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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 GV-AS100 / 1010 / 110 / 1110 / 120 / 210 / 2110 / 2120 / 410 / 4110 / 810 / 8110 and GV-EV48, please refer to GV-AS / EV Controller User's Manual on Software CD / DVD.

ASEV-QG-E

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

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Important Note for Maintaining Power Supply

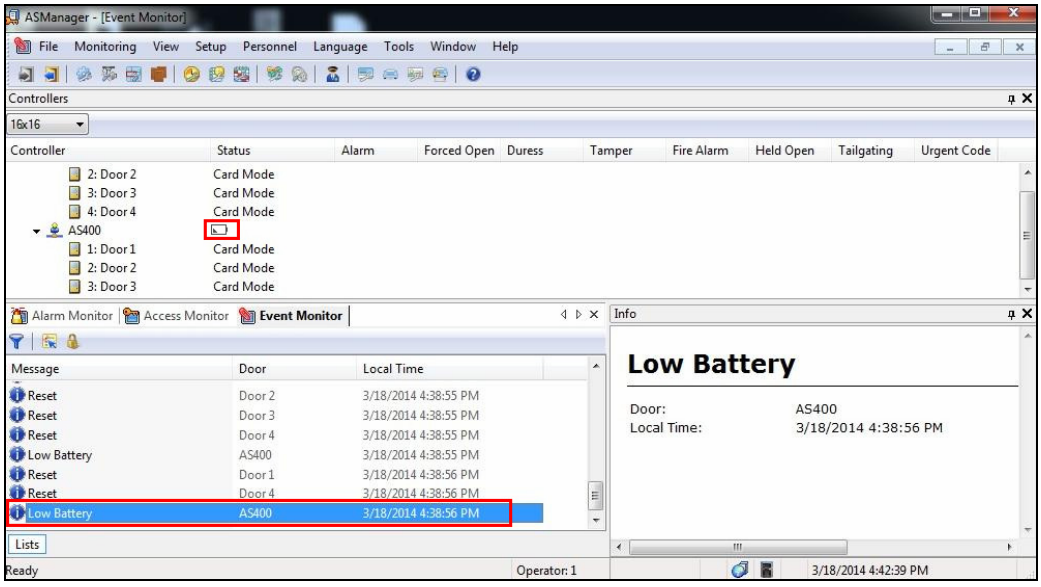
To make sure GV-AS / EV Controllers can function properly during a power outage, be sure to replace the internal battery on the controllers when needed. It is also recommended to install a backup battery for compatible GV-AS Controllers.

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)

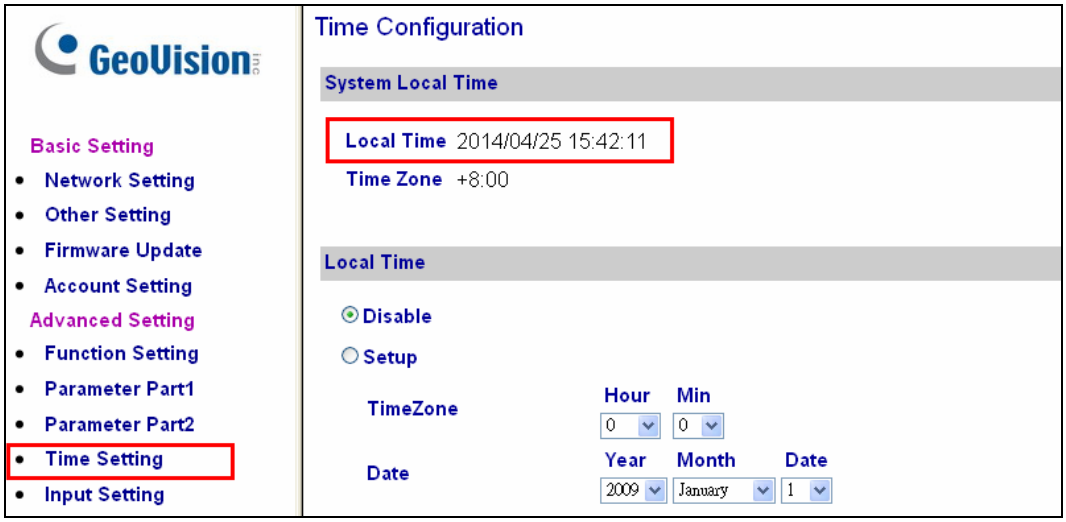
For GV-AS100 / 2110 / 2120 / 4110 / 8110, you can replace the battery on your own when you see low battery messages and icons in GV-ASManager.



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

↓

Connect output devices
Connect AS100 / 1010 to output devices (Ex: a door lock).
1.2.3 Connecting Output Devices

↓

Connect to PC
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

↓

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

GV-AS110 / 1110

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 output 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.

- **RS485 Connection** — *3.2.4.A RS-485 Connection*
- **Network Connection** — *3.2.4.B 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

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 AS210 / 2110 / 2120 to readers through Wiegand or RS-485 interface.

- **Wiegand** — *4.2.1.A Wiegand Readers*
- **RS485** — *4.2.1.B RS-485 Readers*

↓

Connect input devices
Connect AS210 / 2110 / 2120 to input devices (Ex: a push button to exit).
4.2.2 Connecting Input Devices

↓

Connect output devices
Connect AS210 / 2110 / 2120 to output devices (Ex: a door lock).
4.2.3 Connecting Output Devices

↓

Connect Backup Battery (Optional)
Connect AS210 / 2110 / 2120 to backup battery in case the main power supply fails.
4.2.4 Connecting Backup Battery

↓

Connect to Power
Connect AS210 / 2110 / 2120 to power using a 12V DC adaptor (or a PoE adapter for AS2120).
4.2.5 Connecting the Power

↓

Connect to PC
Connect AS210 / 2110 / 2120 to a computer to access its Web interface and connect with GV-ASManager.
4.2.6 Connecting the PC

GV-AS210 / 2110 / 2120

2.2 GV-AS410 / 4110 / 810 / 8110

Connect card readers
Connect AS410 / 4110 / 810 / 8110 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 AS410 / 4110 / 810 / 8110 to input devices (Ex: a push button to exit).
5.2.2 Connecting Input Devices

↓

Connect output devices
Connect AS410 / 4110 / 810 / 8110 to output devices (Ex: a door lock).
5.2.3 Connecting Output Devices

↓

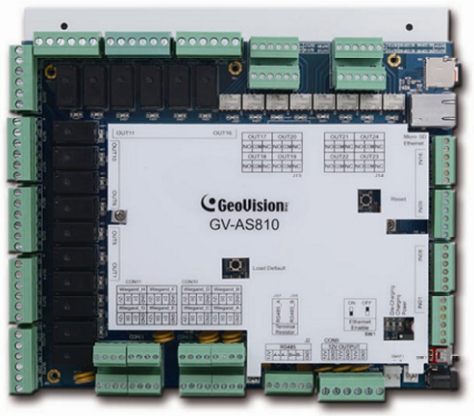
Connect Backup Battery (Optional)
Connect AS410 / 4110 / 810 / 8110 to backup battery in case the main power supply fails.
5.2.4 Connecting Backup Battery

↓

Connect to Power
Connect AS410 / 4110 / 810 / 8110 to power using the supplied 12V DC adaptor.
5.2.5 Connecting the Power

↓

Connect to PC
Connect AS410 / 4110 / 810 / 8110 to a computer to access its Web interface and connect with GV-ASManager.
5.2.6 Connecting the PC



GV-AS410 / 4110 / 810 / 8110

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

↓

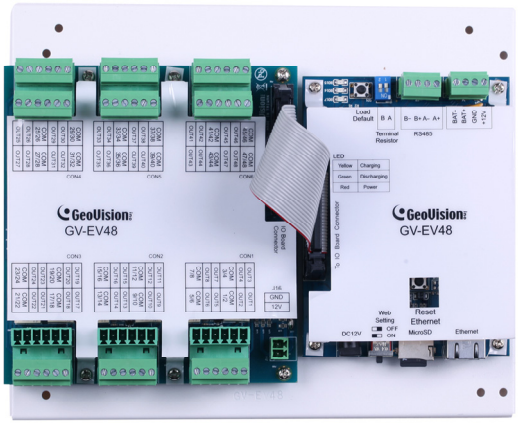
Connect Backup Battery (Optional)
Connect EV48 to backup battery in case the main power supply fails.
6.2.3 Connecting Backup Battery

↓

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

↓

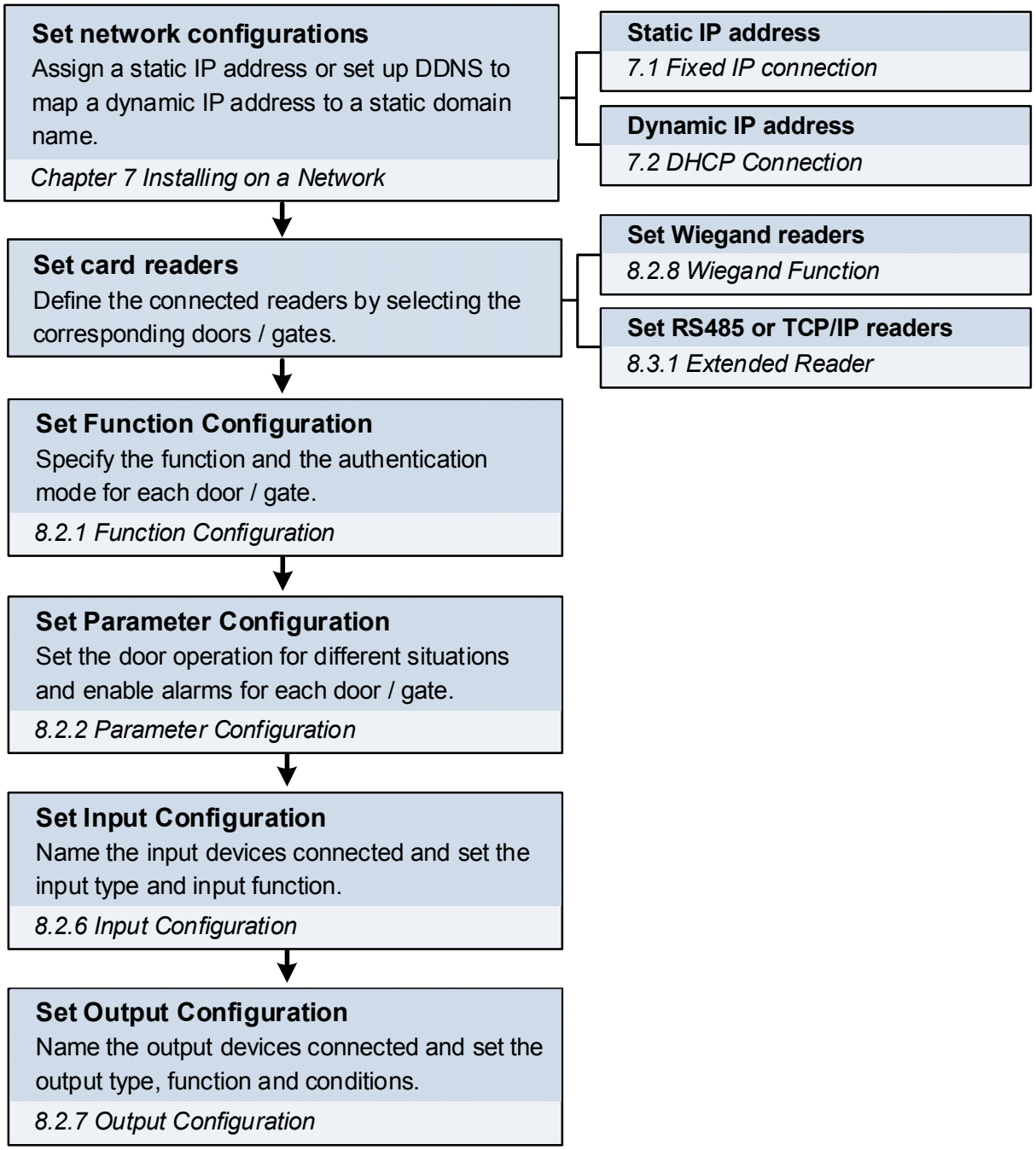
Connect to PC
Connect EV48 to a computer to access its Web interface and connect with GV-ASManager.
6.2.5 Connecting the PC



GV-EV48

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

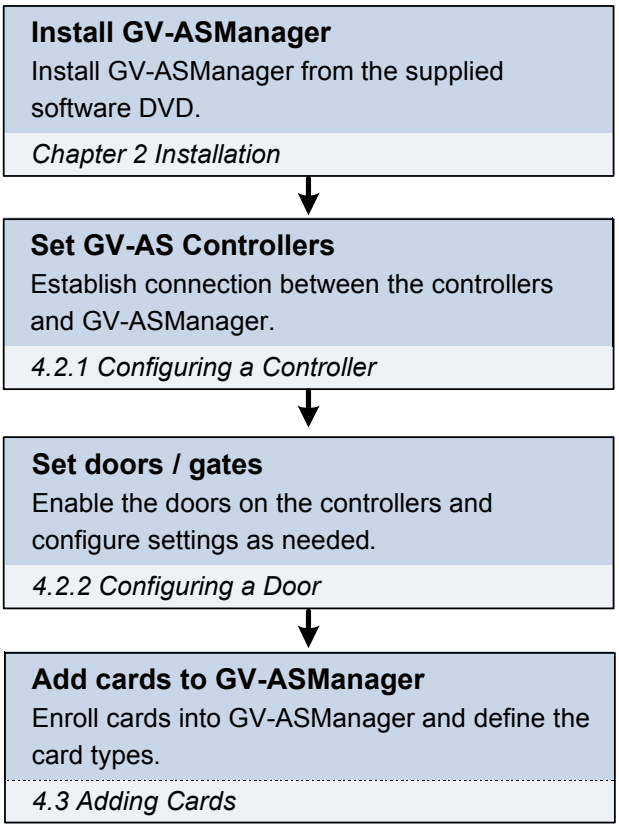
After connecting the required wires and cables for the following GV-AS Controllers, access the Web interface of the GV-AS Controller to define the devices connected: GV-AS1010 / 1110 / 210 / 2110 / 2120 / 410 / 4110 / 810 / 8110 and GV-EV48. The section numbers listed here refers to the *GV-AS Controller User Manual*.



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*.



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

↓

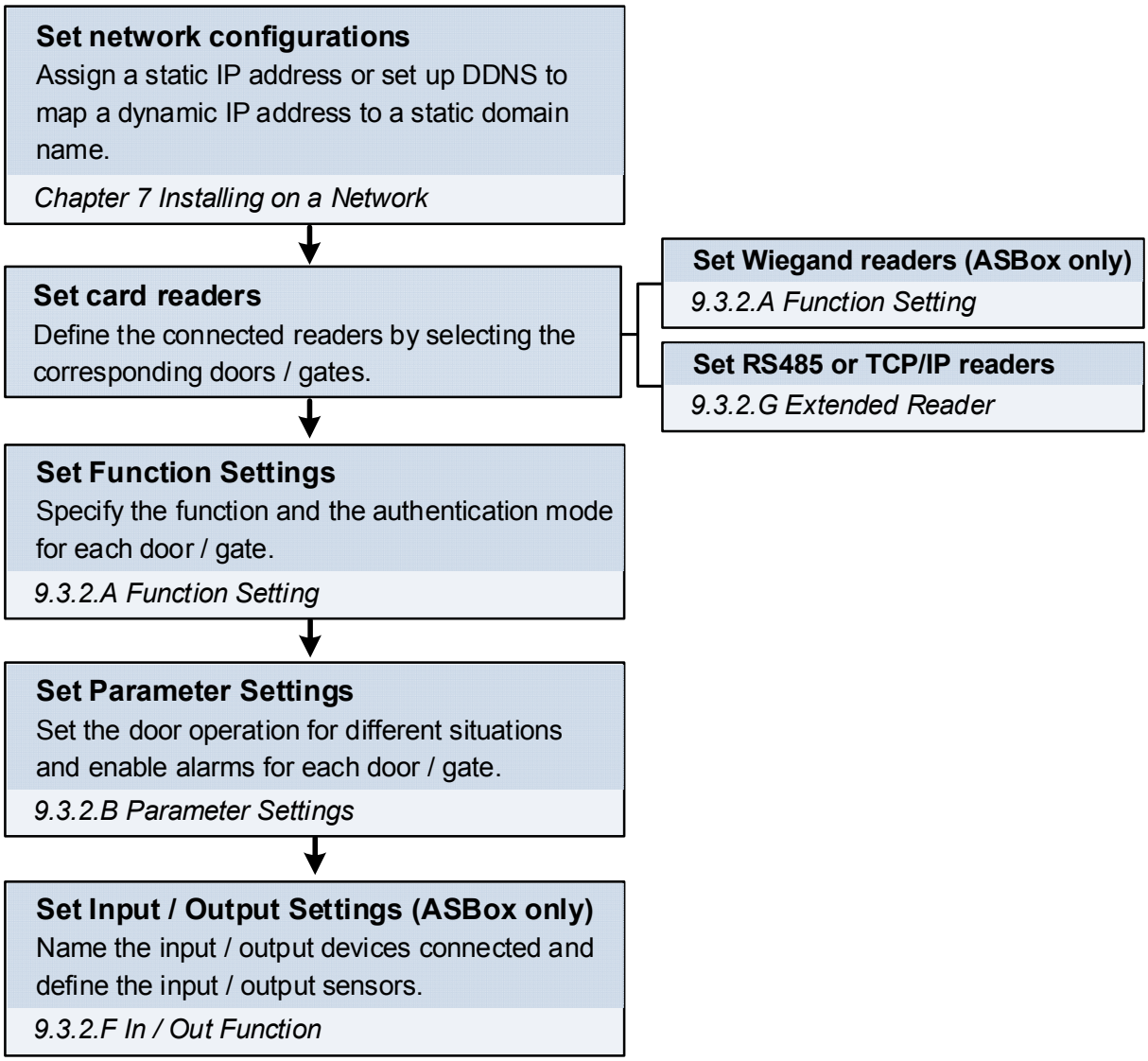
Connect Backup Battery (Optional)
Connect GV-ASNet to backup battery in case the main power supply fails.
9.2.4.C Connecting Backup Battery

↓

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*.