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 $1 \sim 8$.
- 2. Connect output devices that can be triggered by AS400's internal 12V DC to output $9 \sim 16$.
- ✓ 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 <u>http://192.168.0.100</u>.
- 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.

	Network Configuration					
	Machine Name					
Basic Setting Network Setting 	Machine Name DHCP Client:	AS				_
Other SettingFirmware Update	⊖ Enable					_
Account Setting	Oisable					
Advance Setting Function Setting 	IP Address:	192	168	. 0	21	
Parameter Setting	Subnet Mask:	255	255	252	0	
Time Setting	Default Gateway:	192	168	0	1	
Input Setting	Domain Name Server:	192	168	0	1	
Output SettingWiegand Setting	Domain Name Service:]

- 4. Click "Submit".
- 5. Select "Function Setting" under Advance Setting.

(Coollision	AS400 Function Configuration		
Ceouisions	ID		
Basic Setting	ID	1	
Network Setting	Door/Gate A		
 Other Setting Firmware Update Account Setting 	Function Authentication Mode	Door Control 🔽 Local Unlock Mode	
Advance Setting	Door/Gate B		
 Function Setting Parameter Setting Time Setting 	Function Authentication Mode	Parking Control 🔽 Local Lock Mode	
Input Setting	Door/Gate C		
nton "1" in the ID how			

- 6. Enter "**1**" in the ID box
 - ✓ For multiple controllers, increase ID number accordingly
- 7. Click "Submit".
- 8. Select "Input Setting" under Advance Setting.

(Caaliisian	AS400 Input Co	onfiguration	
Ceovisions	Input Function		
Basic Setting	Input 01	Normal Input 💌	Latch Disable 💌
 Network Setting 	Input 02	Door A	Tamper Zone 🔽
Other Setting	Input 03	Gate B 🛛 🔽	Exit Button 💌
Firmware Update	Input 04	Relay C 🛛 🔽	Tamper Zone 💌
Account Setting	Input 05	Door D 🖌	Door Contact 🛩
Advance Setting	Input 06	Normal Input 💌	Latch Disable 🛩
 Function Setting 	Input 07	Normal Input 💌	Latch Disable 🛩
 Parameter Setting 	Input 08	Normal Input 🔽	Latch Disable 🛩
Time Setting	Input 09	Normal Input 💌	Latch Disable 💌
 Input Setting 	Input 10	Normal Input 💌	Latch Disable 💙
 Output Setting 	Input 11	Normal logist	Lateb Dicable M

- 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.

(Coollision	AS400 Output Configuration				
Geovision	Output Function				
Basic Setting	01 Door A 🛛 Electric Lock				
 Network Setting 					
 Other Setting 	02 Pulse Sec = Rolay C M Rolay C M				
 Firmware Update 	Access Gearted V	~			
 Account Setting 	03 Gate B 💌 Electric Lock 💌				
Advance Setting					
 Function Setting 	04 Gate B 👻 Event Alarm 😁				
 Parameter Setting 					
 Time Setting 	05 Relay C M Electric Lock				
 Input Setting 	06 Relay C 💌 Event Alarm 💌				
 Output Setting 					
 Wiegand Setting 	07 Door D 💌 Electric Lock 💌				
Extend Device					
Extend Reader	08 Door D 🛛 Event Alarm				
Extend IO	00 David W Press				

- 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		
Basic Setting	Wiegand A	Door/Gate A Entry 💌	
Network SettingOther Setting	Wiegand B	Door/Gate A Exit 💌	
 Firmware Update Account Setting 	Wiegand C	Door/Gate B Entry 💌	
Advance Setting	Wiegand D	Door/Gate B Exit 💌	
 Function Setting Parameter Setting 	Wiegand E	Door/Gate C Entry 💌	
Time SettingInput Setting	Wiegand F	Door/Gate C Exit 💌	
Output Setting	Wiegand G	Door/Gate D Entry 💌	
Wiegand Setting Extend Device	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.

• Coollision	AS400	Extend Reader Co	onfiguration		
CCONSION:	GV-Rea	ader Function			
Basic Setting		Reader	Function		Setting Status
Network Setting	10	GV-Reader ID 0	No Function	•	
Other Setting		GV-Reader ID 1	No Function	•	
Firmware Update	6	GV-Reader ID 2	No Function	•	
Account Setting	10	GV-Reader ID 3	No Function	+	
Advance Setting		GV-Reader ID 4	No Function	-	
 Function Setting 		GV-Reader ID 5	No Function	-	
Parameter Setting	10	GV-Reader ID 6	No Function	•	
 Time Setting 	10	GV-Reader ID 7	No Function	•	
Input Setting	0	-			
Output Setting	Georin	iger Function			
Wiegand Setting		Serial Number	Function		Setting Status
Extend Device		2480000002	Door/Gate A Entry	-	
Extend Reader			No Function		
Extend IO	10		No Function	-	
	E1	1	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 a 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.

Paris Catting	Firmware Update
Network Setting Other Setting	request is being processed. After update is completed, the device will reboot automatically. You can re-login afterwards.
Firmware Update Account Setting	
Advance Setting	
 Function Setting 	Select firmware C:'AS400Unit_V100_2009 Browse
Parameter Setting	Upload
Time Setting	the second se
 Input Setting 	
 Output Setting 	
Wiegand Setting	Update State
Extend Device	Update Process 0 %
Extend Reader Extend IO	

5. Click "**Upload**" to begin the update.

4.

- 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.
- 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.

