

TM Access Controller User Manual V2.0

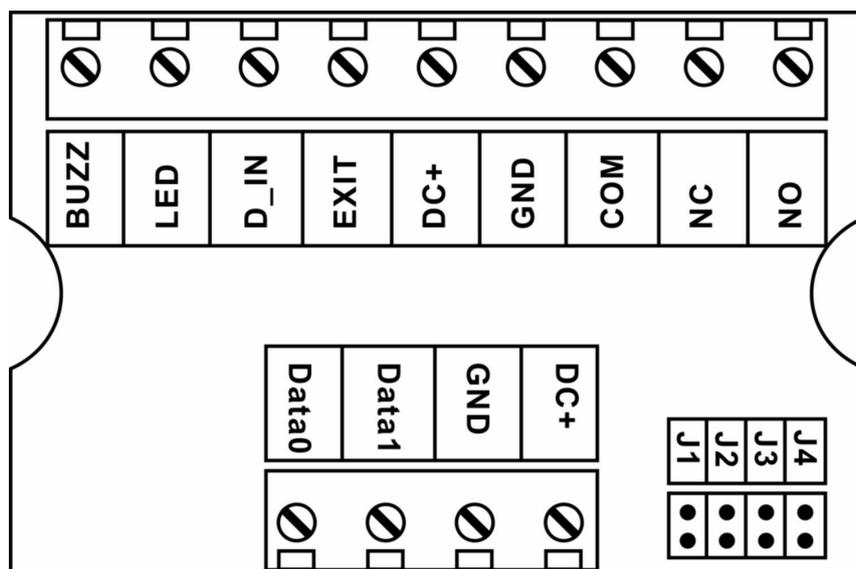
1. Product Introduction

- This access control is standalone access control which designed for single door. Support 1000 users and could connect to external Wiegand 26-44 RFID reader or Touch memory reader.
- It has two manager cards and could connect to any kinds of locks and exit button. Easy installation and operation.

2. Technical parameters

Input voltage	DC12V±20%
Quiescent current	≤17mA
Touch memory reader	DS1990A
Electric lock output current	≤3A (Relay output)
User Capacity	1000
Unlock time	1~128s
Manager cards	1~128s
Communication distance to Wiegand reader	≤100m
Communication distance to Touch memory reader	≤15m
Operating temperature	-35~60℃
Max humidity	≤90%,ROH
PCBA dimension	48×32×14mm

3. Controller Diagram and contact pin instruction



Contact pin number	Contact pin status	Function
J1	plug unplug	Delete manager card mode Normal standby mode
J2	plug unplug	Add card automatically mode Normal standby mode
J3	plug unplug	Connect to Wiegand reader Connect to TM card reader
J4	plug unplug	Triggering mode(on/off) Normal unlock

Remark: The above operations need to be in the power off state. Power on when all the operations done.

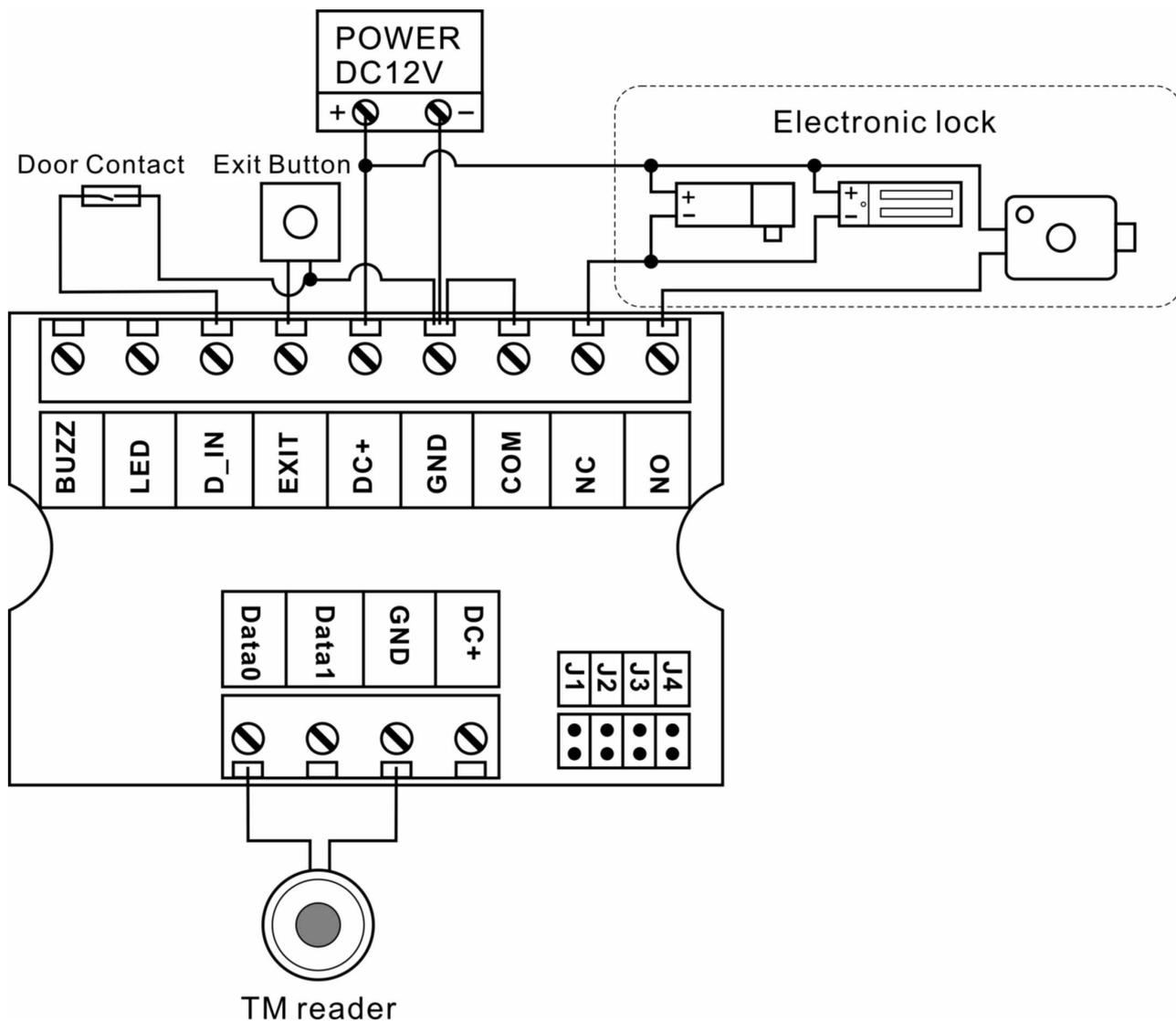
4. Terminal and wiring

4.1 Terminal description

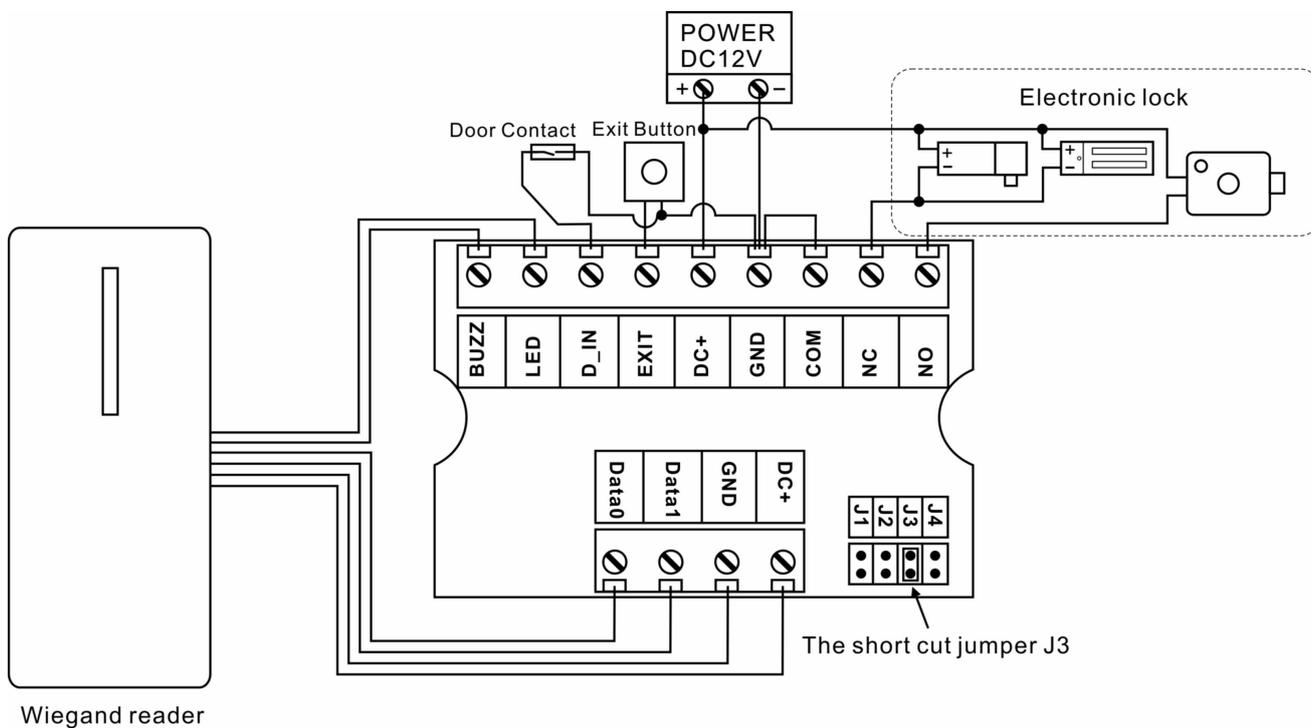
Item	Terminal	Description
1	GND	connect to negative pole
2	DC+	connect to positive pole of +12V
3	NO	Relay on
4	COM	Relay COM
5	NC	Relay NC
6	LED	connect to LED line of external reader
7	BUZZ	connect to the line of buzzer
8	OPEN	Connect to exit button
9	D_IN	Connect to Door status button
10	DATA 0	connect to DATA 0 output interface of wiegand reader or DATA output interface of Touch memory reader
11	DATA 1	connect to DATA 1 output interface of wiegand reader

4.2. Wring

4.2.1 Touch memory reader wiring



4.2.2 Wiegand 26 reader wiring



5. Controller operation instruction

5.1 Add manager card

Take off the short cut jumper J1, power on, the controller's green light flashes. Swipe the card 1, card 2. The controller is in standby mode. The LED light is turned off. These two cards will be the manager cards.

Remark:

- 1.If there is no operation after you swipe the card 1, the machine has been waiting for the state of swiping the manager card 2. If turn off , then power on again, the device is in the mode of adding the manager card.
2. If you only need 1 manager card. Just swipe the same card twice when add the manager card.

5.2 Delete manager card

Plug the short cut jumper J1, power on, the controller beeping and the green light flashes for 3 seconds. Then unplug the J1, the manager cards deleted successfully. If power on again after delete the manager cards, the controller will enter to the mode of add manager cards, the controller's green light flashes.

5.3 Add new users

5.3.1 Add new user cards by manager card

Swipe the manager card when the controller is in standby mode. The device will sound "DiDi" twice, the green light turn on. Swipe the user cards (swipe each user card once). When all the user cards added, then swipe the manager card or waiting for 1 minute, the green light turn off and the controller is in standby mode.

5.3.2 Add new user cards automatically (Remark Manager cards have been already added)

Power off, plug the short cut jumper J2, then power on, swipe all the invalid user cards, door open and all the invalid user cards added successfully. The valid cards could open the door.

5.4 Delete users

5.4.1 Delete all the users

In the standby mode, swipe the manager card twice, green light flashes. Hold the exit button. After 5 seconds, the buzzer will sound "DiDi..." and the green light flashes. All the user cards delete, then swipe the manager card twice or waiting for 1 minute, the controller is in standby mode.

5.4.2 Delete the user

In the standby mode, swipe the manager card twice, the buzzer will sound “DiDi “ twice and the green light flashes. Swipe the user card (The user need to be deleted) on the card reader. Then swipe the manager card or waiting for 1 minute, the controller is in standby mode.

5.5 Open time setting

Swipe the manager card, the device will sound “DiDi” twice, the green light turn on. At this time, hold the exit button. The buzzer beeping per second and the green light on means the open time is 1 second. The number of the sound times is the open time. When all setting done, release the exit button, swipe the manager card or waiting for 1 minute, the system will enter the standby mode.

Remark: open time: 1-128s, factory default: 3 seconds.

5.6 Trigger mode

Plug the short cut jumper J4, power on. When swipe the card at first time,Keep the lock on and the green light on. When swipe the card at second time, keep the lock off and the the green light turn off.

6. User operation

Plug the short cut jumper J3, power on, then connect Wiegand card reader mode;
Unplug the short cut jumper J3, power on, and connect to Touch memory reader mode.

7. Door magnetic switch

The door magnetic switch can be connected externally. When the door is opened by swiping the card, the buzzer will sound "Di...", and the door will be closed immediately, the buzzer will stop, and the delay time of the door opening will be stopped.

