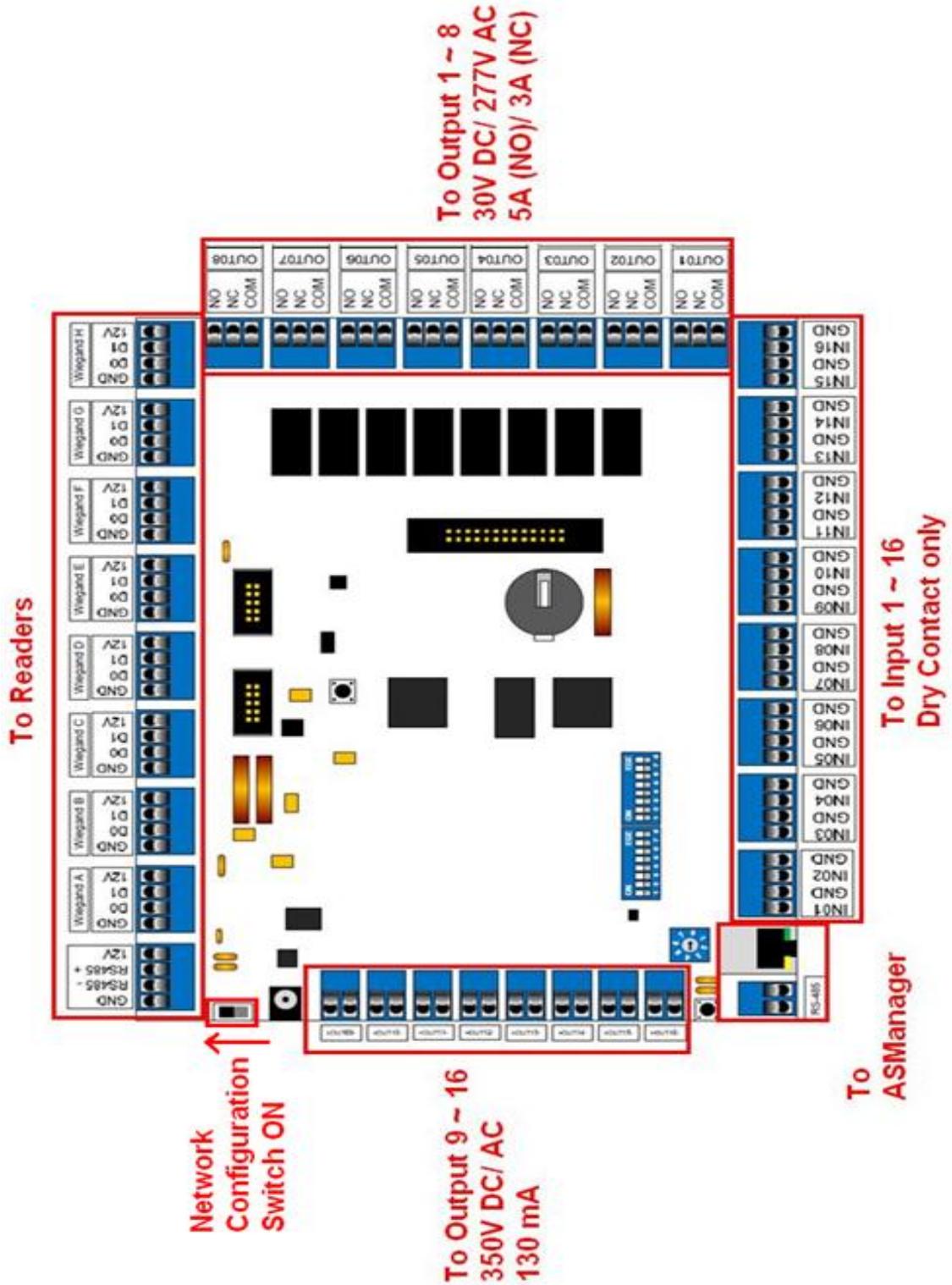


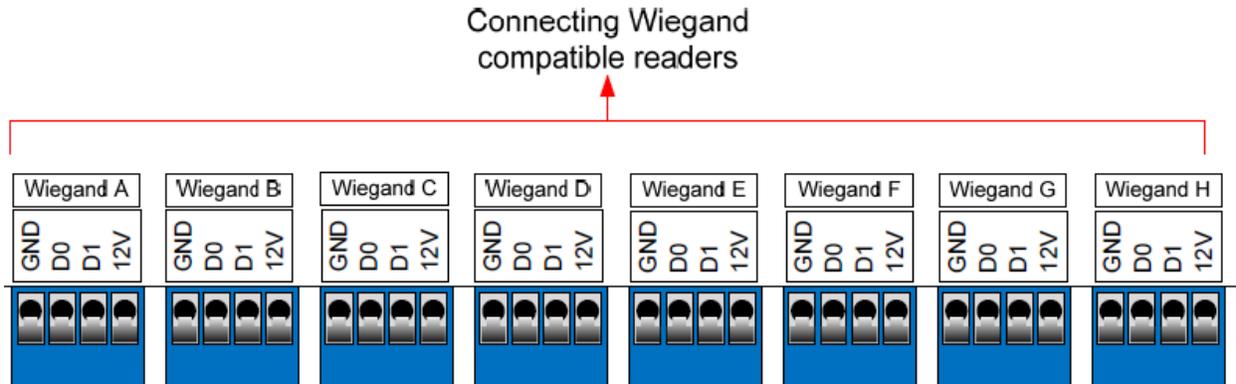
5.5 AS400

5.5.1 Layout



5.5.2 Wiegand Reader Connection

- ✓ AS400 supports up to eight Wiegand 26 ~ 64bit readers
- ✓ Wiegand connection has a distance limitation of 30m (~ 100ft)



Pin	Function
GND	GND of the Power Supply
D0	Wiegand Data 0
D1	Wiegand Data 1
12V	12V Power Supply

1. Refer to reader's installation guide for wiring information.

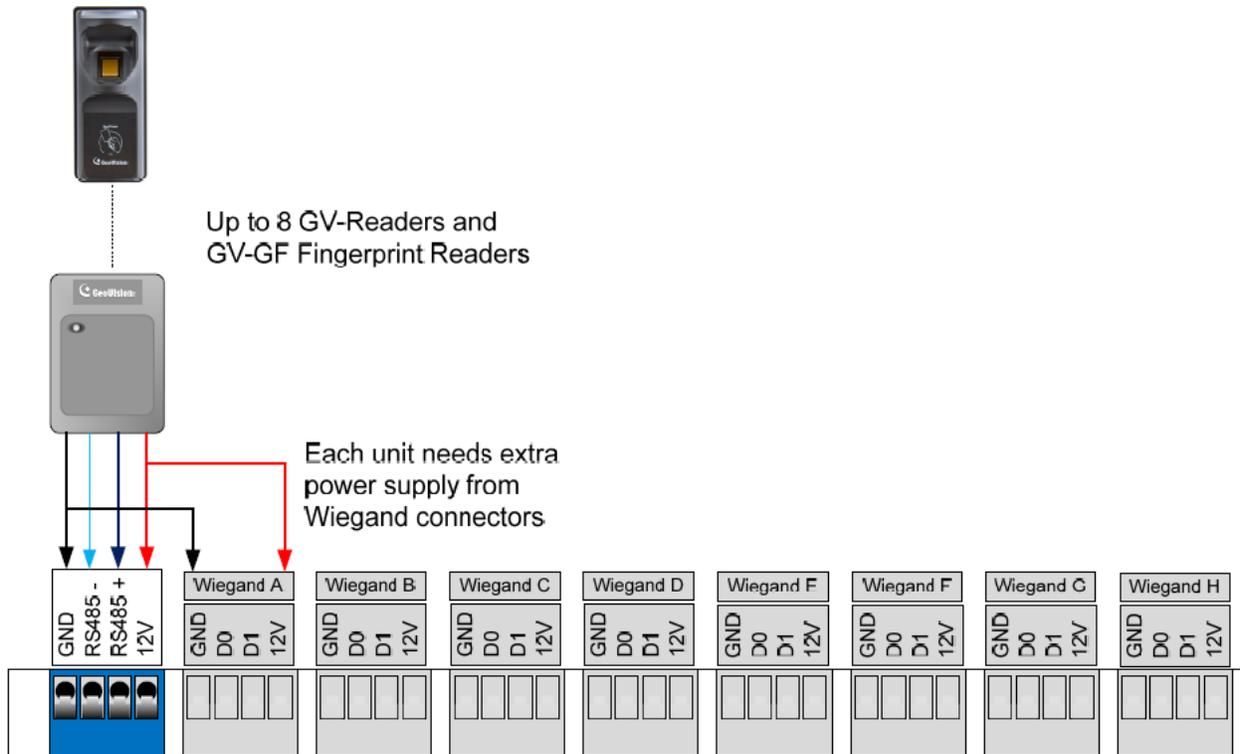
GV-Reader/ GV-Fingerprint Reader

Wire	Red	Black	White	Green
Function	12V	GND	Data-1	Data-0

2. Connect reader(s) to the Wiegand ports in order from A to H.
- ✓ For detail instruction, refer to p.43 of ASController Installation Guide

5.5.3 RS485 Reader Connection

- ✓ GV-Fingerprint reader has to be connected via RS485 in order to sync with ASManager



1. Refer to reader's installation guide for wiring information.

GV-Reader/ GV-Fingerprint Reader

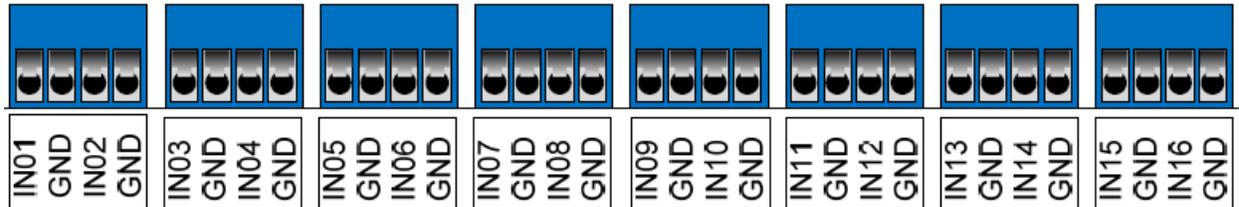
Electric Wires on GV-Reader	RS-485 on GV-AS400
Red	12V
Blue	RS-485 +
Light Blue	RS-485 -
Black	GND

2. Connect reader(s) to the RS485 ports.
3. For multiple RS485 reader connections, combine all RS485+ and RS485- wires from each reader, but connect 12V and GND separately into each Wiegand port as shown above.

- ✓ For detail instruction, refer to p.44 of ASController Installation Guide

5.5.4 Input Connection

- ✓ AS400 supports dry contact inputs only

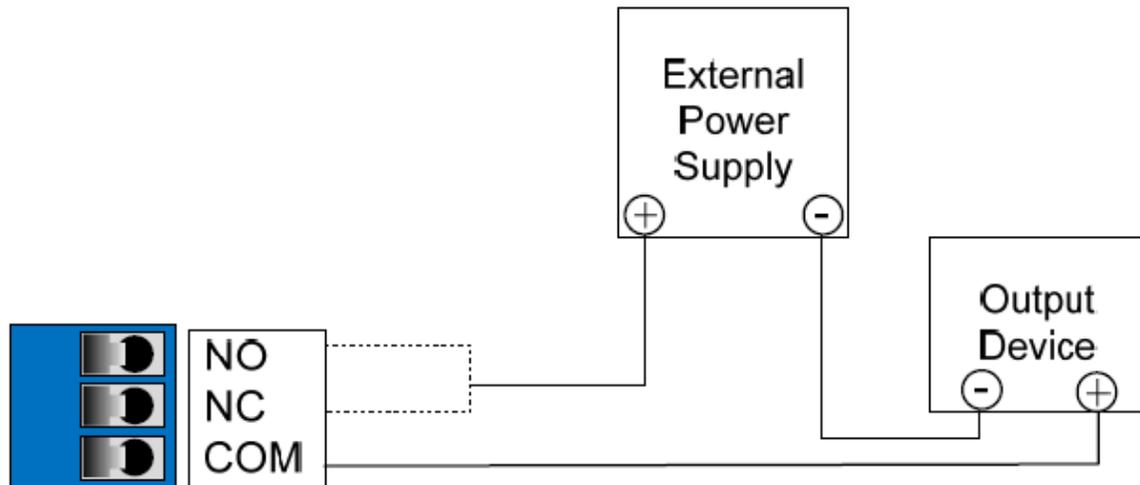


1. Connect each input accordingly, such as door exit button, motion sensor, door contacts..etc.
2. Label each input for verifications.
3. Verify LED indicator on board for each input to verify activation.
4. Adjust the NO/NC switch accordingly for each input.



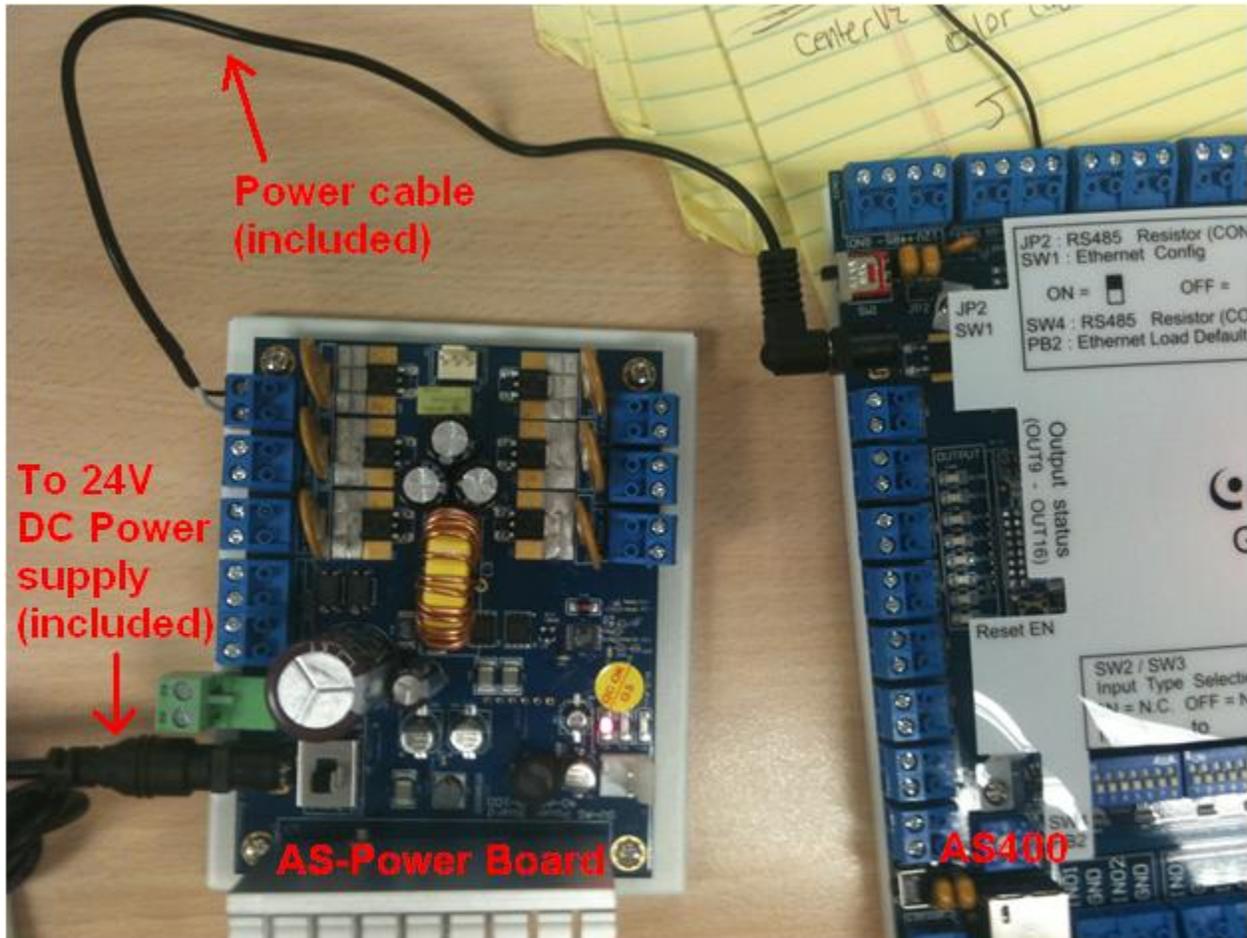
- ✓ For detail instruction, refer to p.45 of ASController Installation Guide

5.5.5 Output Connection



1. Connect output devices that require external power supply to Output 1 ~ 8.
 2. Connect output devices that can be triggered by AS400's internal 12V DC to output 9 ~ 16.
- ✓ Refer to section 5.5.1 for output maximum current and voltage restrictions
 - ✓ For detail instruction, refer to p.46 of ASController Installation Guide

5.5.6 Power Connection



1. Connect 12V output on AS-Power Board to AS400 power input with 2 wire power cable (+/-) (included).
2. Connect AS-Power Board to any 110V AC wall outlet via 24V DC Power Supply block (included).

✓ *Alternatively, AS400 can also be powered by a 12V DC Power supply*

- ✓ For detail instruction, refer to p.49 of ASController Installation Guide

5.5.7 Web Configuration

1. Open Internet Explorer, type in default IP address for AS400 <http://192.168.0.100>.
2. Enter default User Name: **admin** Password: **admin** then click “**OK**”.
3. Change the **IP address**, **Subnet Mask**, **Default Gateway**, and **Domain Name Server** as necessary to match actual network properties.

GeoVision

Basic Setting

- Network Setting
- Other Setting
- Firmware Update
- Account Setting

Advance Setting

- Function Setting
- Parameter Setting
- Time Setting
- Input Setting
- Output Setting
- Wiegand Setting

Network Configuration

Machine Name

Machine Name AS

DHCP Client:

Enable

Disable

IP Address: 192 . 168 . 0 . 21

Subnet Mask: 255 . 255 . 252 . 0

Default Gateway: 192 . 168 . 0 . 1

Domain Name Server: 192 . 168 . 0 . 1

Domain Name Service:

4. Click “**Submit**”.
5. Select “**Function Setting**” under Advance Setting.

GeoVision

Basic Setting

- Network Setting
- Other Setting
- Firmware Update
- Account Setting

Advance Setting

- **Function Setting**
- Parameter Setting
- Time Setting
- Input Setting

AS400 Function Configuration

ID

ID 1

Door/Gate A

Function Door Control

Authentication Mode Local Unlock Mode

Door/Gate B

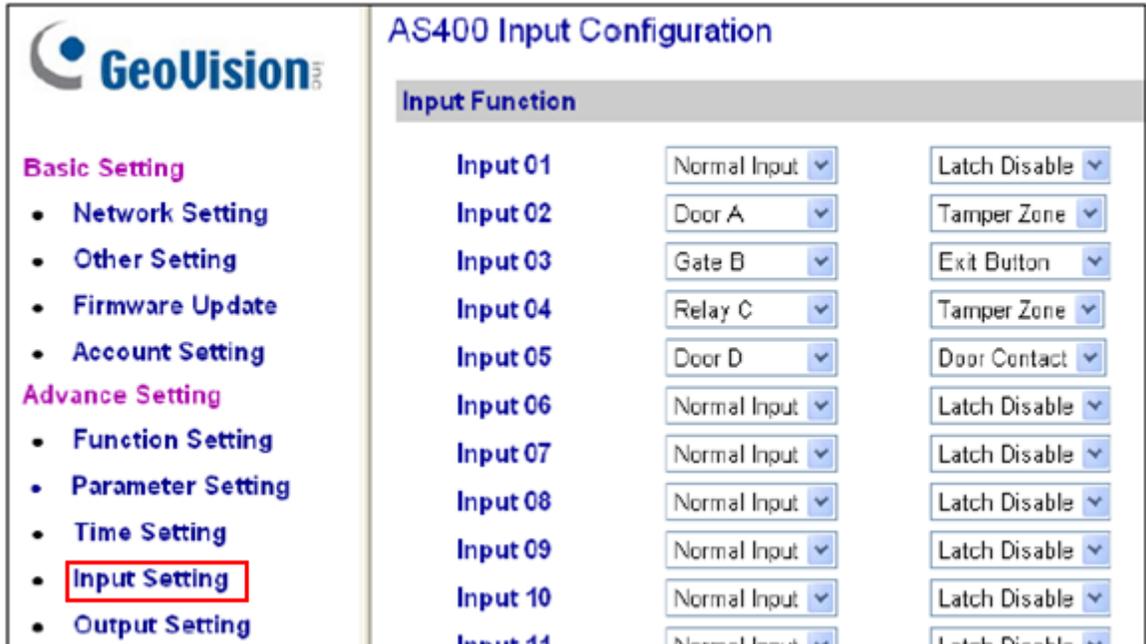
Function Parking Control

Authentication Mode Local Lock Mode

Door/Gate C

6. Enter “**1**” in the ID box
- ✓ For multiple controllers, increase ID number accordingly

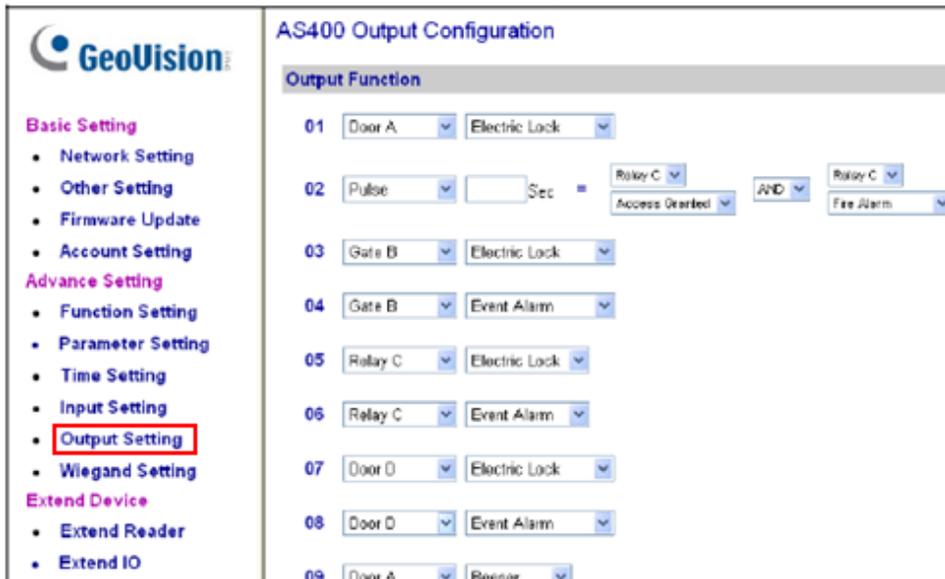
7. Click “**Submit**”.
8. Select “**Input Setting**” under Advance Setting.



9. Configure each **Input Type/Function** and designate its corresponding door or relay output accordingly.
10. Click “**Submit**”.

✓ Refer to section 5.5.4 for input connection

11. Select “**Output Setting**” under Advance Setting.



12. Configure each **Output Type/Function** and designate its corresponding door or relay output accordingly.
13. Click “**Submit**”.

✓ Refer to section 5.5.5 for output connection

14. Select “**Wiegand Setting**” under Advance Setting.

AS400 Wiegand Configuration

Wiegand Function

Wiegand A	Door/Gate A Entry
Wiegand B	Door/Gate A Exit
Wiegand C	Door/Gate B Entry
Wiegand D	Door/Gate B Exit
Wiegand E	Door/Gate C Entry
Wiegand F	Door/Gate C Exit
Wiegand G	Door/Gate D Entry
Wiegand H	Door/Gate D Exit

15. Map the Wiegand inputs with their corresponding doors and directions.

16. Click “**Submit**”.

17. When card or fingerprint readers are connected via RS485, select “**Extend Reader**” under Extend Device.

AS400 Extend Reader Configuration

GV-Reader Function

Reader	Function	Setting Status
<input type="checkbox"/> GV-Reader ID 0	No Function	
<input type="checkbox"/> GV-Reader ID 1	No Function	
<input type="checkbox"/> GV-Reader ID 2	No Function	
<input type="checkbox"/> GV-Reader ID 3	No Function	
<input type="checkbox"/> GV-Reader ID 4	No Function	
<input type="checkbox"/> GV-Reader ID 5	No Function	
<input type="checkbox"/> GV-Reader ID 6	No Function	
<input type="checkbox"/> GV-Reader ID 7	No Function	

GeoFinger Function

Serial Number	Function	Setting Status
<input checked="" type="checkbox"/> 248000002	Door/Gate A Entry	
<input type="checkbox"/>	No Function	
<input type="checkbox"/>	No Function	
<input type="checkbox"/>	No Function	

18. Enable and define each GV-Reader with its respective ID number.

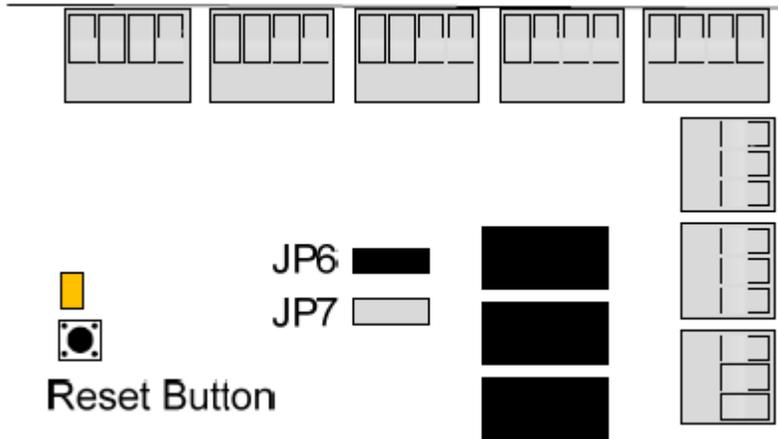
19. Enable and define each fingerprint reader by typing in the **Serial Number** of each reader.

20. Click “**Submit**” to detect the readers, a green mark should appear next to each added reader.

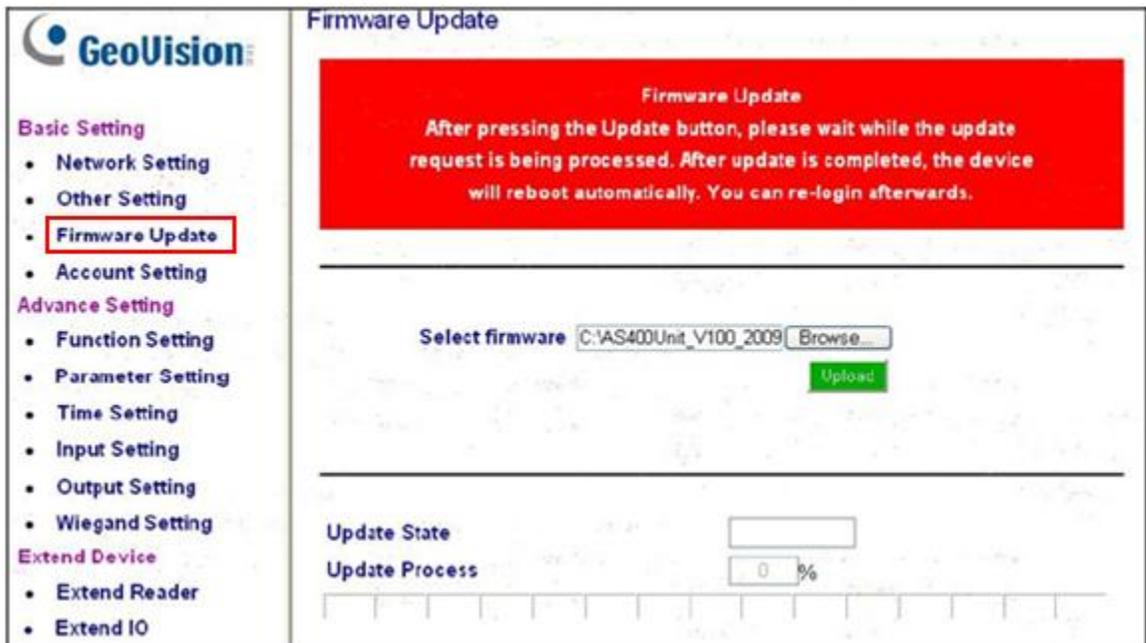
✓ For detail instruction, refer to p.56 of ASController Installation Guide

5.5.8 Firmware Upgrade

1. Ensure a Jumper is connected on JP7 as shown below. In case a Jumper is not available, it is necessary to plug in AS-Keypad in order to perform firmware upgrade.



2. Download the newest firmware for AS400 from http://www.geovision.com.tw/english/5_3_as200.asp and save it onto the desktop.
3. On AS400 web interface, select “**Firmware Update**” under Basic Setting.



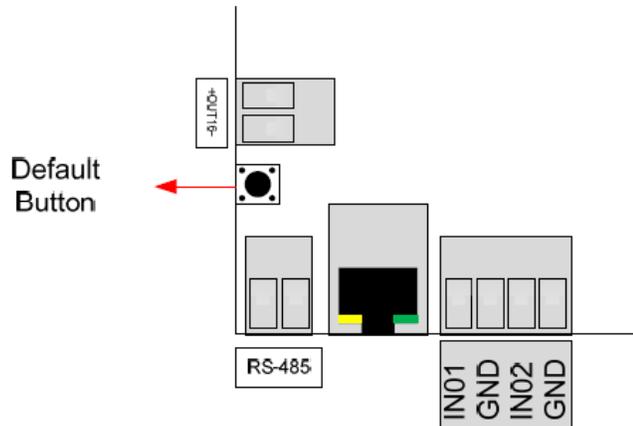
4. Click “**Browse**” and locate the new firmware from desktop.
 5. Click “**Upload**” to begin the update.
 6. Click “**OK**” to reboot AS400 after the update.
- ✓ For detail instruction, refer to p.54 of ASController Installation Guide



5.5.9 Restore Default Settings

To restore Basic Settings to factory defaults:

Press the **Default** button, between the output 16 and RS-485 connectors, for 3 seconds. After this it may take up to 3 minutes to restore Basic Settings of GV-AS400 to default factory values.



To restore All Settings to factory defaults:

1. Remove the jumper cap from **JP6** to **JP7**.
2. Press the **Reset** button in the upper center of GV-AS400 circuit board. All input LEDs should light on.
3. Remove the jumper cap from **JP7** back to **JP6**.

After above steps, it may take up to 3 minutes to restore all settings to factory default values. If GV-ASKeypad is connected, the message “Memory Test on Keypad” will appear indicating the default loading is in progress.

