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Retekess

Metal Access Control System Manual

T-AC01

Product Introduction

Thank you for purchasing metal standalone access controller / Card reader. This product adopts a touching, induction card to open the door of the entrance guard all-in-one, there are many features as follow:

- Support four option: ID Style, IC Style, non-waterproof style, waterproof style optional.
- All-metal case design (Zinc alloy). Organic glass panel (Acrylic touch screen).
- 8000 user capacity for storing and reading to provide a powerful security, the high-grade built-in microprocessor with strong anti-interference ability, high safety and reliability.
- Data copy and backup to the same series of access control.
- Circumscribed humanized tamper alarm function.
- Can be used as card reader or standalone access controller.
- External Wiggins dummy: WG26/34 input and output.
- Can set up management cards (Deleted card and added card)...
- Active and passive lock signal output.
- Imported double point relay output signal port.
- Support three opening way: password, credit card, card + password.
- Extending function: external memory, tamper alarm, extended voice ect.

Function Characteristics

"0"	Modify programming code and set master card
"1"	Add card type user
"2"	Add password type user
"3"	Add password & card type user
"4"	Delete single user
"5"	Delete all user
"6"	Modify users password
"7"	Modify delayed open door
"8"	System initialization
"9"	Set general opening password, add and delete card
"	Press "", enter "123456#" or swipe systematic Master card directly get to Programming mode

Product Introduction

No.	Specification	Parameter
1	Reading distance	5-10cm
2	Working temperature	-20 C ~70 C
3	Working humidity	0-95%
4	Static electricity	≤50Ma
5	Working voltage	DC 12V
6	Static current	50mA

Function Setting Method

1. The Factory Default Setting

The initial opening password 7890, programming code 123456.

2. Quick Operation Setting

- 1) Swipe the main card, enter the programming system state
- 2) Swipe added card, enter the add user state
- 3) Swipe delete card, enter the delete user state

3. Modify the Programming Code and Set Up the Master Card

A. Press [*] [Programming code] [#] [0] [The new password] [#] [The new password] [#]

Note: A beeping said succeed (password length for 1-8 code)

B. Press [*] [Programming code] [#] [0] [swiping card]

Note: A beeping said setting the main card successfully.

4. Add Card Type Users

Press [*] [Programming code] [#] [1] [Four user id] [#] [Read the card]

Note: The four user ID is random, user ID automatically add 1 when continue read card.

5. Add Password Type Users

Press [*] [Programming code] [#] [2] [Four user id] [The user password] [#]

Note: Four user ID (For example: 1 enter 0001), the user password length for 0-4; A beeping said add user password type user operation is successful, you can add password type user continuously with continue to input the user code. (When opening the door, please input programming code and user password end with [#])

6. Add Card + Password Type Users

Press [*] [Programming code] [#] [3] [Four user id] [Four user password] [#] [swiping card]

A beeping said add card+ password user operation is successful, you can add card + password type user continuously with continue to input the user ID. (Opening the door process: First swipe card, Second a green light flashing, Third input user password ends with [#])

7. Delete a Single User

Press [*] [Programming code] [#] [4] [Enter the user id or credit card] [#]

Press [*] [Programming code] [#] [4] [credit card] [#]

Press [*] [Programming code] [#] [4] [Enter the 10 user card number] [#]

Note: It can be operated continuously in the condition of programming.

8. Delete All Users

Press [*] [Programming code] [#] [5] [input Programming password or main card] [#]

Note: A beeping said delete all user operation is successful.

9. Modify the User Password

Press [*] [Programming code] [#] [6] [Four user code] [4 new password] [#]

Note: The delay time is 0-255 seconds. The default is 3 seconds.

10. Modify the Door Delay Time

Press [*] [Programming code] [#] [7] [Enter delay time] [#]

Note: The delay time is 0-255 seconds. The default is 3 seconds.

11. System Initialization

Press [*] [Programming code] [#] [8] [Enter programming code or swipe master card] [#]

Note: A beeping said initial success, that clear all Settings.

12. Set Management Card (Increased Card & Deleted Card)

Press [*] [Programming code] [#] [9] [swipe card]

A. The first one is to set increased card, the second is to set deleted card.

B. This feature is convenient to increase & delete user's card.

C. Press [*] to active increased card adding users or deleted card removing users.

13. Set Up the General Password to Open The Door

Press [*] [Programming code] [#] [9] [Enter 4 password] [#]

(The initial opening password is 7890, enter0000 to cancel it.)

14. Exit Programming

Press [*] to exit programming, automatically quit after 10s no operand in struction.

15. Tamper alarm closed and opened

A. Cancel the alarm: enter [password] to cancel the alarm temporarily.

B. Close the Tamper alarm function: [swipe deleted card] 3 times.

C. Open the Tamper alarm function: [swipe added card] 3 times.

Jumper Setting of Access Controller

1. J1 of Active and Passive Output Signal Settings

When [1] & [2] connected, [COM] [NC] [NO] used as the switch quantity output signal.

When [2] & [3] connected, shorting circuit [COM] & [GND] as the active output signal.

2. J2 RESET Setting

Short circuit J2, then power on the controller can initialize the programming code. (Note: RESET Settings won't wipe data)

Date Copy

- [TXD] connect [RXD], [RXD] connect [TXD] to the same type access control.
- Press copy code [*] [13825256] [#] to the main access controller which with date.
- The green light flashing on both of the access controller.
- A beep sound on the main access controller, it means successful operation.

Transformation between Access Controller and Card Red

1. Access Control Model (Initial setting is Access Control Model)

- [GLED] connect to [GND]
- Power on the machine
- The green light flashing (don't waiting until it alarm), disconnected [GLED] & [GND].
- Alarm sound means the machine convert to access controller.

2. Card reader model (WG26 output)

- 1) [D0] connect to [GND]
- 2) Power on the machine
- 3) The green light flashing (don't waiting until it alarm), disconnected [D0] & [GND]
- 4) A alarm sound means the machine convert to WG26 card reader

3. Card reader model (WG34 output)

- 1) [D1] connect to [GND]
- 2) Power on the machine
- 3) The green light flashing (don't waiting until it alarm), disconnected [D1] & [GND]
- 4) A alarm sound means the machine convert to WG34 card reader

Wiring Diagram

1. Common power supply diagram

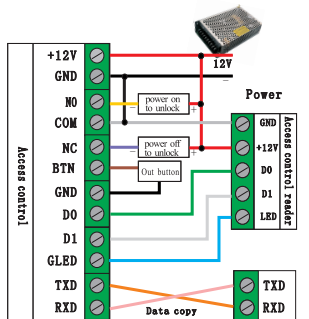


Figure 1

Note: Please change the operating mode when use access control machine as access control reader. TXD and RXD is data copying interface, two hosts can be copied each other, when access wiring should set two TXD and RXD reverse operation.

2. Special power connecting diagram

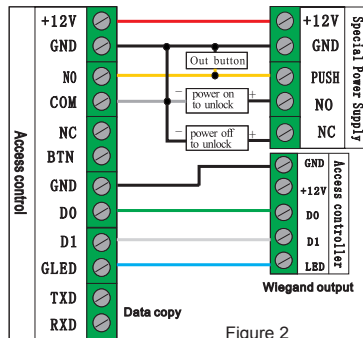


Figure 2

Note: Please change the operating mode when use access control machine as access control reader. TXD and RXD is data copying interface, two hosts can be copied each other, when access wiring should set two TXD and RXD reverse operation.

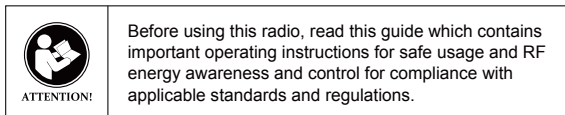
Wiring Diagram

Red	+12V	12V+DC regulated power input
Black	GND	12V-DC regulated power input
Yellow	NO	Relay normally open end (Connect positive electric lock)
Grey	COM	Relay public end, connect GND
Purple	NC	Relay close end (Connect positive electric lock)
Brown	BTN	Exit button one end (the other end connected GND)
Black	GND	12V-DC Regulated power input
Green	D0	WG D0
White	D1	WG D1
Blue	LED	Reader mode
Orange	TXD	Data copying interface
Pink	RXD	Data copying interface

Warm prompt

- * Please do not to repair the machine, if any problem, please return to factory.
- * Before installation on the wall, if you want to punch, please check wiring and line pipe carefully for unnecessary trouble, etc. When drilling or fixing lamp please use safety glasses.
- * It is without prior notice if instruction is likely to be different for product upgrades.

Warnings



Local Government Regulations

When the radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Reteless radio has a RF Exposure Product Label. Also, your user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

Compliance with RF Exposure Standards (If appropriate, Reference to the actual product's Safety Marking)

Your Reteless radio is designed and tested to comply with a number of national and International standards and guidelines (listed below) for human exposure to radio frequency electro-magnetic energy.

FCC ID

The FCC ID means: This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environments at operating duty factors of up to 50% talk-50% listen and is approved for occupational use only.

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 redesigned 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.



The CE marking means: Hereby, Henan Eshow Electronic Commerce Co.,Ltd. declares that the radio equipment type is in compliance with the RED Directive 2014/53/EU and the ROHS Directive 2011/65/EU and the WEEE Directive 2012/19/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.tivdio.com

IC ID

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

In terms of measuring RF energy for compliance with these exposure guidelines, your radio generates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

Avoid Choking Hazard



Small Parts. Not for children under 3 years.

Protect your hearing



- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.

Turn off your radio power in the following conditions:



- Turn off your radio before removing (installing) a battery or accessory or when charging battery.
- Turn off your radio when you are in a potentially hazardous environments: Near electrical blasting caps, in a blasting area, in explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
- Turn off your radio while taking on fuel or while parked at gasoline service stations.

To avoid electromagnetic interference and/or compatibility conflicts

- Turn off your radio in any facility where posted notices instruct you to do so, hospitals or health care facilities (Pacemakers, Hearing Aids and Other Medical
- Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Avoid Burns



Antennas

- Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.

Batteries (If appropriate)

- When the conductive material such as jewelry, keys or chains touch exposed terminals of the batteries, may complete an electrical circuit (short circuit the battery) and become hot to cause bodily injury such as burns. Exercise care in handling any battery, particularly when placing it inside a pocket, purse or other container with metal objects.

Long transmission (If appropriate)

- When the transceiver is used for long transmissions, the radiator and chassis will become hot.

Safety Operation



Forbid

- Do not use charger outdoors or in moist environments, use only in dry locations/conditions.
- Do not disassemble the charger, that may result in risk of electrical shock or fire.
- Do not operate the charger if it has been broken or damaged in any way.
- Do not place a portable radio in the area over an air bag or in the air bag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the air bag inflates.

To reduce risk

- Pull by the plug rather than the cord when disconnecting the charger.
- Unplug the charger from the AC outlet before attempting any maintenance or cleaning.
- Contact Reteless for assistance regarding repairs and service.