

One-door Access Controller

User Manual V2.4

1. Specifications:

1.1 Technical parameters:

NO	Item	Value
1	Operating voltage	DC 12V±10%
2	Operating current	< 100mA
3	Dimensions	120×78×22(mm)
4	Weight	110g
5	Ambient temperature	0℃—60℃
6	Relative humidity	20%—80%
7	Storage	1000users
8	Card type (alternative)	EM(MD) card (IC card for options)
9	Card reading distance	1—15CM

1.2 Factory Default:

Programming Password	123456
Common Access Password	None
Relay Unlock output	5 Seconds
Open mode	Card or Access Password Access Password include Private Access Password (PIN) and Common Access Password
Security mode	OFF
Backlight (For options)	Auto
W26 port (For options)	Input

1.3 Light and Sound Indicates:

Light: red and green

Light Description	Indicates
Red light flash every 1 sec (Slow flash)	Standby state
Green light flash every 0.5sec (Fast flash)	Pending further action
Red light is always ON	Programming state
Green light is always ON within Open Time	Unlocking state

Sound: Buzz

Sound Description	Indicates
1 short buzz	Valid input
3 short buzz	Invalid input
1 long buzz	Programming success
Continuous long buzz	Restoring factory programming passwords

2. Installations Guide:

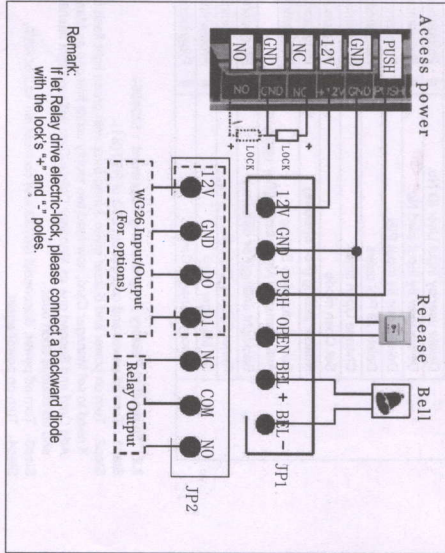
JP1 terminal:

NO	Mark	Color	Function
1	+12V	Red	Power+
2	GND	Black	Power-
3	PUSH	BLUE	Low level output
4	OPEN	Yellow	Door Release
5	BEL+	Grey	High level input
6	BEL-	White	Voltage output

JP2 terminal:

NO	Mark	Color	Function	Remark
1	+12V	Red	Power+	For options
2	GND	Black	Power-	
3	DATA0	Green	WG DATA0	
4	DATA1	White	WG DATA1	
5	NC	Brown	Relay NC output	
6	COM	Blue	Relay Com output	
7	NO	Purple	Relay NO output	

Wiring diagram:



3. Programming Guide

3.1 Detailed Programming Guide:

Programming Password Default: 123456, all password can be 3-6 digits

Purpose		Operations				Instructions	
Basic Function	Change Programming Password	#	0	new Programming Password	#		
	Add user card	#	1	read card	#		If Programming Password lost, perform 3.2 to reset to Factory Default (123456).
	Set Common Access Password	#	21	new Common Access Password	#		If add multi cards, read cards continuously
	Delete all users	#	40	0000	#		Common Access Password is only one. Open method: Common Access Password #
	Delete user by read card	#	41	read card	#		Delete all cards and PIN except Common Access Password
Expand Function	Add Private Access Password(PIN)	#	22	PIN	#		If delete multi cards, read cards continuously
	Add card by input card No.	#	23	input card No.	#		PIN can be more. Open method: PIN #
	Add multi-card by input card No. zone	#	24	input start card No.	card Qty	#	Card No. is 10-digit or 8-digit, machine auto-identity
	Add "card +PIN"	#	3	read card	PIN	#	Card Qty is 4-digit (if one-time add twenty cards, input 0020)
	Delete user by input User ID No.	#	42	input User ID No.	#		If modify PIN, see 3.5
	Delete user by input card No.	#	43	input card No.	#		About User ID No, see 3.4
	Delete user by input PIN	#	44	input PIN	#		Card No. is 10-digit or 8-digit, machine auto-identity
	Delete all PIN users	#	45	1111	#		PIN is 3-6 digits.
	Change Open time	#	5	XX	#		Use for PIN users (Do not include Card users and Card +PIN users)
	Set Open mode	#	6	XX	#		XX can be 01(only Card) / 02 (Card or Access Password) / 03 (Card+PIN)
	Reader setting (For options)	#	6	04	#		XX can be 01(only Card) / 02 (Card or Access Password) / 03 (Card+PIN)
	Security Function Setting	#	7	XX	#		The machine can be used for reader(W26 output)
	Anti-dismantle Alarm setting(For options)	#	8	XX	#		XX can be 01 / 02 (Security function OFF / ON) and 03/04(Anti-dismantle Alarm OFF / ON)
	Backlight setting(For options)	#	8	XX	#		System would be locked for 5 Minutes if continue to read illegal cards or input wrong Access Password for 10 times.
	Reset Factory Default	#	8	99	#		XX can be 01/02/03 (Normal ON / Normal OFF / Auto)
	Set Manager Card	#	91	read MAC	read MDC	#	Except Programming Password and Manager Card
	Cancel Manager Card	#	92	#	#		First read card is Manager Add Card and Second read card is Manager Delete Card.
		#	92	#	#		MAC: Manager Add Card, MDC: Manager Delete Card

3.2 To reset to Factory Programming Password (123456)

Step1. Turn off power and connect bin 2&3 of RST(S1).

Step2. Turn on power and buzzer gives 3 long buzz with green light flash fast.

If need to set Manager Card, now read two empty cards first one as Manager Add Card and Second one as Manager Delete Card with red light flashing and continuous short buzz.

Step3. Turn off power, disconnect bin2&3 and connect bin 1&2 of RST.

Step4. Turn on power again.

3.3 How to use Manager Card - MAC&MDC

To add a card user in standby mode: read MAC read new cards read MAC

To delete a card user in standby mode: read MDC read registered cards

To delete all users in standby mode: read MDC read MAC read MDC

Remark: User cards can be added or deleted continuously.

3.4 User ID No. explain

User ID is auto-generating 4-digit number started at 0001. The number increases with adding user one by one and ignores deleting user.

Common Access Password has no ID.

3.5 How to change PIN (When open mode: card+PIN)

After reading card and input corresponding PIN to open the door within 5 seconds, long press # until the green light flash fast, and then input new PIN # new PIN #, new PIN changed successfully with a long buzz.

门禁电源

产品说明书

V2.0

产品使用前请仔细阅读产品说明书，并妥善保管产品说明书。

一 应用和简介

本电源适用于各种出入口门禁控制器以及楼宇对讲等设备，特别适用于各种类型的电锁。

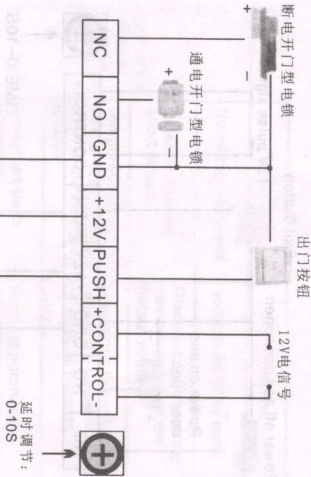
可通过门禁控制器的控制输出或其它开关信号控制电锁，减小电锁反向感应电流对门禁控制器运行的干扰，减少安全隐患；可按各种常开（NO）或常闭（NC）电锁。

内置延时电路可设定开锁时间；设开门按钮输入，可控制开启电锁；设CONTROL控制点，可输入12V电信号控制电锁的打开和闭合；电路内置保护电路，当外部线路短路、负载过大、保险丝将自动断开并切断电压输出，将故障排除后，可更换新的保险丝正常使用。

二 技术参数

名称	5A	3A	5A后备	3A后备
交流输入	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz
输出电压	DC12V	DC12V	DC12V	DC12V
瞬间电流	5A	3A	5A	3A
持续电流	2A	1.2A	2A	1.2A
工作温度	-20℃至+60℃	-20℃至+60℃	-20℃至+60℃	-20℃至+60℃
工作湿度	≤90%RH	≤90%RH	≤90%RH	≤90%RH
开门延时	0-10秒可调节	0-10秒可调节	0-10秒可调节	0-10秒可调节
外观尺寸	182*79*62mm	182*79*62mm	214*168*73mm	214*168*73mm
电池接口	有	有	有	有

三 输出端子接线图及释义



门禁一体机接线端子

NC端与GND端：断电开门型电锁控制端口，常态输出DC12V电压，NC为正，触发后断电0-10秒。（空载时NC与GND输出17V）
NO端与GND端：通电开门型电锁控制端口，常态无输出，触发后NO为正，输出DC12V电压0-10秒。
PUSH与GND端：开门按钮输入端，可输入开关控制量。
+12V端与GND端：可为设备提供DC12V电源。
CONTROL电信号输入端：可输入DC12V电信号控制。（注：输入电信号正极接CONTROL+，电信号负极接CONTROL-）

四 常见故障解决方法

故障描述	故障分析	解决方法
故障一： 电源无电压输出	①交流 AC 220V 输入没有电压；	接通 AC 220V；
	②外接设备短路；	将外接设备全部断开后测量输出电压；
故障二： 电锁不锁	③变压器输出与电路板连接线路断；	检查连接线路重新连接好后，通电测量电压；
	④电源已损坏；	联系供货商，进行维修；
故障三： 电锁不锁	①接线错误；	按照上述接线图重新接线；
	②电源接锁位置无电压输出；	按照“故障一”排查；
故障四： 电锁不锁	③接在电源上的按钮线接错或短路；	请先将按钮线拆除，再观察锁的状态；
	④若使用电插锁，检查电插锁的锁片；	将锁片与电插锁对应，锁才会锁；

备注：使用电锁锁时请将开门延时调至最小。
PUSH与GND为开关控制重输入，严禁将电信号接入PUSH与GND。



产品名称： 电源
Product name

检验员：
Quality Inspector

检 05

出厂日期：
Date of manufacture

保修卡 Warranty Card

真诚的感谢您购买了我们的产品，作为我产品的用户，您将得到以下保证：

- 一：一年免费保修服务
- 二：三年成本维修服务
- 三：免费技术支持服务

以上服务自产品购买之日起生效，当需要维修时，到经销商处出示购买产品的票据及本保修卡，否则恕不办理；由产品自身引发的质量问题在保修服务范围之内，由用户使用不规范或其他环境因素导致的问题，均不在免费保修范围之内，免费保修服务只针对产品本身，由产品保修引发的其他费用均由用户自理。

Sincerely thank you for buying our products, as the user, you will get the following guarantee:

1. Free warranty service for one year.
2. Cost maintenance service for three years.
3. Free technical support service.

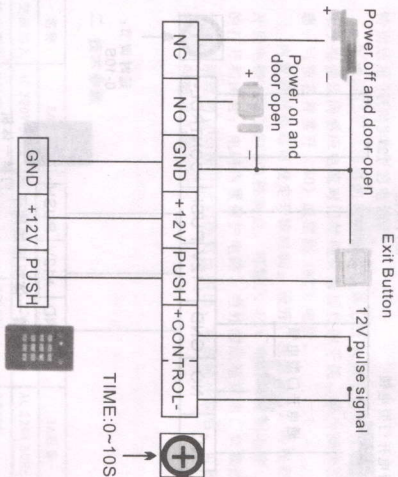
The above service shall become effective from the date of product purchasing. When in need of repair, you should show the product of bill and this warranty card to the dealer, or will not be dealt with. The product itself caused quality problems are in guarantee within the scope of service; the other factors are not within the scope of free warranty service, like improper using or other environmental factors. The free warranty service is only for the product itself, the other maintenance expenses all by users themselves.

Common fault and solution

Discription	Analysis	Solution
	No voltage AC input	voltage AC 220V input
	External devices short circuit	Disconnect all external devices measure the output voltage
Discription: Without voltage output	Temperature exceeds 85°C, since the resumption of the insurance breaker	Measuring the output voltage in the power is turned off after 30 minutes
	Power has been damaged	Contact purchasing personnel maintenance
	Wiring errors	In accordance with the wiring diagram
	NC and NO Pick lock position without the voltage output	In accordance with the above troubleshooting
Discription: Lock unlock	Button lines are wrong or short-circuit	Observe the state of the lock Remove button wiring
	Check the electrical plug lock locking plate	Lock and lock magnetic point corresponding

NOTE: Please open the door when the use of electronically controlled lock delay to the minimum.

Output terminal wiring schematic drawing



NC and GND terminal, normally output DC 12V, press button to cut off power supply (0-10s), NC is anode.
(no load NC and GND output 17V)
NO and GND terminal, normally no output; Press button to output DC12V(0-10s), NO is anode.
PUSH and GND terminal, Connect exit button or time attendance, +12V and GND terminal, The need for equipment 12V.
City short-circuit but equipment to work.

Application

Be applied to building talkbacks and kinds of access controllers, especially electric locks and bolts. Through the signal lines or access controller and the other switches signal output to control the electric lock directly. Can be decrease the access controller load and reduce potential safety hazard.

Can meet various Normal open (NO) or closed (NC) of electricity lock. Set to unlock time delay circuit. Set open button input. Can open electricity lock. Set CONTROL points.

The 12V electrical signal input control the open and close. Set up automatic protection circuit inside the circuit. When an external circuit short-circuited. Load and high temperature and high voltage occurs. Will automatically cut signal output. When trouble shooting, signal output automatic recovery. Such as fuses damaged, realace the fuse

Technology Parameters

NAME	POWER SUPPLY	UNINTERRUPTED POWER
AC Input Voltage:	AC 220V 50Hz	AC 220V 50Hz
Output Voltage:	DC 12V	DC 12V
Momentary Current:	5A/3A	5A/3A
Persistent Current:	2A/1.2A	2A/1.2A
Operating Temperature:	-20℃~+60℃	-20℃~+60℃
Operating Humidity:	≤90%RH	≤90%RH
Time:	0-10s	0-10s
Size:	182*79*62mm	214*168*73mm
Battery interface:	NO	YES

Power Supply

Product description

V2.0

Product before use, carefully read the instructions, and take good care of the manual