

## Manual for Access Control System

Version: 4.0

2015-1-1

### Introduction

This access control is one intelligent device that help you to manage the whole system especially for the maindoor use.

You can connect this access control with the electromagnetic lock or electric strike for the maindoor use. When the guest enter the maindoor, they can touch their guest card to enter the hotel. There is valid time inside, when the guest check out or the guest card is invalid, the guest card can not work on the access control device.

Support Guest card/Master Card, Building Card, Floor Card, Emergency Card, Adjust Time Card, Guest Card etc.

You can set the access control as "Building Lock", "Floor Lock" or the "Maindoor lock".



- ◆ No need extra software.
- ◆ Support Mifare S50 card.
- ◆ Work with the lock management software together.
- ◆ Support the keycard issued from the lock management software.
- ◆ Easy and convenient to make entrance management.
- ◆ Advanced Microwave technology for the communication.
- ◆ User-friendly interface, practical functions, easy to operate, which will improve more for the management efficiency.
- ◆ Fast reading speed.
- ◆ Work with 12VDC external power.
- ◆ Reading distance: 3-5CM
- ◆ No affect even installed on metal door plate.
- ◆ Support Wiegand 26 protocol.

## I. Summarization

### Introduction:

This access control device is specially designed based on our lock management system, it supports the key card issued from the lock management software and reach to the specific floor under the management mode. This improved much for the security of hotel management.

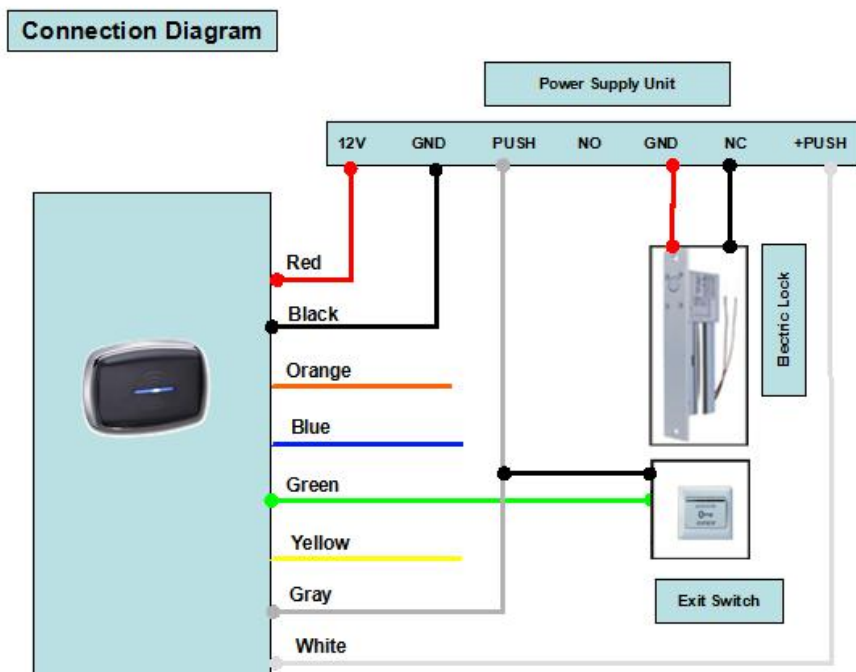
### 2.Characteristics:

- Support Mifare card(NXP Philip chip S50 card)
- Reading distance: 3-5CM.
- No need extra software, it support the keycard issued from the lock management software.
- Work as access control to connect with the electromagnetic lock, electric strike et.
- One signal input for switch.
- Support Wiegand 26 standard communication protocol, convenient to connect with the traditional controller.

### 3.Technical Parameters

Power Supply	12VDC
Working current	100mA
Card Type	Mifare card(Model: S50)
Reading distance	3~5cm
Input	Press Switch signal
Output	1group joint (NO/NC/COM)、Wiegand 26
Reader Size	92mm x 63mmx 21.60mm
Environment	Working temperature: -10~70 degree Storage temperature: -25~125 degree Working humidity: 5%~95%

## II. Connection Diagram



### Connection Description:

Name	Color	Connection
+12V	Red	Anode for power 9—12VDC
GND	Black	Cathode for power
DATA0	Orange	Wiegand port data 0 output
DATA1	Blue	Wiegand port data 1 output
SW	Green	Open switch signal input
NC	Yellow	Always close output port. To connect the electric lock(power off to open)
NO	Gray	Always open output port. To connect the electric lock(power on to open)
COM	White	Public port, power anode for electric lock

Usually we suggest connecting the access control with the special power supply that has the signal output.

### 2.1 Application

You can connect the access control with the electromagnetic lock, electric strike or the electric drop bot . There are two types for such electric locks:

1. Power on to open: when there is power signal to the lock, the lock will open automatically. (The latch will draw back)
2. Power off to open: when the power is off, the lock will open automatically. (The latch will draw back).

3. Usually for the lock ( power off to open). The connection is:

Anode: connect with “NC”(Always close output port).

Cathode: connect with GND.

When the power is off, then there is no power in NC port, the lock will open automatically.

4. Usually for the lock ( power on to open). The connection is:

Anode: connect with “NO”(Always open output port).

Cathode: connect with GND.

When the power is on, then there is power output in NO port, the lock will open automatically.

**Notice:**

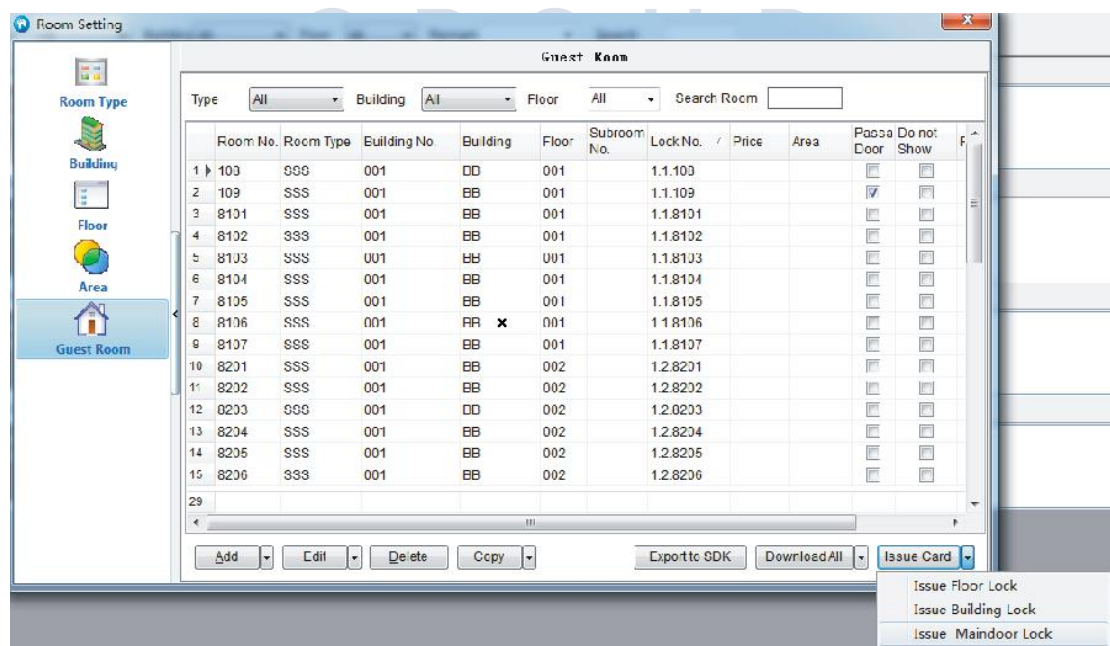
- » After you touch the valid card, the electric lock will open, after 15 seconds, it will close automatically!
- » You can connect the exit switch to control the electric lock, support dry contact or TTL level input.
- » Working current is around 0.5A, so the cable that connect the lock with the access control shall be over 0.5mm<sup>2</sup> please do not use the Ethernet cable.

**Application:**

Usually this access control is used in the maindoor, any guest that has the valid card can touch the card on the reader to enter the building.

1. For maindoor use: you can set the access control like the door locks. There are three types you can set for the access control:

**Floor Lock, Building Lock, Maindoor Lock**



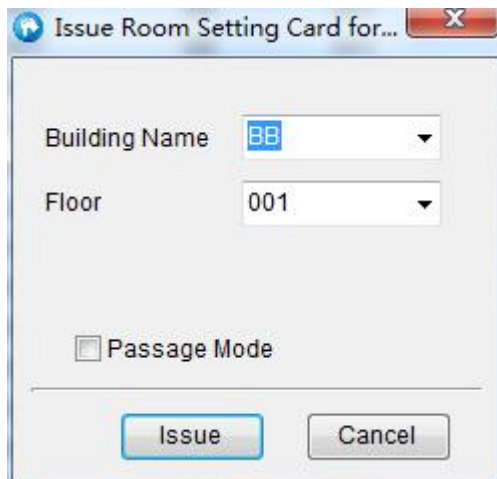
**Setting Operation:**

1. Find the “Room Information” in the “Basic Data” in the lock management software(As

above).

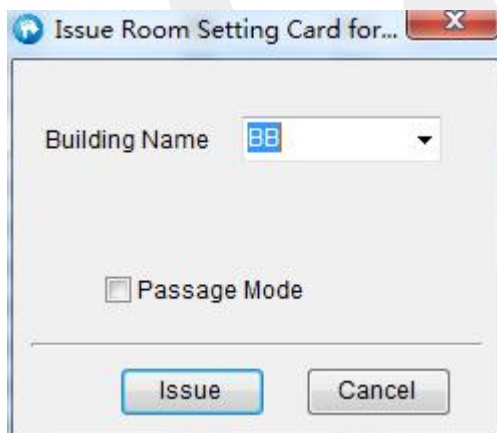
2. Click the triangle icon beside “Issue Card” button, there are 3 type locks to choose:

**Issue Floor Lock:** you can issue one card to touch the access control, then the access control will be set as one floor lock with appointed floor. The cards that belong to the appointed floor can work on this access control.



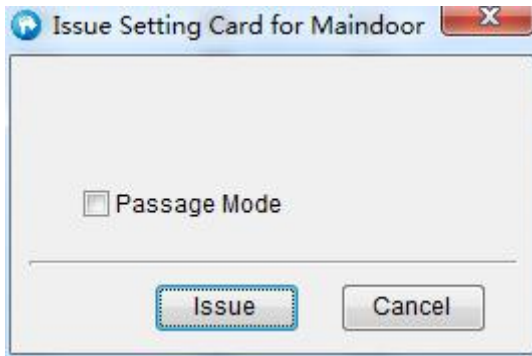
The screenshot shows a dialog box titled "Issue Room Setting Card for...". It contains two dropdown menus: "Building Name" with the value "BB" and "Floor" with the value "001". Below these is a checkbox labeled "Passage Mode" which is currently unchecked. At the bottom of the dialog are two buttons: "Issue" and "Cancel".

**Issue Building Lock:** You can issue one card to touch the access control, then the access control will be set as one building lock with appointed floor. The cards that belong to the appointed building can work on this access control.



The screenshot shows a dialog box titled "Issue Room Setting Card for...". It contains one dropdown menu: "Building Name" with the value "BB". Below this is a checkbox labeled "Passage Mode" which is currently unchecked. At the bottom of the dialog are two buttons: "Issue" and "Cancel".

**Issue Maindoor Lock:** You can issue one card to touch the access control, then the access control will be set as one building lock with appointed floor. Any cards that belong to the hotel can work on this access control.

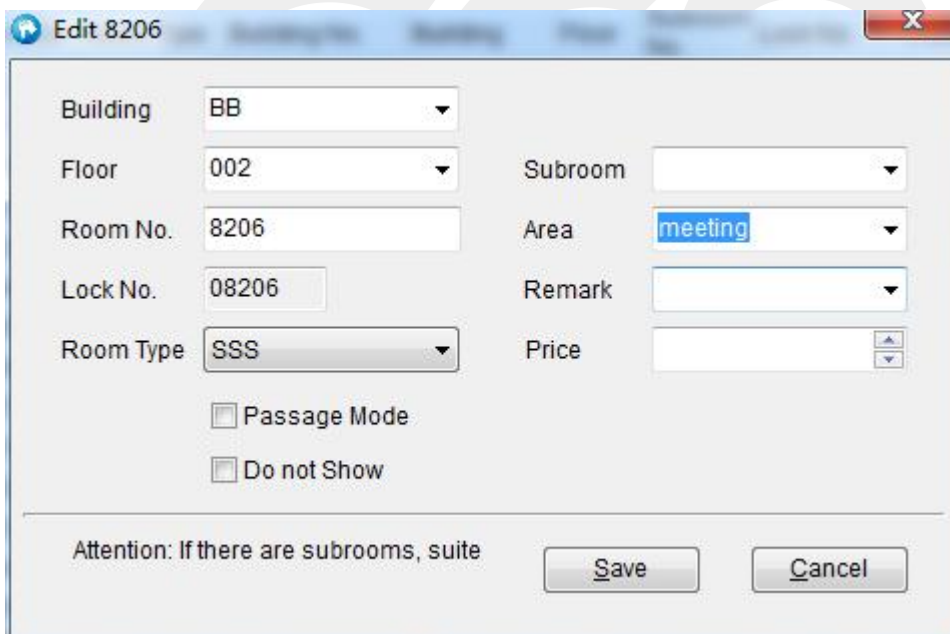


**Notice:**

Before you issue the card to set the “Floor Lock”/”Building Lock”/”Maindoor Lock”, you shall first touch the Authorization card to the access control.

**Application 2:**

If the access control is installed in some special area, you can also set the access control with the same operation as the door locks. You can also add Area in the access control.



**For example:**

Issue one Room Setting Card(choose one special room No. for easy memory).

Then touch the Authorization card—Room Setting Card—Adjust Time Card to the Access control, then the access control will be set as one lock in special area.

Then when you make check in for guest, you can choose the room number for the access control or choose the free area name.

So the guest card can open its room and the access control at the same time.!

Check in

Bill No. B1611210001 Guest Type Individual Guest  Reservation

Guest Name ABD Charge Type Wholeday Room Staying Day 1 Available Floors ...

Voucher Type ID Card Voucher No. Check in 2016/11/21 20:44:57 Check out 2016/11/22 12:05:00

Guestroom Information

	Room No.	Card Quantity	Family Room	Free Area1	Free Area2	Room Type	Price	Building	Floor	Remark
1 ▶	8102	1				SSS		BB	001	
1	Total Issue:		1							

Add Room Delete Unified Modify Issue Card Cancel

There is valid time inside the card, after the valid time is over, the card will not work on the reader.

