

SBC/WPC 03 PRO User Manual

1. Product Introduction

SBC/WPC 03 PRO is an autonomous controller of TM "DALLAS" electronic keys and Wiegand 26-42 RFID reader, designed taking into account the needs of users and installers. The controller is functional and easy to use, as well as easy to install and program. Supports 1000 users. Controller has two manager cards and can be connected to any locks and exit buttons.

2. Technical parameters

Input voltage: DC12V±20%

Quiescent current: ≤17mA

Wiegand 26-42

Touch memory reader: TM1990A

Electric lock output current: ≤3A (Relay output)

User Capacity: 1000

Unlock time: 1~127s

Manager cards: 2 cards

Communication distance to Wiegand reader: ≤100m

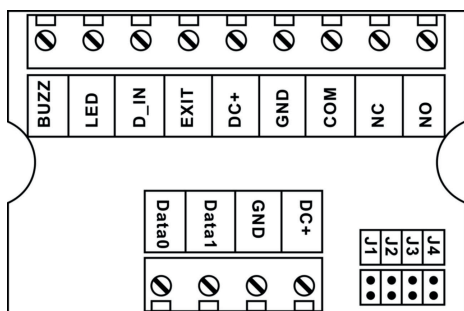
Communication distance to Touch memory reader: ≤15m

Operating temperature: -35~60C

Max humidity: ≤90%,ROH

PCBA dimension: 48×32×14mm

3. Controller Diagram and contact pin instruction



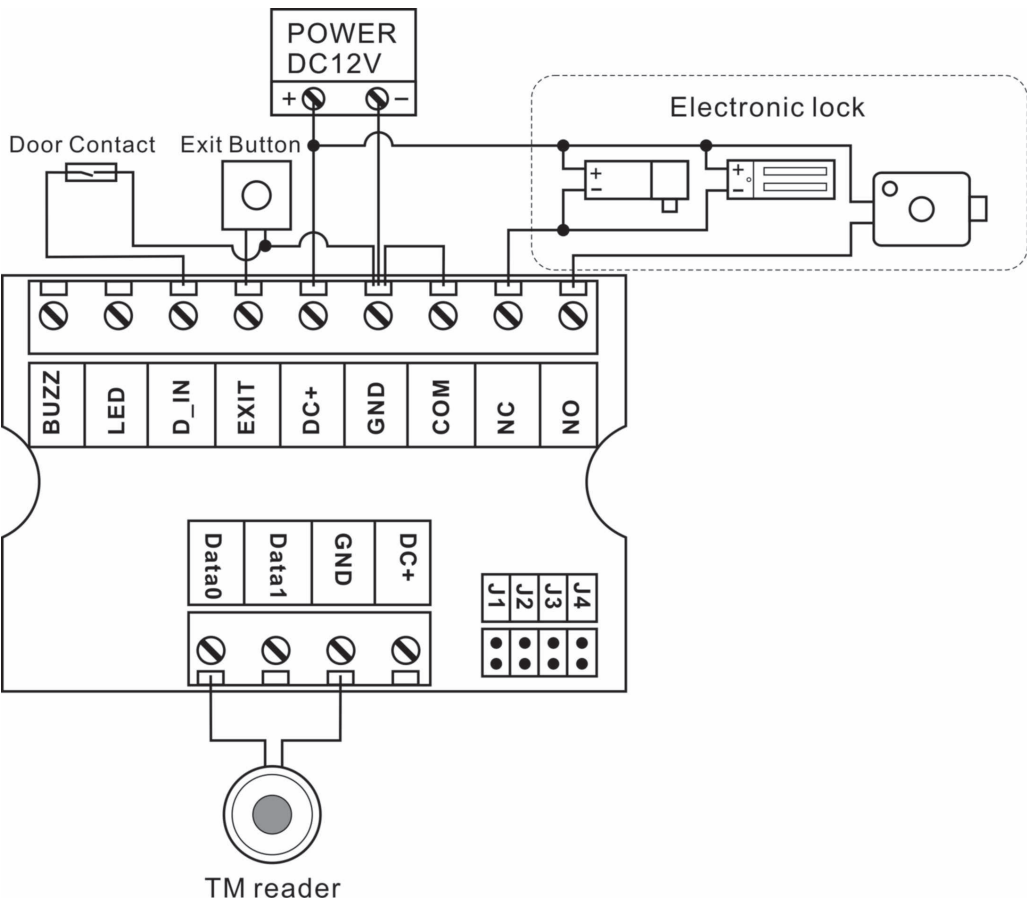
Contact pin number	Contact pin status	Function
J1	plug	Delete manager card mode
	unplug	Normal standby mode
J2	plug	Add card automatically mode
	unplug	Normal standby mode
J3	plug	Connect to Wiegand reader
	unplug	Connect to TM card reader
J4	plug	Triggering mode (on/off)
	unplug	Normal unlock

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

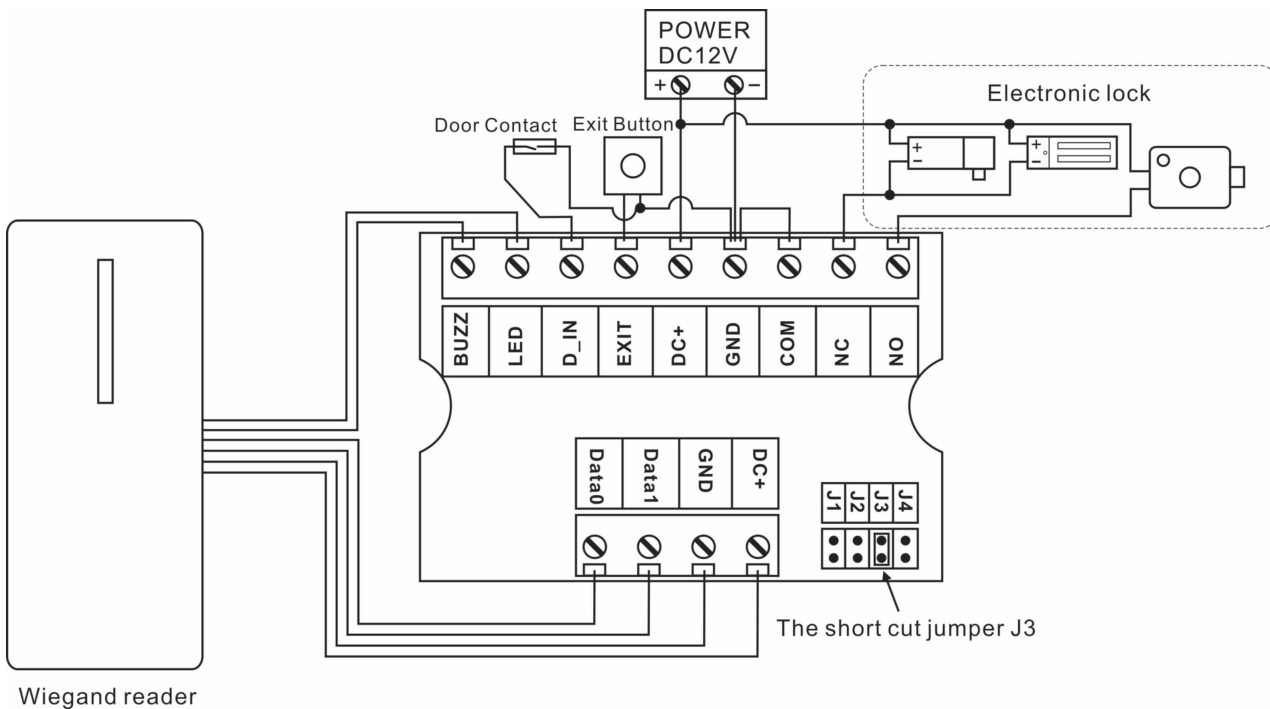
4. 4. Terminal and wiring
4.1 Terminal description

Item	Terminal	Description
1	GND	connect to negative pole
2	DC+	connect to positive pole +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	connect to DATA 1 output interface of Wiegand reader

4.2 Wring
4.2.1 Touch memory reader



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. The green light and red light of external reader flash in turn. Swipe the card 1, card 2. These two cards will be the manager cards. The controller is in standby mode.

Remark:

1. If there is no operation when you swipe the card 1, then quit after 30 seconds or quit by power off. The manager card 1 is valid. Power on again, the device is in the mode of add the second manager card. Swipe the card 2 will exit to the standby mode.
2. If you only need 1 manager card. Just swipe the 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 on. Swipe the user cards (swipe each user card once). The buzzer will sound "Di" and the green light goes on when swipe the user card. If swipe the same user card again, the buzzer will sound "DiDiDi" but the green light won't go off. When all the user cards added, then swipe the manager card twice, the green light goes off and the controller is in standby mode. When all the user cards added, then swipe the manager card twice or waiting for minute, the green light goes 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, power on, swipe all the invalid user cards, door open and all the invalid user cards added successfully.

5.4 Delete users

5.4.1 Delete all the users

In the standby mode, swipe the manager card twice, green light flash. Hold the exit button. After 5 seconds, the buzzer will sound "DiDiDi" but the green light won't go off. When all the user cards delete, the controller is in standby mode.

5.4.2 Delete the users

In the standby mode, swipe the manager card twice, green light flash. Swipe the user card (The user need to be deleted) on the card reader (each user card is swiped once, interval time for 1-2 seconds), then swipe the manager card twice, the green light goes off and the controller is in standby mode.

5.5 Open time setting

Swipe the manager card, the device will sound "DiDi" twice, the green light 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, the system will enter the standby mode.

Remark: open time: 1-127s, 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 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.