hole.
- Attach the keypad to the back cover.

7. Wiring

Colour	Function	Description	
Pink	BELL_A	Doorbell button one end	Clean contact
Pink	BELL_B	Doorbell button to the other end	
Green	D0	WG output D0	
White	D1	WG output D1	
Yellow	OPEN	Exit button one end (the other end connected to GND)	
Red	12/24V +	12/24V + DC regulated power input	
Black	GND	12/24V – DC regulated power input	
Blue	NO	Relay normally open	
Purple	COM	Relay common	
Orange	NC	Relay normally closed	

8. To reset to factory default

a. Disconnect power from the unit.
b. Press and hold the # key whilst powering the unit back up.
c. On hearing the two "Di" sounds, release the # key, system is now back to factory settings.

Please note only installer data is restored, user data will not be affected.

9. Sound and light indication

Operation status	LED light colour	Buzzer
Standby	Red flashing slowly	
Press keypad		One short beep
Operation successful	Green	One long beep
Operation failed		Three short beeps
Enter into programming	Red	One long beep
Programmable status	Orange	
Exit programming	Red flashing slowly	One long beep
Door open	Green	One long beep
Alarm	Red flashing quickly	Alarming

10. Detailed programming guide

10.1 User settings

To enter programming mode	*** Master code #** **999999** is default master code
To exit programming mode	***** Must be pressed after completing programming, until red LED starts flashing slowly again and the unit is in standby mode
Note that to undertake the following programming the master user must be logged in	
To change the master code	**0 New code # New code #** The master code can be 6 to 8 digits
Setting the working mode Set valid card users only Set valid card **and** PIN users Set valid card **or** PIN users (Default)	 **3 0 #** Entry is by card only **3 1 #** Entry is by card and PIN together **3 2 #** Entry is by card or PIN (Default)
To add a user in either card or PIN mode, i.e. in the 3 2 # mode. (default settings)	
To add a PIN user	**1 User ID number # PIN #** The user ID number is any number between 1 & 2000. The PIN is any 4 digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode as follows: **1 User ID no1 # PIN # User ID no2 # PIN #**
To delete a PIN user	**2 User ID number #** for a PIN user, or 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).	*** User ID number # Old PIN # New PIN # New PIN #**
To add a **card** user (Method 1) This is the fastest way to add cards. User ID number is automatically generated.	**1 Read card #** Cards can be added continuously without exiting programming mode
To add a **card** user (Method 2) In this method a user ID number is allocated to a card. Only one user ID number can be allocated to a single card.	**1 User ID number # Read card #** Cards can be added continuously without exiting programming mode

To add a **card** user (Method 3) In this method the card is added by the last 8 digits printed on the card. User ID number is auto generated.	**1** **Card number** **#** Cards can be added continuously without exiting programming mode
To add a **card** user (Method 4) In this method a user ID number is allocated to a card number. Only one user ID number can be allocated to a single card.	**1** **User ID number** **#** **Card number** **#** Cards can be added continuously without exiting programming mode
To delete a **card** user by card	**2** **Read card** **#** Cards can be deleted continuously without exiting programming mode
To delete a **card** user by user ID number This option can be used when someone has lost their card	**2** **User ID number** **#** Cards can be deleted continuously without exiting programming mode
To delete a **card** user by card number This option can be used when someone has lost their card	**2** **Card number** **#** Cards can be deleted continuously without exiting programming mode
To add card and PIN user in card and PIN mode (**3** **1** **#**)	
To add a card and PIN user (The PIN is any four digits between 0000 & 9999, with the exception of 1234 which is reserved)	Add a card as for a card user Press ***** to exit programming mode Then allocated the card a PIN as follows: ***** **Read card** **1234** **#** **PIN** **#** **PIN** **#**
To change a PIN in card and PIN mode (Method 1) (This step must be done out of programming mode).	***** **Read card** **Old PIN** **#** **New PIN** **#** **New PIN** **#**
To change a PIN in card and PIN mode (Method 2) (This step must be done out of programming mode).	***** **User ID number** **Old PIN** **#** **New PIN** **#** **New PIN** **#**
To delete a card and PIN user just delete the card	**2** **User ID number** **#**
To add a card user in card mode (**3** **0** **#**)	
To add and delete a card user	The operating is the same as adding and deleting a card user in **3** **2** **#**
To delete all users To delete **ALL** users. **Use with care.**	**2** **0000** **#**
To unlock the door	
For a **PIN** user	Enter the **PIN** then press **#**
For a **card** user	**Read Card**
For a **card & PIN** user	**Read Card** then enter **PIN #**

10.2 Door settings

Note that to undertake the following programming the master user must be logged in	
Relay output delay time	
To set the door relay time	**4 0 – 99 #** 0 – 99 is to set the door relay time to 0-99 seconds
Alarm time	
To set alarm time (0-3 minutes) Factory default is 1 minute	**5 0-3 #**
Keypad lockout & buzzer activated.	
If there are 10 invalid cards or 10 incorrect PIN numbers in a 10 minute period either the keypad will lockout for 10 minutes or the built-in buzzer will sound for 10 minutes, depending on the selection below.	
Normal status: No keypad lockout or buzzer sound (Factory default)	**7 0 #**
Keypad lockout	**7 1 #**
Built-in buzzer activated	**7 2 #**

11.Issue record
It is highly advised to keep an issue record (ideally digitally) so individual users can be deleted at a later date.

Site:		**Door location:**	

User ID No	User name	PIN	Card number	Issue date
1				