

1. Product Introduction, Feature & Technical Parameters

1.1 Introduction:

- Mini 100 controls one door: 1 Reader(enter)+1 Reader(exit) or 1 Reader(enter) +1 Exit button.
- Up to 1000 user capacity, each user owns one card and one PIN. Also it can be connected with the exit button.
- All setting can be done through infrared remote control or keypad reader if external reader is keypad one. It offers user easy operation & safe guarantee.

1.2 Feature :

- Compact, economical and practical, secure and reliable, and fit for type of 86 Box installation inside of room.
- If external Reader is keypad one, then all the setting of Mini 100 can be done on keypad reader.
- Using provided infrared remote control to do all the setting of Mini 100.
- The door won't be opened even the external reader is damaged, or encountered by strong magnetic or short circuit or any other illegal way.
- 1000 user capacity, apply to office, villa, household use etc.
- User information can be copied between every mini controller.
- Every user can change the password without master if external reader is keypad one.
- Password is 4-6digits, more security.
- Wiring is very simple; can be done by users without professional knowledge; can be connected with various electric lock and no need to change external wiring.

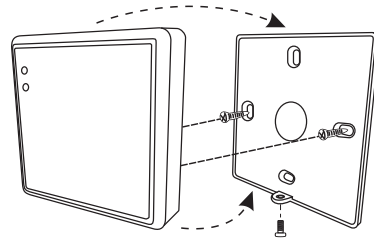
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1.3 Technical Parameters:

- Input Voltage: DC12~14V
- Idle current : $\leq 11\text{mA}$
- Lock Output load: $\leq 3\text{A}$
- Time of copying user information: $\leq 8\text{s}$
- Wiegand input format: 4Bit or 8Bit of pressing one key, 26-37Bit virtual card No.
- Dimension: 86(H) \times 86(W) \times 20mm(T)
- Operating Temperature: -40~60 $^{\circ}\text{C}$
- Operating Humidity: 0~95% (non-condensing)

2. Installation & Connection Diagram(fit for type of 86Box installation)

2.1 Installation Diagram:



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2.2 Wiring Diagram

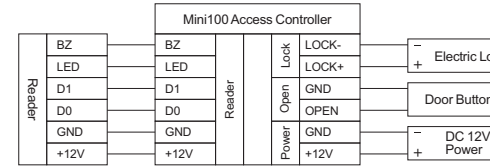


Figure 2 : Wiring Diagram

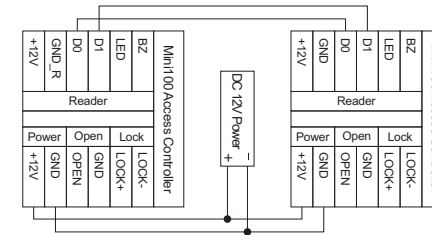


Figure 3: Wiring of copying user information

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3. User Operation

3.1 Swiping Card to open door:

[Swiping user card once], door will be opened.

3.2 Swiping Card+PIN to open door:

[Swiping user card once, and enter 4-6digits PIN,#], door will be opened.

3.3 Card or PIN to open door:

Swiping user card once or enter 4-6digits PIN, #, door will be opened.

3.4 Relay setting (Pulse mode and toggle mode):

Pulse mode: Everytime we swipe card or enter PIN, the door will be opened and then locked in 0-98s. This delay time can be set.

Toggle mode: Everytime we swipe card or enter PIN, the door will be opened and keep this status until we swipe card or enter PIN it will be locked, and vice versa.

3.5 Change the user's PIN

[*], Swipe user card, [Enter 4-6 digits old PIN,#], [Enter 4-6 digits new PIN,#]

[Repeat Enter 4-6 digits new PIN,# Or [*], [Enter 1-1000(ID No.)#],

[Enter 4-6 digits old PIN,#], [Enter 4-6 digits new PIN,#],

[Repeat Enter 4-6 digits new PIN,#]

Remarks: PIN users have to get the ID No. and initial PIN from master. Card users have to swipe card when change the PIN first time.

The initial PIN is 1234, it is only for changing new PIN, can't be used to open door.

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4. Master Setting

Note that all the following programming should be under master programming mode. When master's PIN is wrong and the time is over 5s before you enter PIN again, it will return to standby mode. After enter right master's PIN, it will also return to standby mode if there is no valid operation in 30 seconds. Press "*" to confirm the input number, return to previous menu by press "**", the indicator light will indicate the operation mode.

To enter the master programming mode

Red	Red Green LED flash slow	Functions	Remark
*	6-8 digits master's PIN #	To enter the programming mode	Factory default 888888

Function Settings

Red & Green LED flash slowly	Red Green LED flash quick	Functions	Remark
0	6-8 digits new PIN # repeat 6-8 digits new PIN #	To change the master PIN	
1	Read card	To add card users	Rotate Operation
	1-1000(ID)#, read card		
	8 or 10 digits card number #		
	1-1000(ID)#, 8 or 10 digits card number #		

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	1-1000(ID), #, 4-6 digits PIN, #	To add PIN users	
2	Read card	Delete one card	Rotate Operation
	8 or 10 digits card number, #		
	1-1000(ID), #	Delete one user	
2	0000, # (Note: This is a dangerous option, so use with care)	Delete All users	
	0, #		
3	1, #	Entry is by Card and PIN together	Factory default 2
	2, #	Entry is by either card or PIN	
4	0, #	To set door relay time 50mS	Factory default 5s
	1-98, #	To set door relay time 1-98S	
	99, #	Toggle mode	
5	0, #	Connect to A type of lock ①	Factory default 1
	1, #	Connect to B type of lock	
6	0000, #	Copy user information ②	Only useful for the operation by infrared remote control

Remark: ①Before you connect the electric lock to Mini 100, make sure you already set the type of lock. A type of lock refers to those lock that normally under standby status ,there is no current for lock, when there is current the door will open.

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B type of lock refers to those lock that normally under standby status, there is current for lock, when there is no current the door will open.

②The wiring for copying the user information, pls see figure 3.

The user information can be copied from A to B or from B to A. The device should be our Mini controller, and the master's password should be the same.

When the wiring is done, then you can copy user information from A to B, use the infrared remote control to do it, please avoid that device B receive the signals, otherwise your operation will failed. After enter master programming mode, then following the operation "6" in the table above, the GREEN light on around 8s, meaning information is being copying from A to B, and versa vice.

5.Reset to Factory Default

Power off, press exit button and power on, the LED turns into RED&GREEN flash quick, release exit button after you hear "beep, beep". And then you hear "Bee-eep", means reset to Factory Default successfully. But it won't delete all user information.

6. Sound And Light Indication

Operation Status	Color of LED	Buzzer
Stand by	Red	
Unlocking	Green	Bee-eep
Successful	Green	Bee-eep
Fail		Beep Beep Beep
Entering PIN	RED &Green flash slow	
Swiping card	RED &Green flash quick	
Setting	RED &Green flash quick	
Copying user information	Green	

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Mini100 Access Controller

User Manual