



INTRODUCTION													
The keypad is a dual-entry multi-function access control with integrated keypad and card reader. It is designed and manufactured to perform in a wide range of indoor, outdoor and harsh environments.													
The keypad supports up to 1100 users in multiple access configurations (Card, PIN or Card + PIN). Its built-in card reader supports 125kHz EM/ 13.56MHz Mifare frequency cards.													
Both of the two relays on board can operate in Pulse Mode (suitable for access control) or Toggle Mode (suitable for arming/disarming alarms, switching lights, machines,...etc).													
The keypad has pre-programmed features like pre-coded relay programs and door bell. These features make it 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.													
Features													
<ul style="list-style-type: none"> <li>&gt; IP66</li> <li>&gt; Vandal resistant enclosure</li> <li>&gt; Pre-coded relay programs</li> <li>&gt; Multi-color LED status display</li> <li>&gt; Two programmable relay output</li> <li>&gt; 1100 users (1096 Common users + 4 Panic users)</li> <li>&gt; Card type: 125kHz EM card / 13.56MHz Mifare card</li> <li>&gt; Integrated door buzzer output</li> <li>&gt; Low power consumption (55mA)</li> <li>&gt; Anti-tamper alarm</li> <li>&gt; Toggle mode to hold door or gate open</li> <li>&gt; Relay 2 supports door bell</li> <li>&gt; 12-28V AC/DC power input</li> </ul>													
Specifications													
<table border="1"> <tr> <td>User Capacity</td><td>1100 Cards/PINS</td></tr> <tr> <td>Zone 1</td><td>1000 (891 common users + 2 panic users)</td></tr> <tr> <td>Zone 2</td><td>100 (88 common users + 2 panic users)</td></tr> <tr> <td>Operating Voltage</td><td>12-28V AC/DC</td></tr> <tr> <td>Idle Current</td><td>55mA</td></tr> <tr> <td>Active Current</td><td>80mA</td></tr> </table>		User Capacity	1100 Cards/PINS	Zone 1	1000 (891 common users + 2 panic users)	Zone 2	100 (88 common users + 2 panic users)	Operating Voltage	12-28V AC/DC	Idle Current	55mA	Active Current	80mA
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Proximity Card Reader		
EM/Mifare (Optional)	125KHz EM/13.56MHz Mifare Card	
Radio Technology		
Read Range	3-6cm	
Wiring Connections	Electric Lock, Exit Button, DDTL, External Alarm, Door Bell	
Relay		
Adjustable Relay Output Time	0-69 Seconds (3 seconds default)	
Adjustable Alarm Output Time	0-3 Minutes (1 minute default)	
Lock Output Load	3Amp Maximum	
Alarm Output Load	3Amp Maximum	
Environment		
Operating Temperature	Mests IP66	
Operating Humidity	-40°C~60°C, or -40°F~140°F 10% ~ 90% Non-Condensing	
Physical		
Surface Finish	Zinc-Alloy Enclosure	
Dimensions	Powder Coat L117 x W73 x H25mm (Wide) L130 x W56 x H23mm (Slim)	
Unit Weight	600g (Wide) / 500g (Slim)	
Shipping Weight	700g (Wide) / 650g (Slim)	
Carton Inventory		
Wiring		
Wire Color	Function	Notes
Basic Standalone Wiring		
Red	AC&DC 12-28V AC/DC Regulated Power Input	
Black	AC&DC 12-28V AC/DC Regulated Power Input	

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Simplified Instruction	
Function Description	Operation
Enter the Programming Mode	* (Master Code) # (123456 is the factory default master code)
Change the Master Code	0 (New Master Code) # (Repeat New Master Code) # (code: 6 digits)
Add Card User	1 (Read Card) # (for Zone 1) 2 (Read Card) # (for Zone 2)
Add PIN User	1 (User ID 1-1000) # (PIN) # (for Zone 1) 2 (User ID 1001-1100) # (PIN) # (for Zone 2) The PIN is any 4-6 digits between 0000 - 999999
Delete User	3 (Read Card) # 3 (User ID) #
Exit from the Programming Mode	*
How to be granted access	
Card User	Read Card
PIN User	Enter (PIN) #

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Grey&Black	GND	Negative Pole
Blue	NO 1	Normally Open Relay 1 Output
White	COM1	Common Connection for Relay 1 Output
Green	NC 1	Normally Closed Relay 1 Output
Yellow	OPEN1	Request to Exit Input 1(REQ)
Advanced Input and Output Features		
Blue&Black	NO 2	Normally Open Relay 2 Output
White&Black	COM2	Common Connection for Relay 2 Output
Green&Black	NC 2	Normally Closed Relay 2 Output
Yellow&Black	OPEN2	Request to Exit Input 2(REQ)
Grey	Alarm	Alarm Negative
Brown	D_IN	Door Status Detecting

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## **FCC STATEMENT :**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.