

Quick Start Guide

GV-AS / EV Controller



Thank you for purchasing GV-AS / EV Controller (GV-AS100 / AS110 / AS120 / AS210 / AS400 / AS410 / AS810 and GV-EV48). This guide is designed to assist the new user in getting immediate results from the controllers. For advanced information on how to use the GV-AS100 / AS110 / AS120 / AS210 / AS400 / AS410 / AS810 and GV-EV48, please refer to GV-AS / EV Controller User's Manual on Software DVD.



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Important Note for Maintaining Power Supply

To make sure GV-AS / EV Controllers can function properly during a power outage, be sure to replace the internal battery on the controllers when needed. For GV-AS210 / 400 / 410 / 810, it is also recommended to install a backup battery.

Refer to the following sections in *GV-AS Controller User Manual* for instructions on how to install a backup battery:

- GV-AS210: See 4.2.4 Connecting Backup Battery
- GV-AS400: See 5.6.4 Connecting Backup Battery
- GV-AS410 / 810: See 6.2.4 Connecting Backup Battery

Replacing Mercury Battery (GV-AS100 / AS400)

For GV-AS100 / AS400, you can replace the mercury battery on your own when you see low battery messages and icons in GV-ASManager.

Replacing Lithium Battery (GV-AS110 / AS120 / AS210 / AS410 / AS810 / EV48)

When GV-AS110 / AS120 / AS210 / AS410 / AS810 / EV48 runs out of battery, the local time on the controller will be reverted back to 1999/12/31. The controller time can be found on the Web interface of the controller on the Time Setting page and in the Access Monitor / Alarm Monitor / Event Monitor of GV-ASManager.



When you see the controller year shown as 1999 or 2000, disconnect the controller from power and reconnect it to power. If the year is still shown as 1999 or 2000, the controller battery needs to be replaced. When this occurs, please contact your sales representative and send the controller back to GeoVision for battery replacement.



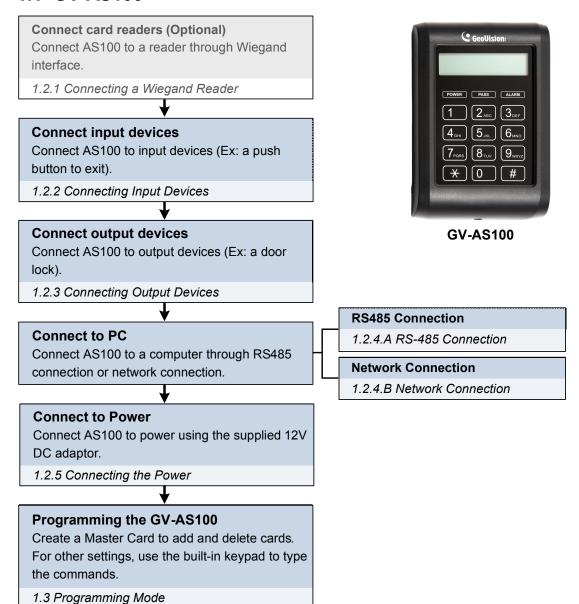
GV-AS Controller Quick Start Guide

This guide lists the basic steps required to set up a GV-AS Controller. For detailed instructions, refer to the section number listed below each step.

1. Basic Setup for GV-AS100 / 110 / 120

This section covers the basic settings required to start running GV-AS100 / 110 / 120. For more settings, refer to *5. Optional Devices for GV-AS100 / 110 / 120*. The section numbers listed here refers to the *GV-AS Controller User Manual*.

1.1 GV-AS100





1.2 GV-AS110

Connect card readers (Optional)

Connect AS110 to a reader through Wiegand interface.

2.2.1 Connecting a Wiegand Reader

Connect input devices

Connect AS110 to input devices (Ex: a push button to exit).

2.2.2 Connecting Input Devices



Connect AS110 to output devices (Ex: a door lock).

2.2.3 Connecting Output Devices

Connect to PC

Connect AS110 to a computer through RS485 connection or network connection.

Connect to Power

Connect AS110 to power using the supplied 12V DC adaptor.

2.2.5 Connecting the Power

Programming the GV-AS110

Create an Enroll Card and a Delete Card to add and delete cards. For other settings, use the built-in keypad to type the commands.

2.3 Programming Mode



GV-AS110

RS485 Connection

2.2.4.A RS-485 Connection

Network Connection

2.2.4.B Network Connection



1.3 GV-AS120

Connect card readers (Optional)

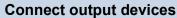
Connect AS120 to a reader through Wiegand interface.

3.2.1 Connecting a Wiegand Reader

Connect input devices

Connect AS120 to input devices (Ex: a push button to exit).

3.2.2 Connecting Input Devices



Connect AS120 to output devices (Ex: a door lock).

3.2.3 Connecting Output Devices

Connect to PC

Connect AS120 to a computer through RS485 connection or network connection.

Connect to Power

Connect AS120 to power using the supplied 12V DC adaptor.

3.2.5 Connecting the Power

Add and delete cards

Create an Enroll Card and a Delete Card to add and delete cards.

3.3 Programming Mode



GV-AS120

RS485 Connection

3.2.4.A RS-485 Connection

Network Connection

3.2.4.B Network Connection



2. Physical Wiring for GV-AS210 / 400 / 410 / 810 and GV-

EV48

2.1 GV-AS210

Connect card readers

Connect AS210 to readers through Wiegand or RS-485 interface.

Connect input devices

Connect AS210 to input devices (Ex: a push button to exit).

4.2.2 Connecting Input Devices

Connect output devices

Connect AS210 to output devices (Ex: a door lock).

4.2.3 Connecting Output Devices

Connect Backup Battery (Optional)

Connect AS210 to backup battery in case the main power supply fails.

4.2.4 Connecting Backup Battery

Connect to Power

Connect AS210 to power using the supplied 12V DC adaptor.

4.2.5 Connecting the Power

Connect to PC

Connect AS210 to a computer to access its Web interface and connect with GV-ASManager.

4.2.6 Connecting the PC

Wiegand

4.2.1.A Wiegand Readers

RS485

4.2.1.B RS-485 Readers



GV-AS210



2.2 GV-AS400

Connect card readers

Connect AS400 to readers through Wiegand or RS-485 interface.

Connect input devices

Connect AS400 to input devices (Ex: a push button to exit), and set them as NO or NC.

5.2.2 Connecting Input Devices

Connect output devices

Connect AS400 to output devices (Ex: a door lock).

5.2.3 Connecting Output Devices

Connect GV-AS Power Board

Connect AS400 to AS Power Board to provide additional power supply for output devices and to support backup battery.

Connect to Power

Connect AS400 to power using GV-AS Power Board directly.

5.2.4 Connecting the Power

Connect to PC

Connect AS400 to a computer to access its Web interface and connect with GV-ASManager.

5.2.5 Connecting the PC

Wiegand

5.2.1.A Wiegand Readers

RS485

5.2.1.B RS-485 Readers

Connect output

5.6.2 Connecting Output Devices

Connect backup battery (Optional)

5.6.4 Connecting Backup Battery



Do not plug the supplied 24V DC power adaptor to the power input of GV-AS400.



GV-AS400



2.3 GV-AS410 / 810

Connect card readers

Connect AS410 / 810 to readers through Wiegand or RS-485 interface.

Wiegand

6.2.1.A Wiegand Readers

RS485

6.2.1.B RS-485 Readers

Connect input devices

Connect AS410 / 810 to input devices (Ex: a push button to exit).

6.2.2 Connecting Input Devices

Connect output devices

Connect AS410 / 810 to output devices (Ex: a door lock).

6.2.3 Connecting Output Devices

Connect Backup Battery (Optional)

Connect AS410 / 810 to backup battery in case the main power supply fails.

6.2.4 Connecting Backup Battery

Connect to Power

Connect AS410 / 810 to power using the supplied 12V DC adaptor.

6.2.5 Connecting the Power

Connect to PC

Connect AS410 / 810 to a computer to access its Web interface and connect with GV-ASManager.

6.2.6 Connecting the PC



GV-AS410 / 810

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2.4 GV-EV48

Connect card readers

Connect EV48 to readers through RS-485 interface.

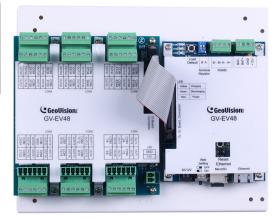
7.2.1 Connecting RS-485 Card Readers



Connect output relay

Connect EV48 output relays to the corresponding floor on the elevator control panel.

7.2.2 Connecting Output Relay



GV-EV48

Connect Backup Battery (Optional)

Connect EV48 to backup battery in case the main power supply fails.

7.2.3 Connecting Backup Battery



Connect to Power

Connect EV48 to power using the supplied 12V DC adaptor.

7.2.4 Connecting the Power



Connect to PC

Connect EV48 to a computer to access its Web interface and connect with GV-ASManager.

7.2.5 Connecting the PC



3. Accessing the Web Interface of GV-AS210 / 400 / 410 /

810 and GV-EV48

After connecting the required wires and cables for GV-AS210 / 400 / 410 / 810 and GV-EV48, access the Web interface of the GV-AS Controller to define the devices connected. The section numbers listed here refers to the *GV-AS Controller User Manual*.

Set network configurations

Assign a static IP address or set up DDNS to map a dynamic IP address to a static domain name.

Chapter 8 Installing on a Network

Set card readers

Define the connected readers by selecting the corresponding doors / gates.

Set Function Settings

Specify the function and the authentication mode for each door / gate.

9.2.1 Function Setting

Set Parameter Settings

Set the door operation for different situations and enable alarms for each door / gate.

9.2.2 Parameter Settings

Set Input Settings

Name the input devices connected and set the input type and input function.

9.2.4 Input Settings

Set Output Settings

Name the output devices connected and set the output type, function and conditions.

9.2.5 Output Settings

Static IP address

8.1 Fixed IP connection

Dynamic IP address

8.2 DHCP Connection

Set Wiegand readers

9.2.6 Wiegand Function

Set RS485 or TCP/IP readers

9.3.1 Extended Reader

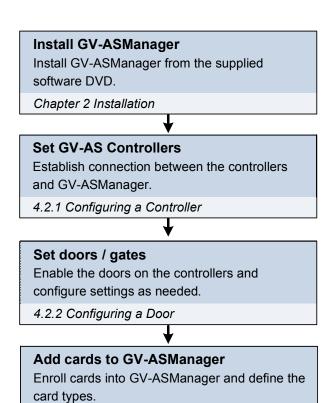
Note: For GV-EV48, the Input Settings and Wiegand Function pages are not available.

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4. Setting GV-AS Controller on GV-ASManager

After setting up the Web interface, connect the GV-AS Controller to a GV-ASManager. Through GV-ASManager, you can set up the doors and enroll cards. The section numbers listed here refers to the *GV-ASManager User Manual*.



4.3 Adding Cards

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5. Optional Devices for GV-AS100 / 110 / 120

To access GV-AS100 / 110 / 120 on a network, an optional device GV-ASBox or GV-ASNet is required. GV-ASBox also supports connection with additional input devices, output devices and readers through Wiegand interface and RS-485 interface. GV-ASNet supports additional readers through RS-485 connection.

You will need to first complete the physical wiring of GV-ASBox or GV-ASNet before accessing the Web interface. After the controller is installed on a network, GV-AS100 / 110 / 120 can also connect with GV-ASManager for advanced settings. Refer to *4. Setting GV-AS Controller on GV-ASManager* for details.

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5.1 Physical Wiring of GV-ASBox and GV-ASNet

The section numbers listed here refers to the GV-AS Controller User Manual.

Physical Wiring of GV-ASBox

Connect GV-AS100 / 110 / 120

Connect GV-ASBox with GV-AS100 / 110 / 120. 10.1.4.A Connecting GV-AS100 / 110 / 120

Connect a Wiegand reader

GV-ASBox supports connection with one Wiegand reader.

10.1.4.B Connecting a Wiegand Reader

Connect readers through RS-485

Connect GV-ASBox with readers through RS-485 interface.

10.1.4.C Connecting GV-Readers and GV-GF Fingerprint Readers

Connect input devices

Connect GV-ASBox to input devices (Ex: a push button to exit).

10.1.4.D Connecting Input Devices

Connect output devices

Connect GV-ASBox to output devices (Ex: a door lock).

10.1.4.E Connecting Output Devices

Connect Backup Battery (Optional)

Connect GV-ASBox to backup battery in case the main power supply fails.

10.1.4.F Connecting Backup Battery

Connect to Power

Connect GV-ASBox to power using the supplied 12V DC adaptor.

Connect to PC

Connect GV-ASBox to a computer to access its Web interface and connect with GV-ASManager.

Physical Wiring of GV-ASNet

Connect GV-AS100 / 110 / 120

Connect GV-ASNet with GV-AS100 / 110 / 120. 10.2.4.A Connecting GV-AS100 / 110 / 120

Connect readers through RS-485

Connect GV-ASNet with readers through RS-485 interface.

10.2.4.B Connecting GV-Readers and GV-GF Fingerprint Readers

Connect Backup Battery (Optional)

Connect GV-ASNet to backup battery in case the main power supply fails.

10.2.4.C Connecting Backup Battery

Connect to Power

Connect GV-ASNet to power using the supplied 12V DC adaptor.

Connect to PC

Connect GV-ASNet to a computer to access its Web interface and connect with GV-ASManager.

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5.2 Accessing the Web Interface of GV-AS100 / 110 / 120

The section numbers listed here refers to the GV-AS Controller User Manual.

Set network configurations

Assign a static IP address or set up DDNS to map a dynamic IP address to a static domain name.

Chapter 8 Installing on a Network

Set card readers

Define the connected readers by selecting the corresponding doors / gates.

Set Function Settings

Specify the function and the authentication mode for each door / gate.

10.3.2.A Function Setting

Set Parameter Settings

Set the door operation for different situations and enable alarms for each door / gate.

10.3.2.B Parameter Settings

Set Input / Output Settings (ASBox only)

Name the input / output devices connected and define the input / output sensors.

10.3.2.F In / Out Function

Set Wiegand readers (ASBox only)

10.3.2.A Function Setting

Set RS485 or TCP/IP readers

10.3.2.G Extended Reader

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