Metal Touch Access Controller

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 the supplier of the unit.

2. Quick Reference Programming Guide

To enter the programming mode	* Master code #	
	999999 is the default factory master code	
To exit from the programming mode	*	
Note that to undertake the following programming the master user must be logged in		
To change the master code	New code # New code #	
	The master code can be 6 to 8 digits long	
To add a PIN user.	1 User ID number # PIN #	
	The ID number is any number between 1 & 2000. Th PIN is any four digits between 0000 & 9999 with th exception of 1234 which is reserved. Users can be adde continuously without exiting programming mode	
To add a card user	Read Card H Cards can be added continuously without exiting programming mode	
To delete a PIN or a card user.	☐ User ID number ☐ for a PIN user or ☐ 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 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 which is available in either a bright silver or matt silver finish. 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, 13.56MHz Mifare 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, Card + PIN
- Can be used as a stand alone keypad
- Backlight keys
- Wiegand 26 input for connection to external reader
- Wiegand 26 output for connection to a controller
- Adjustable Door Output time, Alarm time, Door Open time
- Very low power consumption (30mA)
- Fast operating speed, <20ms with 2000 users
- Lock output current short circuit protection
- Easy to install and program
- Built in light dependent resistor (LDR) for anti tamper
- Built in buzzer
- Red, Yellow and Green LEDS display the working status

5. Specifications

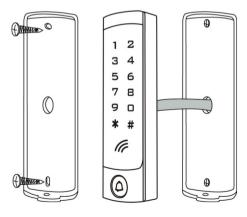
Operating Voltage	12V DC
User Capacity	2000
Card Reading Distance	3-6 cm
Active Current	<60mA
Idle Current	25±5 mA
Lock Output Load	Max 3A
Alarm Output Load	Max 20A
Operating Temperature	-45°C 2 60°C
Operating Humidity	10%- 90% RH
Adjustable Door Relay time	0 -99 seconds
Adjustable Alarm Time	0- 3 minutes
Wiegand Interface	Wiegand 26 bit
Wiring Connections	Electric Lock, Exit Button, External Alarm

6. Installation

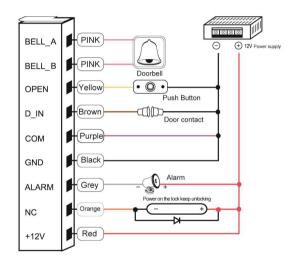
- Remove the back cover from the keypad using the supplied special screw driver
- Drill 2 holes on the wall for the Self tapping screws and I hole for the cable
- Put the supplied rubber bungs to into the two holes
- Fix the back cover firmly on the wall with 2 Self tapping screws
- Thread the cable through the cable hole
- Attach the keypad to the back cover.

7. Wiring

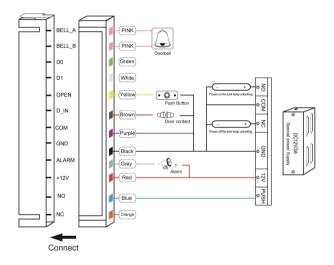
Colour	Function	Description
Pink	BELL_A	Doorbell button one end
Pink	BELL_B	Doorbell button to the other end
Green	D0	WG output D0
White	D1	WG output D1
Grey	ALARM	Alarm negative(alarm positive connected 12 V+)
Yellow	OPEN	Exit button one end(the other end connected GND)
Brown	D_IN	Magnetic switch one end(the other end connected GND)
Red	12V+	12V + DC Regulated Power Input
Black	GND	12V - DC Regulated Power Input
Blue	NO	Relay normally-on end(Connect positive electric lock "-")
Purple	COM	Relay Public end, connect GND
Orange	NC	Relay Closed end(Connect negative electric lock "-")



common power supply diagram:



special power supply diagram:



8. To Reset to Factory Default

- a. Power on, press # and release it quickly when LED turns orange
- b. On hearing two "Di" sound , system is back to factory settings

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

9. Anti Tamper Alarm

The unit uses a LDR (light dependent resistor) as an anti tamper alarm. If the keypad is removed from the cover then the tamper alarm will operate.

10.Sound and Light indication

Operation Status	Red Light	Green Light	Yellow Light	Buzzer
Power on	-	Bright	-	Di
Stand by	Bright	-	-	-
Press keypad	-	-	-	Di
Operation successful	-	Bright	-	Di
Operation failed	-	-	-	DiDiDi
Enter into programming mode	Bright	-	-	
In the programming mode	-	-	Bright	Di
Exit from the programming	Bright	-	-	Di
mode				
Open the door		Bright	-	Di
Alarm	Bright			Alarm

11. Detailed Programming Guide

11.1 User Settings

Toetertheprogramming noode	■ Master code ∰ 9999999 is the default factory master code			
To exit from the programming 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 long			
Setting the working mode:				
Set valid card only users	3 0 # Entry is by card only			
Set valid card and PIN users	3 1 # Entry is by card and PIN together			
Set valid card or PIN users	3 2 # Entry is by either card or PIN (default)			
To add a user in either card or PIN mode, i.e. in the 3 2 # mode. (Default setting)				

To add a Pin user	1 User ID number # PIN #		
	The ID number is any number between 1 & 2000. The		
	PIN is any four 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 no 1 # PIN # User ID no 2 # PIN #		
To delete a PIN user	2 User ID number #		
	Users can be deleted continuously without exiting		
	programming mode		
To change the PIN of a PIN user	* ID number # Old PIN # New PIN # New PIN #		
(This step must be done out of			
programming mode)			
To add a card user (Method 1)	1 Read card #		
This is the fastest way to enter cards,	Cards can be added continuously without exiting		
user ID number auto generation.	programming mode		
To add a card user (Method 2)	1 ID number # Read card #		
This is the alternative way to enter cards	User can be added continuously without exiting		
using User ID Allocation. In this method a	programming mode		
User ID is allocated to a card. Only one			
user ID can be allocated to a single card.			
To add a card user (Method 3)	1 Card number #		
Card number is the last 8 digits printed	User can be added continuously without exiting		
on the back of the card.user ID number	programming mode		
auto generation			
To add a card user (Method 4)	1 ID number. # Card number. #		
In this method a User ID is allocated to a	User can be added continuously without exiting		
card number. Only one user ID can be	programming mode		
allocated to the card number			
To delete a card user by card. Note users	2 Read Card #		
can be deleted continuously without			
exiting programming mode			
To delete a card user by user ID. This	2 User ID #		
option can be used when a user has lost			
their card			

To delete a card user by card number.	2 Card number #	
This option can be used when the user want to make the change but the card has lost	Note users can be deleted continuously without exiting programming mode	
To add a card and PIN user in card and PI	N mode (3 1 #)	
To Add a card and Pin user Add the card as for a card user		
(The PIN is any four digits between 0000	Press to exit from the programming mode	
& 9999 with the exception of 1234 which	Then allocate the card a PIN as follows:	
is reserved.)	* Read card 1234 # PIN # PIN #	
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	Read Card Old PIN# New PIN# New PIN#	
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	D number # Old PIN # New PIN # New PIN #	
To delete a Card and PIN user just delete the card	2 User ID #	
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. Note that this is a dangerous option so 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 and PIN user	Read card then enter PIN #	

11.2 Door Settings

Relay Output Delay Time	
To set door relay strike time	* Master code # 4 0~99 #*
	0-99 is to set the door relay time 0-99 seconds
Door Open Detection	
magnetic contact of the lock, if the door is	When used with an optional magnetic contact or built-in opened normally, but not closed after 1 minute, the inside people to close the door and continue for 1 minute before
of the lock, if the door is forced open, or if	th an optional magnetic contact or built-in magnetic contact the door is opened after 20 seconds ,the inside buzzer and n Output time is adjustable between 0-3 minutes with the
To disable door open detection. (Factory default)	6 0 #
To enable door open detection	6 1 #
Alarm output time	
To set the alarm output time (0-3 minutes) Factory default is 1 minute	5 0~3 #
••	s. If there are 10 invalid cards or 10 incorrect PIN numbers ill lockout for 10 minutes or both the alarm and the inside ing on the option selected below.
Normal status: No keypad lockout or alarm (factory default)	7 0 # (Factory default setting)
Keypad Lockout	7 1 #
Alarm and inside buzzer operate	7 2 #
To remove the alarm	
To reset the Door Forced Open warning	Read valid card or Master Code #
To reset the Door Open Too Long warning	Close the door or Read valid card or Master Code #

12. The unit operating as a Wiegand Output Reader

In this mode the unit supports a Wiegand 26 bit output so the Wiegand data lines can be connected to any controller which supports a Wiegand 26 bit input.

