

Quick Start Guide

GV-AS / EV Controller



Thank you for purchasing GV-AS / EV Controller. This guide is designed to assist the new user in getting immediate results from the controllers. For advanced information on how to use the controllers, please refer to GV-AS / EV Controller User's Manual on the software CD / DVD.





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Note: No memory card slot or local storage function for Argentina.

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Preface

Welcome to the GV-AS / EV Controller Quick Start Guide.

This Quick Start Guide is designed for the following models:

Model	Model Number
GV-AS Controller	GV-AS100 / 1010
	GV-AS110 / 1110
	GV-AS120
	GV-AS210 / 2110 / 2120 / 2121
	GV-AS410 / 4110
	GV-AS810 / 8110
GV-EV Controller	GV-EV48

Separate manuals have been produced for other model numbers of GV-Controllers not listed above. Visit www.geovision.com.tw/download/product/ to search for specific model numbers and download their technical documentation.



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Important Note for Maintaining Power Supply

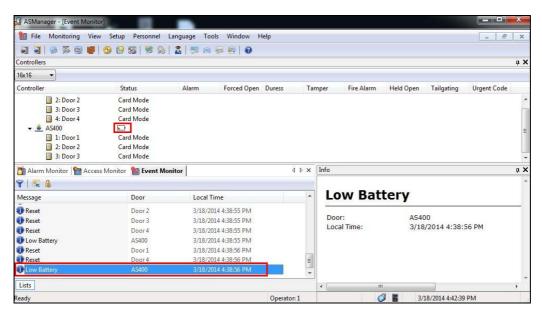
To make sure GV-AS / EV Controllers can function properly during a power outage, be sure to replace the internal battery on the controllers when needed. It is also recommended to install a backup battery for compatible GV-AS Controllers.

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

- GV-AS100 / 110 / 120 through GV-ASBox: See 9.1.4.F Connecting Backup Battery.
- GV-AS100 / 110 / 120 through GV-ASNet: See 9.2.4.F Connecting Backup Battery.
- **GV-AS210 / 2110 / 2120:** See 4.2.4 Connecting Backup Battery
- GV-AS410 / 4110 / 810 / 8110: See 5.2.4 Connecting Backup Battery
- GV-EV48: See 6.2.3 Connecting Backup Battery.

Replaceable Button Cell (GV-AS100 / 2110 / 2120 / 4110 / 8110)

For GV-AS100 / 2110 / 2120 / 4110 / 8110, you can replace the battery on your own when you see low battery messages and icons in GV-ASManager.



Note: Make sure the plastic insulation film under the battery is removed when using GV-AS100 / 2110 / 2120 / 4110 / 8110 for the first time. The low battery messages and icons will appear if the plastic film is not removed.



Built-in Battery (GV-AS1010 / 110 / 1110 / 120 / 210 / 410 / 810 & GV-EV48)

When the controller 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, connect the controller to a backup battery and maintain connection with GV-ASManager at all times. When connected to GV-ASManager, the controller's time will be synchronized with GV-ASManager's time.



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 / 1010 / 110 / 1110 / 120

This section covers the basic settings required to start running GV-AS100 / 1010 / 110 / 1110 / 120. For more settings on GV-AS100 / 110 / 120, refer to 5. Optional Devices for GV-AS100 / 110 / 120. The section numbers listed here refers to the GV-AS Controller User Manual.

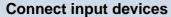


1.1 GV-AS100 / 1010

Connect card readers (Optional)

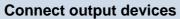
Connect AS100 / 1010 to a reader.

1.2.1 Connecting Card Readers



Connect AS100 / 1010 to input devices (Ex: a push button to exit).

1.2.2 Connecting Input Devices



Connect AS100 / 1010 to output devices (Ex: a door lock).

1.2.3 Connecting Output Devices



Connect the controller to a computer through RS485 connection (AS100) or network connection (AS100 & AS1010).

1.2.4 Connecting the PC

Connect to Power

Connect AS100 / 1010 to power using the supplied adaptor.

1.2.5 Connecting the Power

Programming the GV-AS100 / 1010

Create a Master Card (AS100) or Enroll / Delete Card (AS1010) to add and delete cards. For other settings, use the built-in keypad to type the commands.

1.3 Programming Mode



GV-AS100



GV-AS1010



1.2 GV-AS110 / 1110

Connect card readers (Optional)

Connect AS110 / 1110 to a reader...

2.2.1 Connecting Card Readers

Connect input devices

Connect AS110 / 1110 to input devices (Ex: a push button to exit).

2.2.2 Connecting Input Devices



Connect output devices

Connect AS110 / 1110 to output devices (Ex: a door lock).

2.2.3 Connecting Output Devices



GV-AS110 / 1110

Connect to PC

Connect the controller to a computer through RS485 connection (AS110) or network connection (AS110 & AS1110).

2.2.4 Connecting the PC



Connect to Power

Connect AS110 / 1110 to power using the supplied adaptor.

2.2.5 Connecting the Power



Programming the GV-AS110 / 1110

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



1.3 GV-AS120

Connect card readers (Optional)

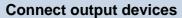
Connect AS120 to a reader through Wiegand interface.

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

4



2. Physical Wiring for GV-AS210 / 2110 / 2120 / 410 / 4110 / 810 / 8110 and GV-EV48

2.1 GV-AS210 / 2110 / 2120

Connect card readers

Connect the controller to readers through Wiegand or RS-485 interface.

Connect input devices

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

4.2.2 Connecting Input Devices

Connect output devices

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

4.2.3 Connecting Output Devices

Connect Backup Battery (Optional)

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

4.2.4 Connecting Backup Battery

Connect to Power

Connect the controller to power using a 12V DC adaptor (or a PoE adapter for AS2120 / 2121).

4.2.5 Connecting the Power

Connect to PC

Connect the controller 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 / 2110 / 2120



2.2 GV-AS410 / 4110 / 810 / 8110

Connect card readers

Connect the controller to readers through Wiegand or RS-485 interface.

Wiegand

5.2.1.A Wiegand Readers

RS485

5.2.1.B RS-485 Readers

Connect input devices

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

5.2.2 Connecting Input Devices

Connect output devices

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

5.2.3 Connecting Output Devices

Connect Backup Battery (Optional)

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

5.2.4 Connecting Backup Battery

Connect to Power

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

5.2.5 Connecting the Power

GV-AS410 / 4110 / 810 / 8110

Connect to PC

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

5.2.6 Connecting the PC



2.3 GV-EV48

Connect card readers

Connect EV48 to readers through RS-485 interface.

6.2.1 Connecting RS-485 Card Readers



Connect output relay

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

6.2.2 Connecting Output Relay



GV-EV48

Connect Backup Battery (Optional)

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

6.2.3 Connecting Backup Battery



Connect to Power

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

6.2.4 Connecting the Power



Connect to PC

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

6.2.5 Connecting the PC



3. Accessing the Web Interface of the GV-AS Controllers

After connecting the required wires and cables for the following GV-AS Controllers, access the Web interface of the GV-AS Controller to define the devices connected: GV-AS1010 / 1110 / 210 / 2110 / 2120 / 410 / 4110 / 810 / 8110 and GV-EV48. 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 7 Installing on a Network

Set card readers

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

Set Function Configuration

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

8.2.1 Function Configuration

Set Parameter Configuration

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

8.2.2 Parameter Configuration

Set Input Configuration

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

8.2.6 Input Configuration

Set Output Configuration

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

8.2.7 Output Configuration

Static IP address

7.1 Fixed IP connection

Dynamic IP address

7.2 DHCP Connection

Set Wiegand readers

8.2.8 Wiegand Function

Set RS485 or TCP/IP readers

8.3.1 Extended Reader

Note: The Wiegand Function and Output Settings pages are not available for GV-AS1010 / 1110 and GV-EV48. For GV-EV48, the Input Setting page is also not available.



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*.

Install GV-ASManager

Install GV-ASManager from the supplied software DVD.

Chapter 2 Installation

Set GV-AS Controllers

Establish connection between the controllers and GV-ASManager.

4.2.1 Configuring a Controller

Set doors / gates

Enable the doors on the controllers and configure settings as needed.

4.2.2 Configuring a Door

Add cards to GV-ASManager

Enroll cards into GV-ASManager and define the card types.

4.3 Adding Cards



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.



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. 9.1.4.A Connecting GV-AS100 / 110 / 120

Connect a Wiegand reader

GV-ASBox supports connection with one Wiegand reader.

9.1.4.B Connecting a Wiegand Reader

Connect readers through RS-485

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

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

Connect input devices

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

9.1.4.D Connecting Input Devices

Connect output devices

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

9.1.4.E Connecting Output Devices

Connect Backup Battery (Optional)

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

9.1.4.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. 9.2.4.A Connecting GV-AS100 / 110 / 120

Connect readers through RS-485

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

9.2.4.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.

9.2.4.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.



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 7 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.

9.3.2.A Function Setting

Set Parameter Settings

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

9.3.2.B Parameter Settings

Set Input / Output Settings (ASBox only)

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

9.3.2.F In / Out Function

Set Wiegand readers (ASBox only)

9.3.2.A Function Setting

Set RS485 or TCP/IP readers

9.3.2.G Extended Reader