TRUDIAN WIEGAND
ACCESS CONTROLLER

# Trudian Wiegand Access Controller User Manual

**Contents**

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## Trudian

**Trudian Wiegand Access Controller**

**Specifications**

- **Input:** DC12V/500MA
- **Working Mode:** Networked, offline multi-mode selectable
- **Card Issuing Mode:** Management platform card issuing
- **Card Capacity:** 40000
- **Password Capacity:** 20000
- **Working Temperature:** -20°C to 70°C
- **Relative Humidity:** 20% to 93%
- **Size:** 162*105*38.5mm

## Product Overview

The Wiegand Access Controller is designed for access control applications with a capacity for up to 40000 cards and 20000 passwords. It operates on DC12V/500MA input power and supports networked and offline working modes. The device allows card issuing through a management platform and can function in various temperature and humidity conditions.

### Controller Interface Description

The controller interface includes connections for power input, Wiegand Readhead, indicator LED, locks, exit buttons, magnetic door detection, and dip switch settings. Each interface serves a specific function related to access control operations.

### System Wiring References

Refer to the user manual for detailed system wiring references to ensure proper installation and connection of the Wiegand Access  Controller.

### Multi-door Control Function Description

The multi-door control function allows for configuring the device for offline or TCP/IP LAN networking modes. Proper switch settings ensure the access control system operates as intended.

**Multi-door Control Configuration**

To configure multi-door control, add users and set permissions in the management center. Users can then access controlled areas by swiping cards, using the app, entering passwords, etc. Detailed controller management is essential for effective access control.

**FAQ**

- **Q: What should I do if the device is not recognize access cards?**
  - **A**: If the device is not recognizing access cards, check the card capacity limit and ensure that the cards are properly programmed in the management platform.

# Product Overview

**Parameter:**

| Input | DC12V/500MA |
|---|---|
| Working mode | networked, offline multi-mode selectable Card |
| issuing mode | management platform card issuing |
| Card capacity | 40000 |
| Password capacity | 20000 |
| Working temperature | -20℃~-70℃ |
| Relative humidity | 20%~93% |
| size | 162*105*38.5mm |

# Controller interface description
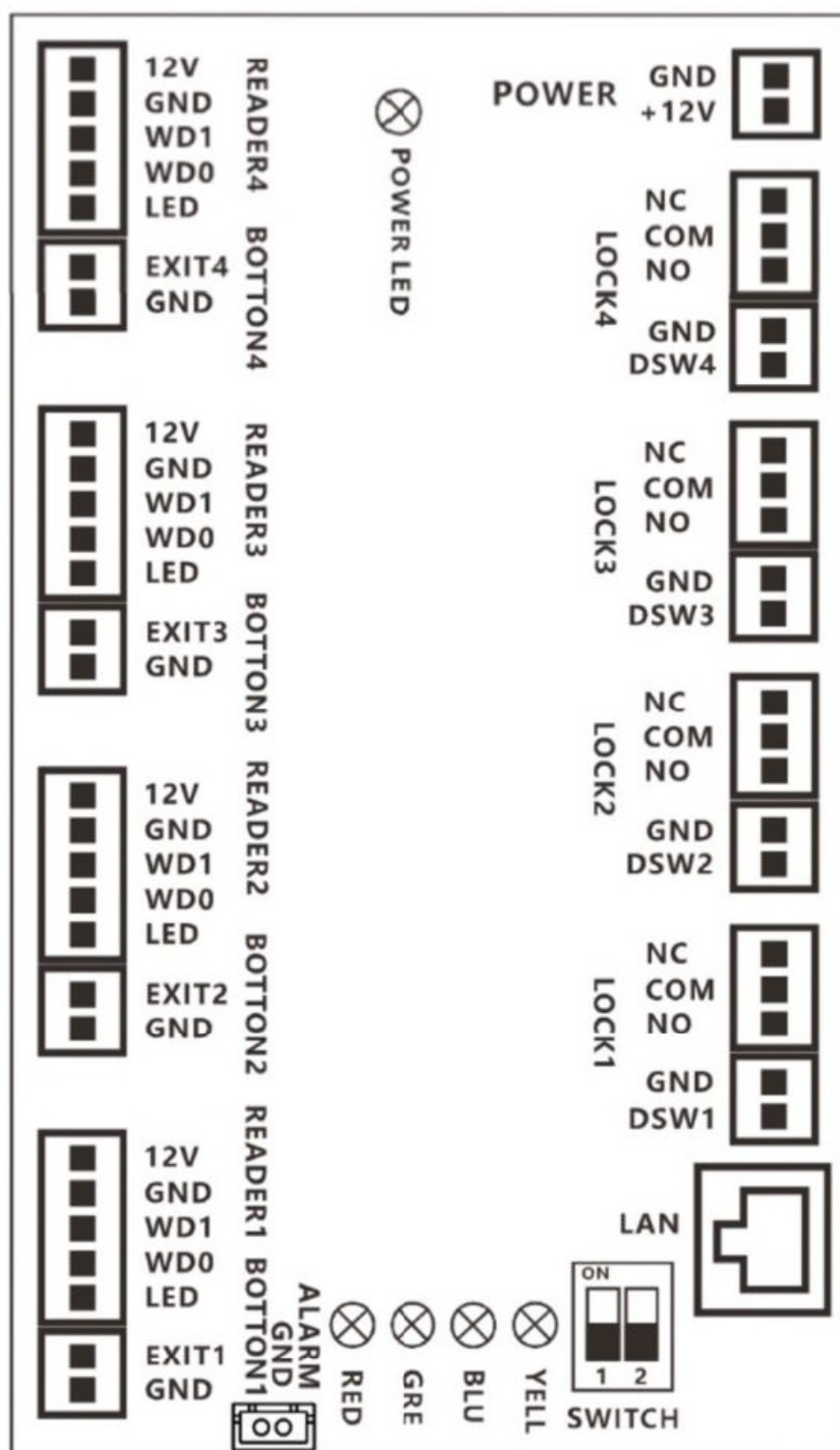
**Interface descripZon:**

| Interface Name | Function Description | Remarks | Interface Name | Function Description | Remarks |
|---|---|---|---|---|---|
| +12V | DV12V power input | | GND | groud | |
| 12V | Wegen Readhead Power Supply | | ALARM | Firefighting linkage signal | |
| GND | Wegen Reading Headl and | A total of 4 groups o signals f or 4 redheads | NO | Relays normally open | Total of 4 signals for 4 l ocks |
| D1 | Wegen Readhead D1 | | COM | Relay Common | |
| D0 | Wegen Readhead D0 | | NC | Relay normally cl osed terminal | |
| LED | Indicator Synchronizati on signal | | | | |

| EXITx | Exit button signal | Total of 4 signals for 4 ga tes | DSWx | Door magnetic d etection signal | Total of 4 signals for 4 gates |
|---|---|---|---|---|---|
| GND | Go out button ground | | GND | Magnetic door d etection ground | |

SW1 dip switch: (dip code does not dial means 0, dip code dial to ON means 1)
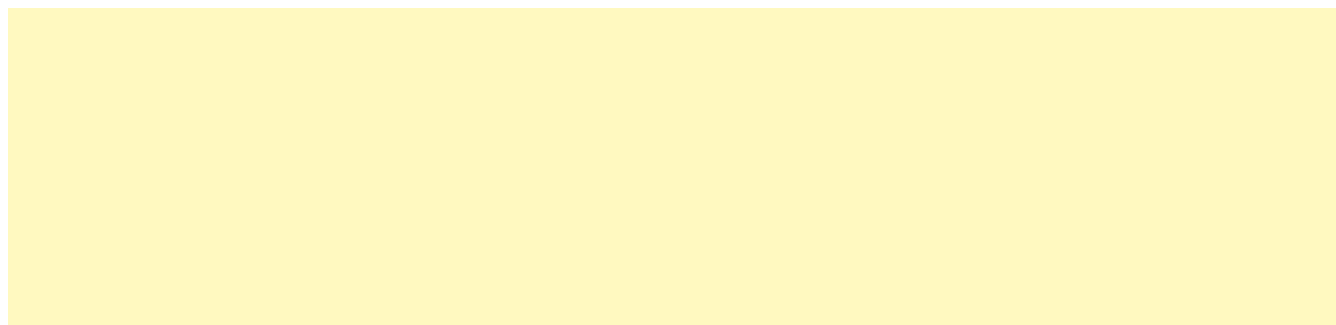
00: TCP/IP LAN networking 01: Offline

**System wiring references**
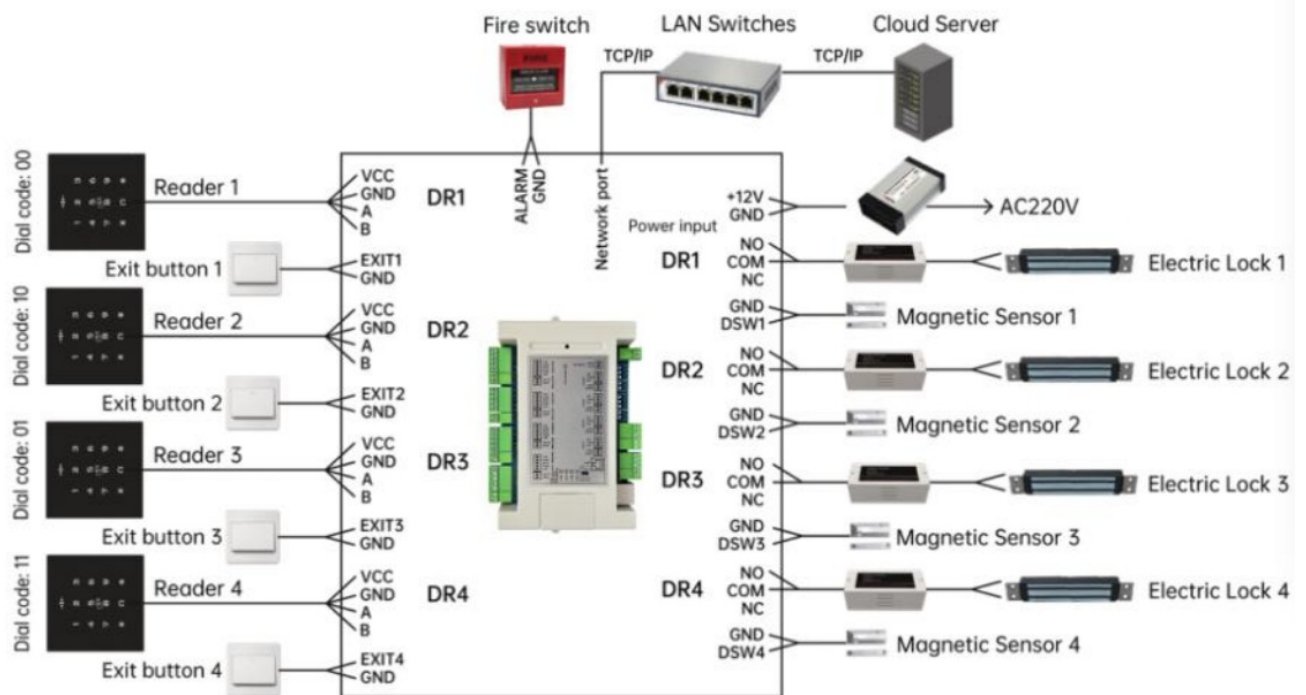
**Multi-door Controll Function Description**

**Switch Setting**

| Switch Setting | Indicates |
|---|---|
| ON<br>1  2<br>01 | Offline working |
| ON<br>1  2<br>00 | TCP/IP LAN networking |

**Startup status:**

**TCP/IP LAN networking**: When the power is on, the blue LED flashes, indicating that it is looking for the network. When normally connected to the network, the buzzer "tick ~ tick" two short beeps, the LED red light is always on,

indicating that the cloud access control has started normally; when 20 seconds later is not normally connected to the network, the buzzer "tick tick tick" three beeps, the LED red light is always on, indicating Connection network failure, the controller forced to start. After the controller is normally connected to the network, the LED green light will flash once every 20 seconds, indicating that there is data and the cloud platform interactive communication.
**Offline working:** When the power is started, the buzzer "beep" a short beep, the LED red light is always on, indicating that the cloud access control has started normally.

**Unlock status:**

When the lock is opened legally, the buzzer of the controller and the reading head will be "beep" at the same time, accompanied by a green LED flashing once, and the corresponding relay will be jumped, which means that the lock is opened successfully; when the lock is opened illegally, the buzzer of the controller and the reading head will be "beep beep beep" three times at the same time, accompanied by a red LED flashing three times, which means that the lock is opened and failed.

**Unlock method:**

The device can be unlocked by swipe card, remote APP, out door button, management center platform remote, cloud server platform remote, password (optional), and many other ways.

**Multi-door Control Configuration**

**Management Center Add Controller**

Connect the controller to the PC with a network cable, open the controller management software, and click Add Controller by Search. At this time, the management software can automatically search for the multi–door controllers connected to the LAN and assign them to the corresponding IP. Then configure the controller to the corresponding area. Click to confirm that the controller can be bound to the corresponding regional access control.

| Add Found To Database | Search | Configure | Close | | | |
|---|---|---|---|---|---|---|
| **ID** | **SN** | **IP** | **Mask** | **Gateway** | **PORT** | **MACAddr** | **PC IPAddress Note** |
| 1 | 29374830982 | 191.897.1.1 | 255.255.0.0 | 192.168.1.1 | 6000 | 00-26-9E-26-87-8C | 192.168.1.1 |

**Add the user and configure his permissions**

In the management center, add users to configure the rights of thecorresponding area controllers for them. After the configuration is completed, users can open the door in the room where these controllers are installed by swipe

card, APP, password, etc. More detailed controller management and

**Add user**



**Configuration Permissions:**



**Documents / Resources**

**Trudian Wiegand Access Controller** [pdf] User Manual
Wiegand Access Controller, Access Controller, Controller

## References

- **User Manual**