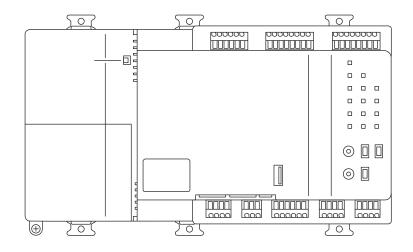


Installation Manual

Model : DGE601A51 DGE602A51





Safety Precautions

Also see the installation manual provided with the equipment that you connect.

Please read these "SAFETY PRECAUTIONS" carefully before installing the unit, and be sure to install the unit correctly.

• The installation manual and the "SAFETY PRECAUTIONS" contain important information regarding safety. Be sure to observe all precautions.

⚠ WARNING	Failure to follow these instructions properly may result in personal injury or loss of life.
⚠ CAUTION	Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

After completing the installation, conduct a trial run to check for faults, and explain to the
customer how to operate the unit and take care of it with the aid of the operation manual.
Ask the customer to store the installation manual along with the operation manual for
future reference.

↑ WARNING

- Ask your dealer or other qualified personnel to take installation work.
 Do not attempt to install the unit yourself. Improper installation may result in an electric shock or fire.
- Do not relocate or reinstall the unit yourself.
 Improper installation work may result in an electric shock or fire.
 Ask your local dealer to carry out the relocation and reinstallation of the unit.
- Install the unit in accordance with the instructions in this installation manual. Improper installation may result in an electric shock or fire.
- Be sure to use only the specified accessories and parts for the installation work.

Failure to use the specified parts may result in the DGE601A51/DGE602A51 falling, an electric shock, or fire.

- Install the unit on a foundation strong enough to withstand the weight of the unit.
- A foundation of insufficient strength may result in the equipment falling and causing injury.
- Always perform the installation work with the power supply shut off. Touching energised electric parts causes an electric shock.
- Do not disassemble, modify or repair the unit.
 An electric shock or fire may be caused.
- Make sure that all wiring is secured, that the specified wires are used, and that there is no strain on the terminal connections or wires.

Improper connection or securing of wires may result in abnormal heat build-up or fire.

! WARNING

- The choice of materials and installations must comply with the applicable national and international standards.
- Carry out the installation work taking earthquakes into account.
 Failure to do so during installation work may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual.

An insufficient power supply capacity or improper electrical construction may lead to an electric shock or fire.

- When wiring the power supply position the wires so that the electric parts box lid can be securely fastened.
 - Improper positioning of the electric parts box lid may result in an abnormal heat buildup, an electric shock, or fire.
- Be sure to earth the unit.

Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in an electric shock or fire.

- Install an earth leakage breaker, as required.

 Failure to install an earth leakage breaker may result in an electric shock or fire.
- This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the unit.

 This equipment is not suitable for use in locations where children are likely to be present.

CAUTION

- · Be very careful when transporting the unit.
- Safely dispose of the packing materials.

Tear apart and throw away plastic packaging bags so that children will not play with them.

If children play with a plastic bag which was not torn apart, they face the risk of suffocation.

- This unit is a class B product.
- In a domestic environment, this product may cause radio interference. In such cases, the user may be required to take adequate measures.
- Disposal requirements: the dismantling of the unit and of other parts must be done in accordance with relevant local and national legislation.
- Fill wiring intake hole with putty.

 Entry of water or insects may result in electric leakage or malfunction.
- Do not operate with wet hands.

 An electric shock and malfunction may be caused.
- Do not wash the unit with water.

 An electric shock or fire may be caused.
- Install the unit, its power cord, and its wiring at least 1 m away from televisions or radios.

This is to prevent picture interference and noise. (Depending on the incoming signal strength, a distance of 1 m may not be sufficient to eliminate noise.)

CAUTION

- Do not install the unit in the following places.
- 1. In places with a high concentration of mineral oil spray or vapour (e.g. a kitchen).

 Plastic parts will deteriorate, parts may fall off and water leakage could result.
- 2. Near machinery emitting electromagnetic radiation.

 Electromagnetic radiation may disturb the operation of the control system and result in a malfunction of the unit.
- 3. In places where flammable gas may leak, where there is carbon fibre or ignitable dust suspensions in the air, or where volatile flammables such as paint thinner or gasoline are handled.
 - Operating the unit in such places may result in fire.
- **4.** In places with high temperatures or where the unit is exposed to direct flames. Abnormal heat build-up or firing may be caused.
- **5. In moist areas or places that are exposed to water.**Water entering the unit may cause electric shock and malfunction.

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How to read this manual

Instructions featuring the mark printed below refer to functions only available with the DGE601A51, and not included with the DGE602A51.

DGE601A51 only

1 Before Installation

Before you start installing, make the following preparatory checks.

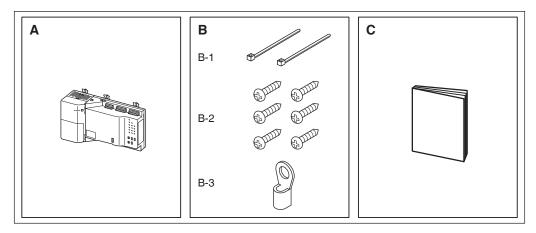
- Check that the DGE601A51/DGE602A51 comes with all accessories.
- Confirm where the terminals and switches of the DGE601A51/DGE602A51 are located.
- Check that an appropriate space for installing the DGE601A51/DGE602A51 is available.

1.1 Checking that all accessories are included

Based on the following accessory list, check that all accessories for the DGE601A51/DGE602A51 are included.

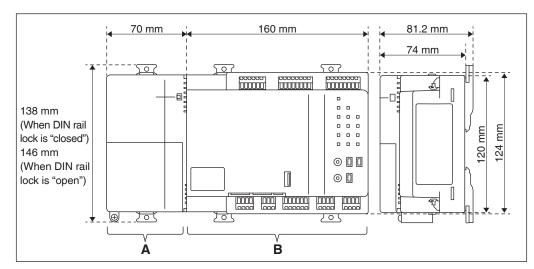
If there is any missing or defective part, contact the DAIKIN dealer where you purchased the product.

<Accessories included with DGE601A51/DGE602A51>



- **A** DGE601A51/DGE602A51, 1 pc.
- B (B-1) Clamp for fixing power supply cable, 2 pcs.
 (B-2) Wood screw (3 mm diameter x 15 mm length) for securing the body, 6 pcs.
 (B-3) Round crimp-type terminal (2-M4), 1 pc.
- C Installation manual (This manual), 1 pc.

1.2 Understanding external dimensions



- A Power supply unit
- B Main unit

1.3 Understanding terminals and switches

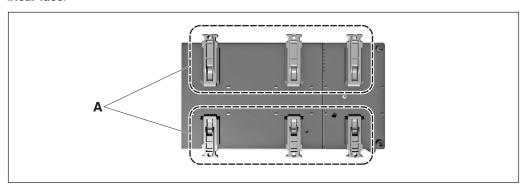
Understand the arrangement of terminals and plan how to route the cable and in which order to connect its wires to facilitate the installation procedure.

For connection details including the cable type and terminal size, refer to "3. Electrical Wiring".

1.3.1 Rear face

On the rear face of the DGE601A51/DGE602A51 there is a DIN rail lock for use when installing on a DIN rail.

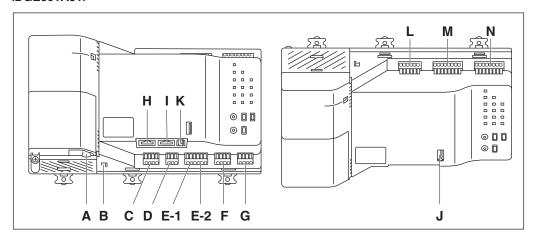
<Rear face>



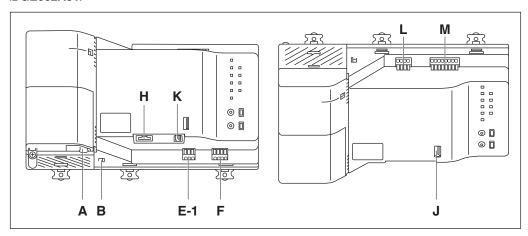
A DIN rail lock

1.3.2 Front face

<DGE601A51>



<DGE602A51>



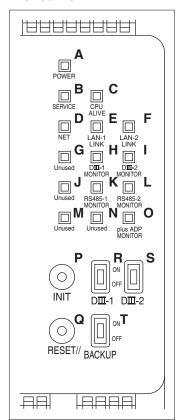
Name of each part and availability with DGE601A51/ DGE602A51

Symbol	Name	DGE601A51	DGE602A51
Α	[Intake for power supply cable]	✓	✓
В	[Inter-unit lock]	✓	✓
С	[Unused]	-	-
D	[plus ADP IF]	✓	-
E-1	[RS-485]	✓	✓
E-2	[RS-485]	✓	-
F	[DIII-1]	✓	✓
G	[DIII-2]	✓	-
Н	[LAN-1]	✓	✓
I	[LAN-2]	✓	-
J	[USB-1]	✓	✓
K	[USB-2]	✓	✓
L	[Do]	✓ (1 to 3 port)	✓ (1 to 2 port)
M	[Di1-4]	✓	✓
N	[Di5-8]	✓	-

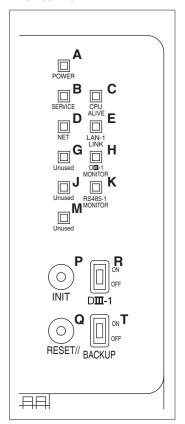
Explanation of each part

Symbol	Explanation
Α	Intake for power supply cable.
В	Knob for locking the power supply unit and main unit.
С	Unused.
D	Terminals for connecting the DGE601A52, when the system needs to control more than 128 indoor unit groups.
E-1	Terminal for connecting a WAGO I/O module.
E-2	Terminal for connecting open network (option).
F/G	Terminals for connecting the " DIII-NET " communication line, for communication with the DAIKIN air conditioners.
Н	Port for connecting to a cloud system.
I	Port for connecting to a local network.
J/K	Used for the configuration and maintenance of the DGE601A51 after its installation.
L	Used when controlling a device that can be operated by an external signal input.
M/N	Terminals for stopping air conditioner operation by an external signal in case of an emergency, or for connecting electric energy meters.

<DGE601A51>



<DGE602A51>



Name of each part and availability with DGE601A51/ DGE602A51

Symbol	Name	DGE601A51	DGE602A51
Α	[POWER] LED	✓	✓
В	[SERVICE] LED	✓	✓
С	[CPU ALIVE] LED	✓	✓
D	[NET] LED	✓	✓
E	[LAN-1 LINK] LED	✓	✓
F	[LAN-2 LINK] LED	✓	-
G	[Unused] LED	✓	✓
Н	[DIII-1 MONITOR] LED	✓	✓
I	[DIII-2 MONITOR] LED	✓	-
J	[Unused] LED	✓	✓
K	[RS485-1 MONITOR] LED	✓	✓
L	[RS485-2 MONITOR] LED	✓	-
M	[Unused] LED	✓	✓
N	[Unused] LED	✓	-
0	[plus ADP MONITOR] LED	✓	-
Р	[INIT] switch	✓	✓
Q	[RESET//] switch	✓	✓
R	[DIII-1] switch	✓	✓
S	[DIII-2] switch	✓	-
Т	[BACKUP] switch	✓	✓

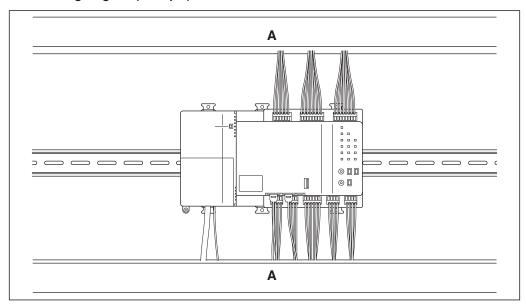
Explanation of each part

Symbol	Explanation		
A	LED (Green) indicates power is turned ON/OFF. Lit: Power is turned ON Unlit: Power is turned OFF		
В	Indicates that the registration of the DGE601A51 in the cloud is complete and that service has started. Unlit: Waiting for service to begin, or service has been stopped Lit: Normal operation		
С	LED (Green) Indicates that the DGE601A51 is operating normally. Blinking: Normal		
D	LED (Green) Indicates the cloud connection status. Unlit: Stopped/Error Lit: Normal		
E	LED (Green) Indicates that the hardware connection between the DGE601A51 and equipment connected to the LAN is in a normal state. (LAN-1) Lit: Connected Blinking: Transmitting or receiving data		
F	LED (Green) Indicates that the hardware connection between the DGE601A51 and equipment connected to the LAN is in a normal state. (LAN-2) Lit: Connected Blinking: Transmitting or receiving data		
G	Unused.		
н	LED (Orange) Blinks when data is being transmitted or received over the DIII-NET communication line. (DIII-1) Blinking: Transmitting or receiving data		
ı	LED (Orange) Blinks when data is being transmitted or received over the DIII-NET communication line. (DIII-2) Blinking: Transmitting or receiving data		
J	Unused.		
K	LED (Orange) Indicates communication status of RS485. (RS485-1) Lit: Transmitting or receiving data		
L	LED (Orange) Indicates communication status of RS485. (RS485-2) Lit: Transmitting or receiving data		
M	Unused.		
N	Unused.		
0	LED (Orange) Indicates communication status of DGE601A52. Lit: Transmitting or receiving data		
Р	Unused.		
Q	Push switch for forced restart of the DGE601A51.		
R	Switch for changeover of DIII-NET MAIN/SUB. (DIII-1) ON: MAIN OFF: SUB		
S	Switch for changeover of DIII-NET MAIN/SUB. (DIII-2) ON: MAIN OFF: SUB		
Т	Switch that turns the power of the set backup battery ON/OFF.		

1.3.3 Wiring of cables

For an example of DGE601A51 cable wiring, refer to the cable wiring diagram (example) shown below.

<Cable wiring diagram (example)>



A Cable duct

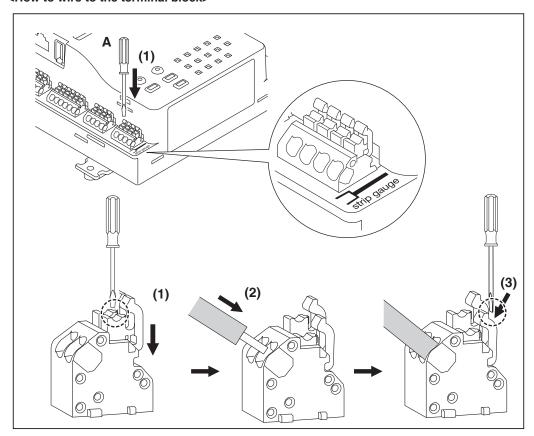
Wiring to each terminal

When wiring to [plus ADP IF DGE601A51 only], [RS-485], [DIII-1], [DIII-2 DGE601A51 only], [Do], [Di 1-4], and [Di 5-8 DGE601A51 only], perform operations on the terminal block and carry out the wiring as shown below.

- (1) Push in the opening knob with a precision flat-head screwdriver and open the insertion port.
- (2) Insert the cable into the open insertion port.
- (3) Move the opening knob forward and down and insert the cable.
- (4) Make sure that the connected cable has not come out.

When using stranded cable, make sure that no strands are protruding.

<How to wire to the terminal block>



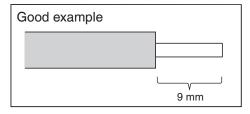
A Precision flat-head screwdriver

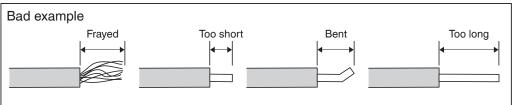
Make the length of the peeled portion of the cable 9 mm.

Refer to the [strip gauge] on the unit.

When peeling, be careful not to scratch the finish of the exposed part of the cable.

<Cable peeling allowance>





1.4 Determining installation place

Be sure to install in a place that meets the conditions described in 1.4.1 to 1.4.3 below.

1.4.1 Installation place and mounting direction

Below are the description of the installation place and mounting direction. Be sure to confirm the requirements.

- Installation place: Indoor and inside a control enclosure (lockable, or unable to be opened without special tools) (For details, refer to "CAUTION" in "Safety Precautions")
- Mounting direction: Vertical only

1.4.2 Environmental conditions

Check that the installation environment meets the following conditions.

- Ambient temperature : -10 to 50°C
- Ambient humidity: 85% RH or less (without condensation)
- DGE601A51 operation is not affected by electromagnetic waves.

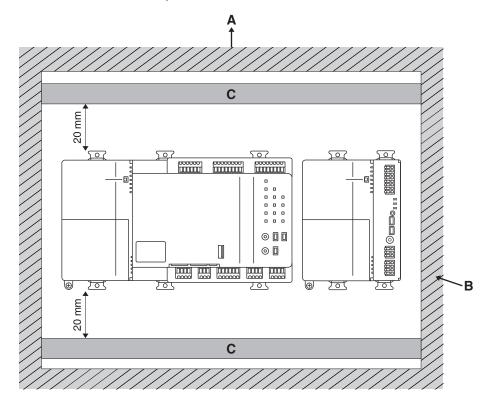
1.4.3 Required space

The figure shown below indicates the space required for installation.

- There is a minimum clearance of 20 mm from the top edge and 20 mm from the bottom edge
- Close contact in a lateral direction is possible, if attaching a DGE601A52 or similar

<DGE601A51 installation space>

Required installation space



- A Top
- **B** Wall
- C Cable duct

Do not install DIN rails vertically.

2 Installation

You can install the DGE601A51 in 2 ways.

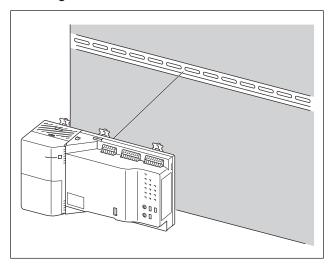
- DIN rail mounting
- Screw-mounting to control enclosure

2.1 DIN rail mounting

2.1.1 Installation procedure

Mount to a 35 mm DIN rail.

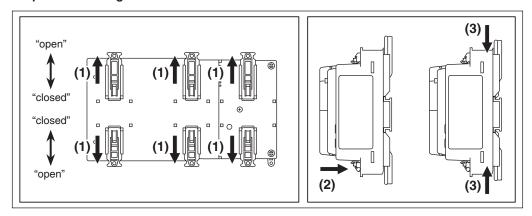
<Mounting to DIN rail>



Do not use screws to secure the unit onto the DIN rail.

- (1) Set all upper and lower DIN rail locks to the "open" position.
- (2) Press the DGE601A51 against the DIN rail.
- (3) Set all upper and lower DIN rail locks to the "closed" position.

<Steps for mounting to DIN rail>



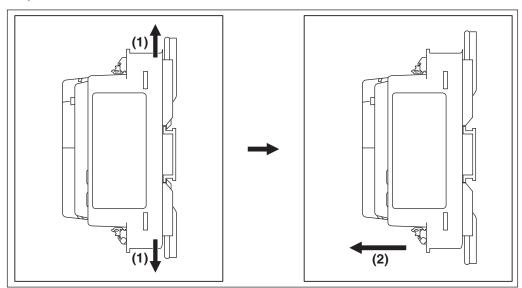
NOTE

If you need to make the mounting stronger, use DIN rail fasteners.

2.1.2 Removal from DIN rail

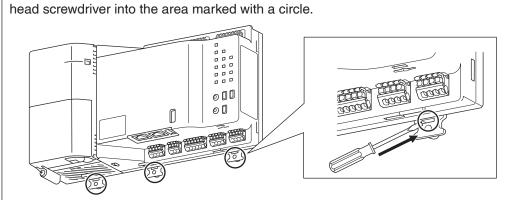
- (1) While supporting the DGE601A51 with your hand, set all upper and lower DIN rail locks to the "open" position.
- (2) Remove the DGE601A51 from the DIN rail.

<Steps for removal from DIN rail>



- NOTE -

When removing from DIN rails, if the work area is narrow and you cannot operate the DIN rail locks with your fingers, the DIN rail locks can be operated by inserting a flathead screwdriver into the area marked with a circle.



2.2 Screw-mounting to control enclosure

Secure to the control enclosure using the 6 supplied wood screws. When securing with screws, secure with all DIN rail locks set to the "open" position. (For opening and closing the DIN rail locks, refer to "2.1 DIN rail mounting".)

2.2.1 Accessory parts

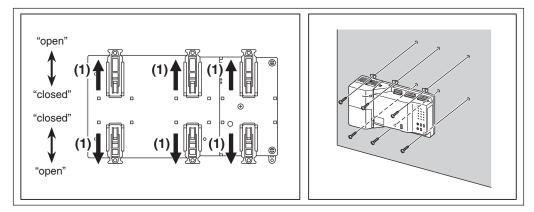
To mount to the control enclosure, use the following accessory mounting parts.

• Wood screw (3 mm diameter x 15 mm length) for securing the body, 6 pcs.

2.2.2 Installation procedure

- (1) Set all DIN rail locks to the "open" position.
- (2) Secure with screws through all DIN rail lock screw holes.

<Steps for mounting to control enclosure>



3 Electrical Wiring

This chapter describes the procedure for connecting the DGE601A51 to DAIKIN air conditioners and other equipment. In addition to air conditioners, the DGE601A51 can connect to a wide range of equipment. However, the required connection procedures vary depending on the equipment to be connected.

Required procedures

- 3.1 Connecting DIII-NET-compatible air conditioners
- 3.6 Connecting a LAN cable
- 3.7 Connecting the power supply

Equipment-specific procedures

- 3.2 Connecting a DGE601A52 DGE601A51 only
- 3.3 Connecting a WAGO I/O module
- 3.4 Connecting an emergency stop input device or electric energy meters
- 3.5 Connecting to equipment which inputs output contact points



WARNING

- Do not turn on the power supply before all wire connections are completed.
 When there is an earth leakage breaker or a local switch installed in the circuit, make sure that the circuit is securely interrupted. Otherwise, an electric shock may result.
- After the wiring is completed, double-check that all wires are connected correctly before turning on the power supply. If not connected correctly, there is a possibility of malfunction.
- All wiring must be performed by an authorised electrician.



/I\ CAUTION

Be sure to confirm that the power supply cable is not connected to anything except for the unit's power supply terminals. If the power supply cable is connected incorrectly, the air conditioner or the DGE601A51 will malfunction.

3.1 Connecting DIII-NET-compatible air conditioners

DIII-NET is an original DAIKIN air conditioner communication protocol. Using DIII-NET, you can centrally control multiple DAIKIN DIII-NET-compatible air conditioning devices by connecting them to your DGE601A51.



WARNING

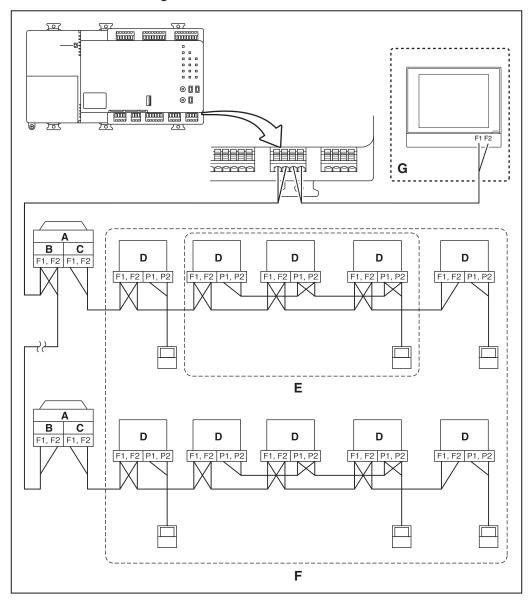
- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- To the extent possible, route the high-current cable of the power supply cable and the low-current cable of the communication cable so that they remain separate and are not side-by-side.

3.1.1 Terminals location and schematic connection diagram

To connect the DIII-NET communication line, use **[F1]** and **[F2]** terminals that are located on the front face and indicated with **[DIII-1]** and **[DIII-2] DGE601A51 only]**. These 2 terminals have no polarity.

An example of connecting more than two air conditioning devices is shown in the following schematic connection diagram.

<Schematic connection diagram with air conditioners>



- A Outdoor unit
- B OUT OUT communication (terminal)
- C IN OUT communication (terminal)
- **D** Indoor unit
- **E** A maximum of 16 indoor units can be connected to 1 remote controller group.
- **F** A remote controller group can connect a maximum of 64 groups (64 indoor units) to each DIII-NET communication line.
- **G** When connecting an additional centralised controller

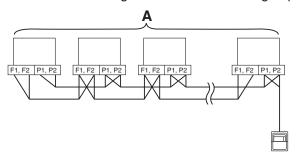
NOTE -

• What's a remote controller group?

1 remote controller can simultaneously control a maximum of 16 indoor units.

This capability is referred to as group control. A remote controller group is a group of indoor units controlled under the same remote controller.

<Schematic drawing of a remote controller group>



A Max. 16 indoor units

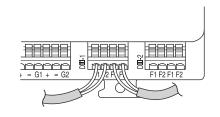
NOTE -

 When Connecting multiple wires to the terminal of DIII-NET

Connecting multiple wires to 1 terminal on the DGE601A51 terminal block is not possible.

If you want to connect multiple wires, connect the mark (F1 or F2) you want to connect to the terminal with the same mark as shown in the figure on the right.

<DIII-NET connecting>



3.1.2 Wiring specifications

- Cable type: 2-core vinyl-insulated vinyl-sheathed cable/vinyl cabtyre cable or 2-core shielded cable
- Core thickness: 0.75 1.25 mm²



CAUTION

- Do not use multicore cables with 3 or more cores.
- · When using a shielded cable, connect only one end of each shield wire to the earth.
- The maximum wire distance must be kept to 1000 m or less, and the total wire length must be limited to 2000 m or less.

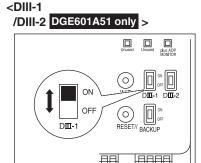
However, when using a shielded cable, the total wire length must be kept to 1500 m or less.

3.1.3 Precautions for using multiple centralised controllers

"Centralised controller" refers to the equipment (e.g. the DGE601A51) that controls multiple air conditioners. Besides the DGE601A51, DAIKIN's product portfolio includes a wide range of centralised controllers suitable for different applications or building sizes, which can be used in combination to construct an optimal air conditioning control system. If multiple centralised controllers are connected on the DIII-NET network, you must set the "MAIN (MASTER)" and "SUB (SLAVE)" relationship for those controllers.

Set only one of those controllers as "MAIN (MASTER)", and the other controllers as "SUB (SLAVE)".

The [DIII-1] and [DIII-2] switches DGE601A51 only are located on the front face of the DGE601A51. The switches in the [ON] position set it as "MAIN" and the switches in the [OFF] position set it as "SUB".



When installing multiple centralised controllers, set only the highest-priority controller as "MAIN (MASTER)" and all other controllers as "SUB (SLAVE)" according to the following order of priority.

High

- (1) Interface for use in BACnet
- (2) Interface for use in LONWORKS
- (3) Intelligent Touch Manager iTM plus adaptor DGE601A52

Priority

(4) DGE601A51

Low

- (5) Central Remote Controller
- (6) ON/OFF Controller

Centralised controllers that cannot be connected to the same network as the DGE601A51:

- CALCULATE UNIT
- intelligent Processing Unit
- Parallel Interface
- Intelligent Touch Controller
- DIII-NET Plus Adapter
- Residential Central Remote Controller
- Schedule Timer
- Wiring Adaptor for Electrical Appendices (1) (KRP2)

3.2 Connecting a DGE601A52

DGE601A51 only

If the system needs to control many air conditioners, use DGE601A52 to connect them. You can connect up to 64 air conditioners to 1 DIII port. Because it is possible to connect to 2 ports on 1 DGE601A51, the number of indoor units you can control with 1 DGE601A51 is up to 128.

By using DGE601A52 or DGE601A53, you can add 64 indoor units.

Using all 8 DIII ports, you can connect and control a total of 512 indoor units at maximum.



WARNING

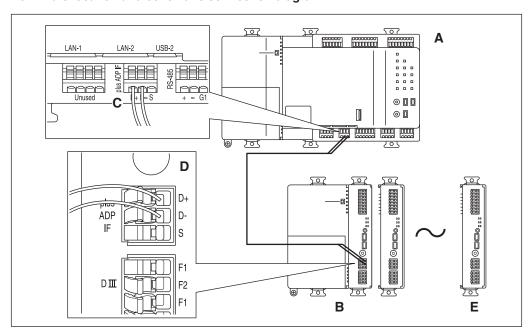
- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp high-current cables together with low-current cables.

3.2.1 Terminals location and schematic connection diagram

Connect the DGE601A52 to the **[plus ADP IF]** terminals located on the front face. Be sure to connect the positive wire to the "**D+**" terminal and the negative wire to the "**D-**" terminal, respectively, as these terminals have polarity.

The DGE601A51 must be connected as a terminal to the wiring.

<Terminals location and schematic connection diagram>



- A DGE601A51
- **B** DGE601A52
- C plus ADP IF (DGE601A51)
- **D** plus ADP IF (DGE601A52)
- E DGE601A52/DGE601A53 on which termination resistor must be enabled (For details, refer to "DGE601A52 Installation Manual (3P581074-2)" or "DGE601A53 Installation Manual (3P583694-2)".)

3.2.2 Wiring specifications

Cable type: CPEV or FCPEV cable
 Core thickness: φ0.65 - 0.9 mm

• Cable length: 50 m or less

3.3 Connecting a WAGO I/O module

In combination with the I/O module, the DGE601A51 can connect a maximum of 960 points for controlling non-DAIKIN peripheral devices such as lighting equipment and security systems.

Connect the DGE601A51 to the termination of the RS-485 wiring.

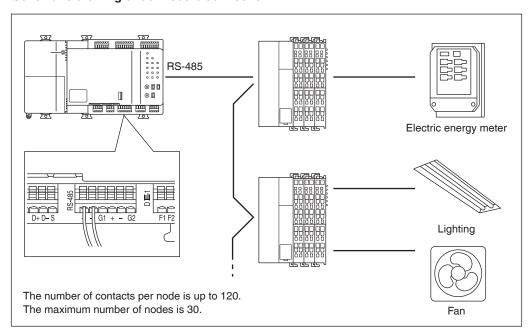


WARNING

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp high-current cables together with low-current cables.

3.3.1 Terminals location and schematic connection diagram

<Schematic drawing of I/O module connection>



Connect the WAGO I/O module to the RS-485 terminals located on the front face. As these terminals have polarity, be sure to connect the positive (+) core wire to the "+" (positive) terminal and the negative (-) core wire to the "-" (negative) terminal, respectively.

3.3.2 Wiring specifications

Cable type: CPEV or FCPEV cable
 Core thickness: φ0.65 - 0.9 mm

• Cable length: 500 m or less



CAUTION

When using a shielded cable, be sure to connect the cable to the G (ground) terminal.

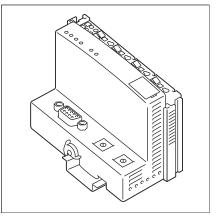
3.3.3 Address setup

The bus coupler located at the left end of nodes has rotary switches for setting the addresses.

Set a unique address for each node.

For details, refer to the "Commissioning Manual".

<Bus coupler>



3.4 Connecting an emergency stop input device or electric energy meters

The DGE601A51 can perform operations such as an emergency stop of the air conditioners according to an external signal input device, and an electricity usage calculation for each air conditioner according to the pulse inputs from a power meter.



WARNING

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp high-current cables together with low-current cables.

3.4.1 Terminals location and schematic connection diagram

Connect the contact input lines or pulse signal lines to the [i1] [i2] [i3] [i4] [i5] [i6] [i7] [i8] [CM] terminals of Di1-4 or Di5-8 DGE601A51 only located on the upper part of the front face.

Each terminal has a different function.

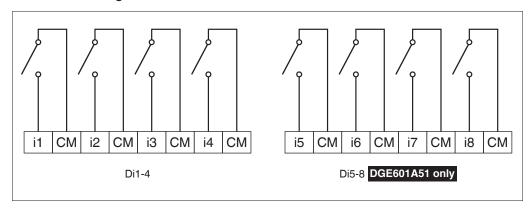
[i1] Emergency stop input

[i2] [i3] [i4] [i5] [i6] [i7] [i8] Pulse input, contact signal input

[CM] Common

However, the function settings for these terminals ([i2] to [i8]) can be changed later. For how to change the function settings, refer to the "Commissioning Manual".

<Schematic drawing of Di connection>



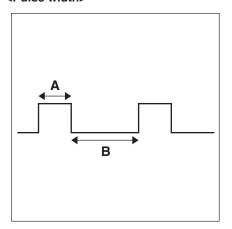
NOTE -

When using open-collector type outputs, connect **[CM]** to the negative side.

3.4.2 Wiring specifications

- Cable type: CPEV cable, FCPEV cable, CVV(S) cable
- Core thickness: CPEV cable, FCPEV cable: $\phi 0.65$ 0.9 mm CVV(S) cable: 0.75 1.25 mm²
- Cable length: 200 m or less

<Pulse width>



A Pulse width: 20 to 400 msB Pulse interval: 100 ms or more



CAUTION

- The contact connected to the contact input terminal must be capable of handling 10 mA at 16 V DC.
- If an instantaneous contact is used for triggering an emergency stop, use one that has an energisation time of 200 ms or more.

- NOTE -

Once the emergency stop input signal is turned on, all air conditioners stop and do not restart until the emergency stop input is cleared.

3.5 Connecting to equipment which inputs output contact points

By way of the output contact points on the DGE601A51, you can control other equipment, by connecting to the contact input points on the other equipment.

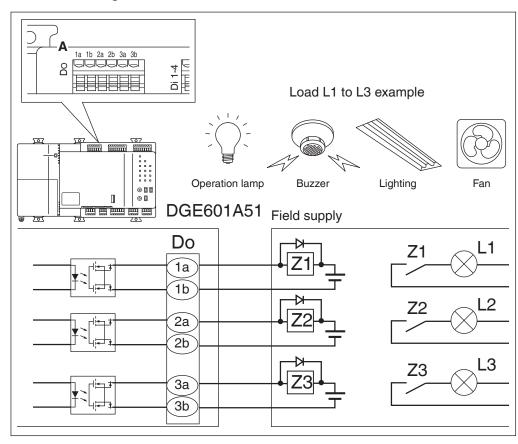


/ WARNING

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp high-current cables together with low-current cables.

3.5.1 Terminals location and schematic connection diagram

<Schematic drawing of Do connection>



A Do

Connect the contact output lines to the [1a] [1b] [2a] [2b] [3a DGE601A51 only] [3b DGE601A51 only] terminals of Do located on the upper part of the front face.

Connect [1a] to [1b], [2a] to [2b], and [3a] to [3b].

Be sure to insert a diode on both ends of the relay coil. (A diode built-in type is recommended)

Contact point specifications

- Non-voltage contact point
- Voltage: 24 V DC Maximum load current: 50 mA

3.5.2 Wiring specifications

- Cable type: CPEV cable, FCPEV cable, CVV(S) cable
- Core thickness: CPEV cable, FCPEV cable: φ0.65 0.9 mm
 CVV(S) cable: 0.75 1.25 mm²
- Cable length: 200 m or less

3.6 Connecting a LAN cable

By way of ports [LAN-1] and [LAN-2 DGE601A51 only], you can connect the DGE601A51 to a network.

NOTE -

For how to connect to a network, contact your network administrator.

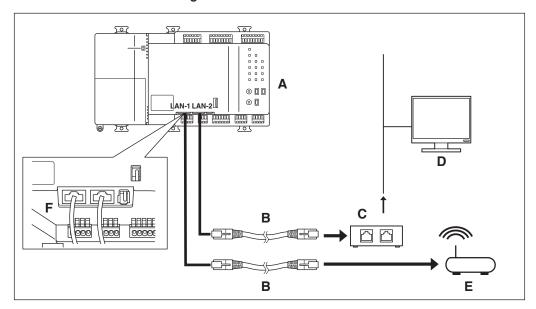
3.6.1 Terminals location and schematic connection diagram

Using a LAN cable, connect the **[LAN-1]** port and **[LAN-2] DGE601A51 only**] port to the network hub.

The role of each port is as follows.

- [LAN-1] port: For connecting to a cloud system
- [LAN-2 DGE601A51 only] port: For connecting to a local network

<LAN connection schematic diagram>



- A DGE601A51
- **B** LAN cable
- C Hub
- **D** Monitoring panel
- **E** Router
- F LAN-1/LAN-2

3.6.2 Wiring specifications

- Applicable cable standard: LAN-1 100Base-TX
 - LAN-2 100Base-TX or 10Base-T DGE601A51 only
- Connector standard: RJ-45

3.7 Connecting the power supply

Connect the DGE601A51 to a power supply.



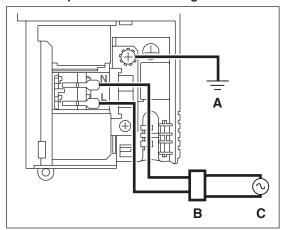
WARNING

Be sure to perform the operation during power-off conditions. Do not turn the power supply on until all connections are made. Not doing so may cause an electric shock.

3.7.1 Terminals location and schematic connection diagram

<Schematic power connection diagram>

Connect the power supply to the 3 terminals, L (Live), N (Neutral), and earth.

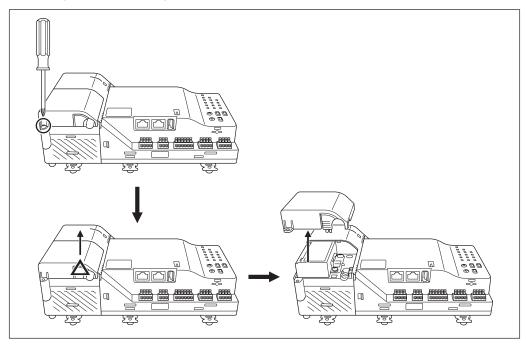


- A Earth
- B Earth leakage breaker
- C Power supply 100 240 V AC 50/60 Hz

Steps for connection

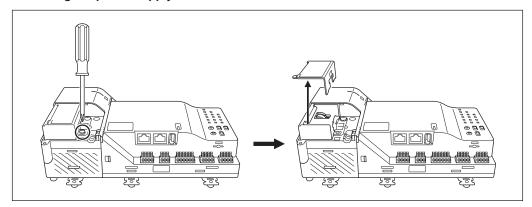
(1) Remove the screw from the power supply cable cover, push the area marked with a triangle in the direction of the arrow, and remove the cover.

<Removing the power supply cable cover>



(2) Remove the screw from the power supply terminal block cover, and remove the cover.

<Removing the power supply terminal block cover>



<u>^</u>

WARNING

A

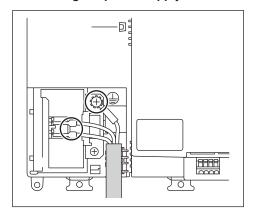
HAZARDOUS VOLTAGE

Can cause electric shock.

Be sure to turn the power supply off before removing the power supply terminal block cover.

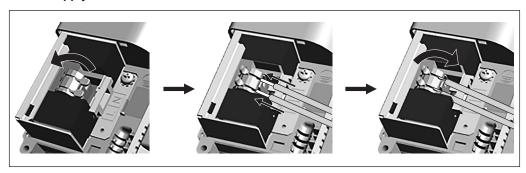
(3) Secure the earth wire onto the sheet metal earth terminal with the screw, and connect the L wire and N wire to the terminal block.

<Connecting the power supply wire>



How to connect to the power supply terminal block Lift the knob on the power supply terminal block to set it to the open position, then insert the L wire and N wire into the terminal block. Continue to push up the knob until you feel it click. After insertion, push down the knob on the power supply terminal block securely and completely.

<Power supply terminal block>



Peel away the sheath and coating of the power wire to match the dimensions shown below. You can also refer to the terminal block cover for the coating peeling allowance.

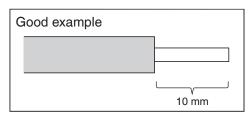
<Power wire (sheath, coating)>

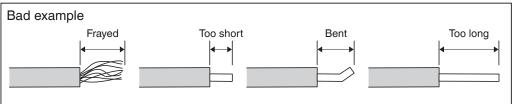
E: 45 mm 10 mm N E: 40 mm Round crimp-type terminal (2-M4) N: 50 mm * Use the included round crimp-type terminal (2-M4) for the end of the earth wire only (field supply possible)

<Terminal block cover>

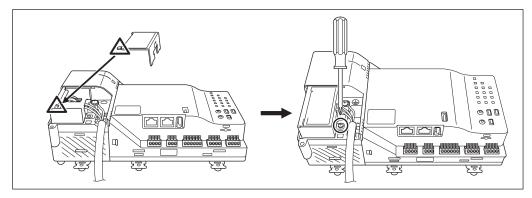


When peeling, be careful not to scratch the finish of the exposed part of the cable.



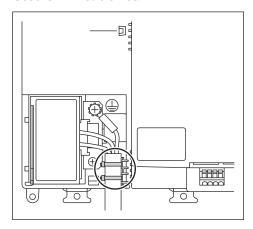


(4) While engaging the tab in the area marked with a triangle, attach the terminal block cover and secure it with the screw.

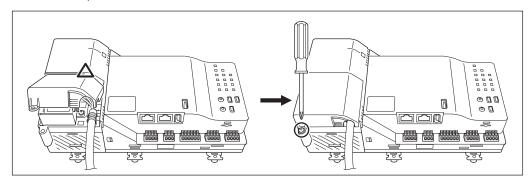


(5) Secure the sheath portion in 2 places with clamps.
Facing the front of the unit, insert the cable ties from the right side and secure.
Firmly tighten until the power wire does not move anymore.

<Secure with cable ties>



(6) Hook the power supply cover onto the tab in the area marked with a triangle, close the cover, and secure it with the screw.



3.7.2 Wiring specifications

- Cable type: Ordinary tough rubber sheathed cord (60245 IEC 53) equivalent or higher
 Ordinary polyvinyl chloride sheathed cord (60227 IEC 53) equivalent or higher
- Core thickness: Power wire: 1.0 2.0 mm²

Earth lead: Size must comply with local codes and be the same thickness as the power wire.

- Earth lead terminal treatment: Be sure to use a round crimp-type terminal (2-M4).
- Power supply voltage: Single phase 100 to 240 V AC (at 50/60 Hz)
- Electric power consumption: 23 W
- Earth leakage breaker: Rated current 10 A (Rated sensitivity current 30 mA operating time 0.1 sec or less)

3 mm minimum contact gap and all-pole disconnection



/I\ CAUTION -

- Be sure to install an earth leakage breaker capable of shutting down the power supply to the entire system, as required.
- Turning on/off the earth leakage breaker turns on/off the power supply to the DGE601A51.
- Select an earth leakage breaker that offers protection against overcurrent and short-circuit. When the earth leakage breaker only serves as earth device, make sure to also install a wiring interrupter.
- The power supply requires earth leakage breaker installation and earth wire connection. After installing an earth leakage breaker, be sure to connect only the DGE601A51 to it.
- To prevent accidents due to wire breakage or disconnection, secure the power supply cables with clamps.
- · Be sure to connect the earth wire.
- Do not connect the earth wire to gas or water pipes, lighting rods, or telephone earth wires.
- Replace the unit when the unit cannot be turned on due to the blowing of the electrical fuse.

- NOTE -

A power supply cable is not provided with the unit.

Use a 3-core power supply cable with a core thickness of $1.0 - 2.0 \text{ mm}^2$ that complies with local standards and is rated at 300 V AC or higher.

4 Initial Setup

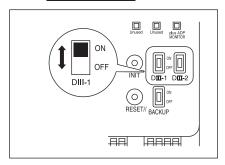
After checking that all connections are completed, start the DGE601A51 basic setup. The basic setup refers to the preparative settings for controlling the operation of your air conditioning system.

4.1 DIII-NET MAIN/SUB switch setting

It is necessary that the settings match the settings of the air conditioning system connected to the DGE601A51.

The switch is set to [ON] by default.

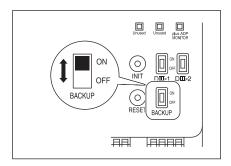
<DIII-1 /DIII-2 DGE601A51 only switch>



4.2 Setting backup battery to ON

To retain the settings even in the event of a power outage, the DGE601A51 has a built-in battery. Because this battery is disabled by default, make sure to first set the backup battery switch to **[ON]**.

<BACKUP switch>



4.3 Turning on the power supply for DGE601A51 and air conditioners

Turn on the power supply for the DGE601A51 and the devices that are connected to the DGE601A51.

First turn on the power supply for the air conditioners and then for DGE601A51.

After a while, it will be possible to set a DIII-NET address.

Set the DIII-NET addresses using the remote controller of the air conditioner.

For details, refer to "5 Setting addresses for each air conditioner".



CAUTION

Before turning on the power supply, double-check that all installations and connections are completed correctly.

5 Setting addresses for each air conditioner

The "DIII-NET system" makes use of "DIII-NET addresses", unique control addresses used to identify each air conditioning group that is part of the system.

You set "DIII-NET addresses" manually with the remote controller of the air conditioners. There are several remote controller types, and the setting method differs depending on the type. This section describes the two most commonly used types of remote controller.

5.1 Setting addresses with wired remote controller (BRC1H*)

This section describes wired remote controller BRC1H*.

NOTE -

For how to set addresses for ventilation equipment (Heat Reclaim Ventilation units) and various adaptors, refer to their respective documentation.

Names of buttons

Below are the names of the buttons and display of wired remote controller (BRC1H*).

A () ON/OFF Turn ON/OFF the system.

B O ENTER/ACTIVATE/SET

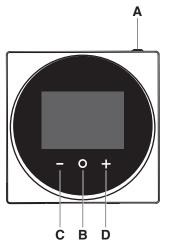
- From the homescreen, enter the main menu.
- From the main menu, enter one of the submenus.
- From their respective submenu, activate an operation/ventilation mode.
- In one of the submenus, confirm a setting.
- C CYCLE/ADJUST
 - · Cycle left.
 - Adjust a setting (default: decrease).
- D T CYCLE/ADJUST
 - Cycle right.
 - Adjust a setting (default: increase).

The operation procedure of the wired remote controller is as follows.

The operation steps will be explained in the following order. "Remote controller group MAIN", "Remote controller group SUB", "Indoor unit Airnet address", "Outdoor unit Airnet address".

NOTE -

You cannot perform the following procedure when the display backlight is off. In this case, press any key to turn on the backlight before starting the procedure.



Setting "Remote controller group MAIN" DIII-NET addresses

This section describes how to set "Remote controller group MAIN" DIII-NET addresses.

1. From the homescreen, press and hold the **b**utton. Information is displayed.



2. Press and hold the and buttons. The menu is displayed.



3. Using the and buttons, move to the centre of the screen.



4. Press the **b**utton.
The selected screen is displayed.



- NOTE -

[Group] is not displayed when the DGE601A51 is not powered on.

Power on the DGE601A51 and wait for a while before trying to operate the remote controller.

[Group] is also not displayed when the DGE601A51 is not communicating with the indoor units normally. Check that the cables are connected correctly.

5. Using the

and

buttons, move to

.



Press the button.The current address setting is displayed.



7. Using the ■ and ■ buttons, move to ■. Press the ○ button.



8. Press the # button to put a check in the box. (It is now possible to edit the DIII-NET address.)



9. Press the O button.



10. Using the ■ and ■ buttons, move to the DIII-NET address.



11.Press the O button.



12. Using the ■ and ➡ buttons, select the address you want to set.

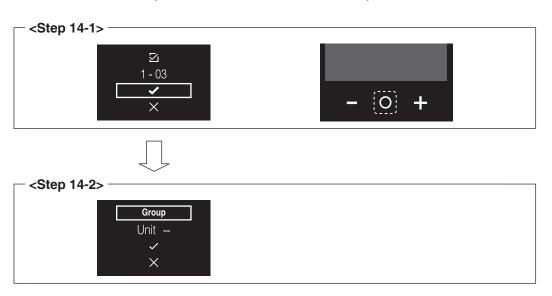


13.Press the O button.



14. Using the ■ and ➡ buttons, move to ☑.

Press the ② button. (The DIII-NET address is confirmed.)



Setting "Remote controller group SUB" DIII-NET addresses

This section describes how to set "Remote controller group SUB" DIII-NET addresses. Set them if necessary.

1. Press the O button.



2. Using the and buttons, move to Group(Unit).

Press the D button.



3. Using the and + buttons, move to the Unit 00.



4. Press the button.



5. Using the and to buttons, select the Unit No. you want to set.



6. Press the O button.



7. Using the ■ and ■ buttons, move to ✓.

Press the ○ button. (The unit No. is confirmed.)



8. Using the ■ and ■ buttons, move to ■. Press the O button.



9. Press the

button to put a check

in the box. (It is now possible to change the DIII
NET address.)



10.Press the O button.



11. Using the and buttons, move to the DIII-NET address.



12.Press the O button.



13. Using the and to buttons, select the address you want to set.

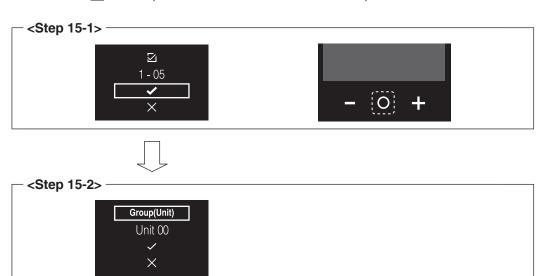


14.Press the O button.



15. Using the ■ and ➡ buttons, move to ☑.

Press the ② button. (The DIII-NET address is confirmed.)



Setting indoor unit Airnet addresses

This section describes how to set indoor unit Airnet addresses.

1. Press the O button.



2. Using the ■ and ➡ buttons, move to
Press the ○ button.



3. Using the and buttons, move to the Unit 00.



4. Press the O button.



5. Using the and to buttons, select the Unit No. you want to set.



6. Press the O button.



7. Using the ■ and ■ buttons, move to ✓.

Press the ○ button. (The unit No. is confirmed.)



8. Using the ■ and ■ buttons, move to ■. Press the O button.



9. Press the

button to put a check

in the box. (It is now possible to change the Airnet address.)



10.Press the D button.



11. Using the and buttons, move to the Airnet address.



12.Press the O button.



13. Using the ■ and ■ buttons, select the address you want to set.

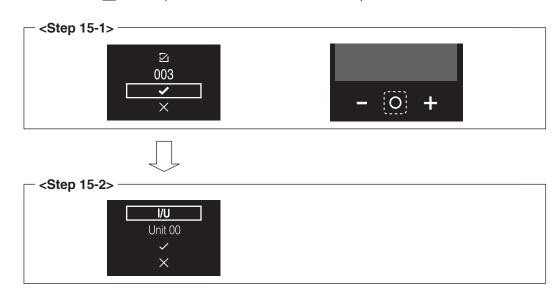


14.Press the O button.



15.Using the ■ and ➡ buttons, move to ✔.

Press the O button. (The Airnet address is confirmed.)



Setting outdoor unit Airnet addresses

This section describes how to set outdoor unit Airnet addresses.

In the following cases, refer to "5.3 Setting address on the outdoor unit" and set an Airnet address for the outdoor unit.

- Multiple systems exist in 1 remote controller group.
- 0/U is not displayed
- 1. Press the O button.



2. Using the ■ and ➡ buttons, move to O/U. Press the O button.



3. Using the ■ and ■ buttons, move to ✓. Press the O button.



4. Using the ■ and ■ buttons, move to ■. Press the ○ button.



5. Press the

button to put a check

in the box. (It is now possible to edit the Airnet address.)



6. Press the O button.



7. Using the and the buttons, move to the Airnet address.



8. Press the O button.



9. Using the and buttons, change the Airnet address.

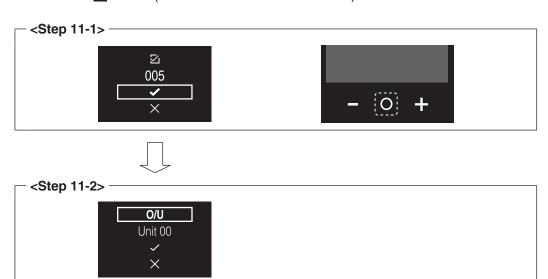


10.Press the O button.



11.Using the ■ and ➡ buttons, move to ☑.

Press the ② button. (The Airnet address is confirmed.)



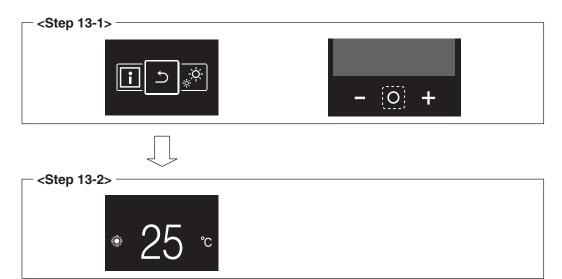
12.Using the ■ and ■ buttons, move to X.

Press the O button.



13. Using the ■ and ■ buttons, move to ⑤.

Press the ⑥ button. You will now return back to the homescreen.



5.2 Setting addresses with navigation remote controller (BRC1E*)

This section describes how to set addresses using navigation remote controller BRC1E*.

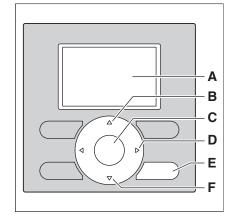
- NOTE -

For how to set addresses for ventilation equipment (Heat Reclaim Ventilation units) and various adaptors, refer to their respective documentation.

Names of buttons and display

Below are the names of the buttons and display of navigation remote controller BRC1E*.

- A Liquid-crystal display (with backlight)
- **B** Up button ▲
- C Menu/OK button
- **D** Right button
- E Cancel button
- F Down button ▼



The operation procedure of the navigation remote controller is as follows. The operation steps will be explained in the following order. "Remote controller group MAIN", "Remote controller group SUB", "Indoor unit Airnet address", "Outdoor unit Airnet address".

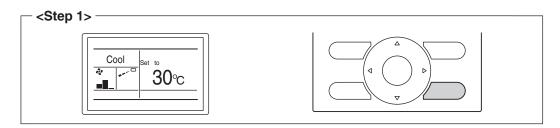
- NOTE -

You cannot perform the following procedure when the display backlight is off. In this case, press any key to turn on the backlight before starting the procedure.

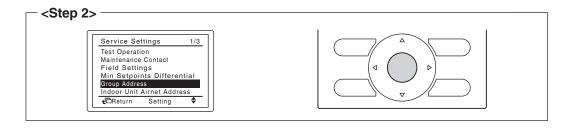
Setting "Remote controller group MAIN" DIII-NET addresses

This section describes how to set "Remote controller group MAIN" DIII-NET addresses.

1. Press and hold the Cancel button for 4 seconds or more. The [Service Settings] menu is displayed.



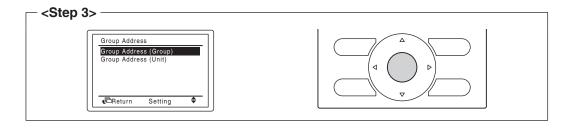
2. Using the Up/Down buttons, select [Group Address] and press the Menu/OK button. The [Group Address] menu is displayed.



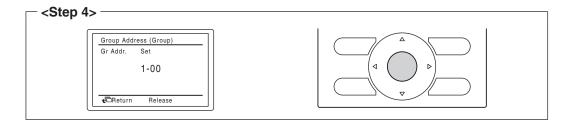
- NOTE -

The **[Group Address]** menu is not displayed when the DGE601A51 is not powered on. Power on the DGE601A51 and wait for a while before trying to operate the remote controller. The **[Group Address]** menu is also not displayed when the DGE601A51 is not communicating with the indoor units normally. Check that the cables are connected correctly.

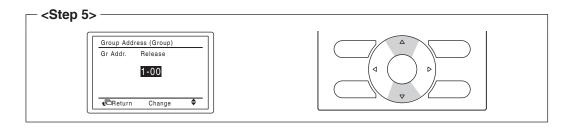
3. Using the Up/Down buttons, select [Group Address (Group)] and press the Menu/OK button. The current address setting is displayed.



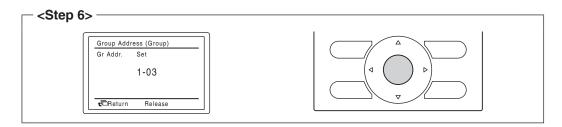
4. If an address is already [Set], press the Menu/OK button to release the current address setting. The mode indication changes from [Set] to [Release], and you are now ready to change the address.



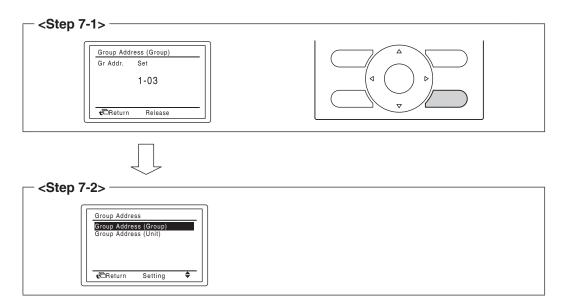
5. Using the Up/Down buttons, select the address you want to set.



6. Press the Menu/OK button.
The indication changes from [Release] to [Set], and the DIII-NET address is set.



7. Press the Cancel button 1 time. You will now return back to the display shown in Step 7-2.



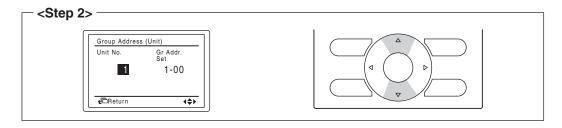
Setting "Remote controller group SUB" DIII-NET addresses

This section describes how to set "Remote controller group SUB" DIII-NET addresses. Set them if necessary.

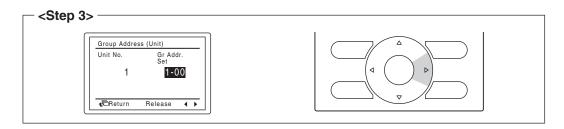
1. Using the Up/Down buttons, select [Group Address (Unit)] and press the Menu/OK button. The current address setting is displayed.



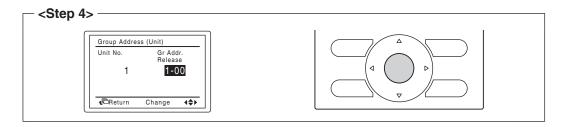
2. Using the Up/Down buttons, select the [Unit No.] you want to set.



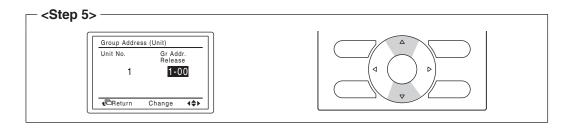
3. Press the Right button and move to the [Gr Addr.].



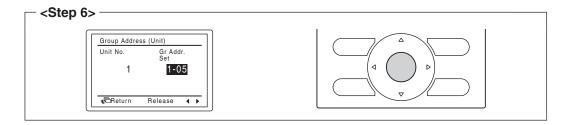
4. If an address is already [Set], press the Menu/OK button to release the current address setting. The indication changes from [Set] to [Release], and you are now ready to change the address.



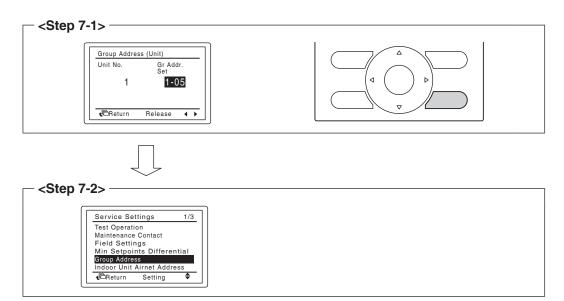
5. Using the Up/Down buttons, select the address you want to set.



Press the Menu/OK button.
 The indication changes from [Release] to [Set], and the DIII-NET address is set.



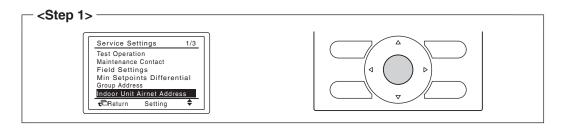
7. Press the Cancel button 2 times. You will now return back to the display shown in Step 7-2.



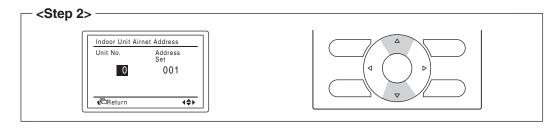
Setting indoor unit Airnet addresses

This section describes how to set indoor unit Airnet addresses.

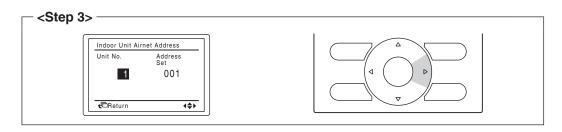
1. Using the Up/Down buttons, select [Indoor Unit Airnet Address] and press the Menu/ OK button. The current Airnet address setting is displayed.



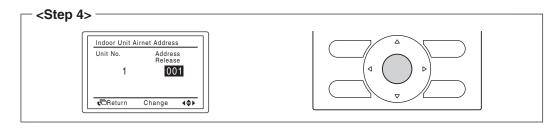
2. Using the Up/Down buttons, select the [Unit No.] you want to set.



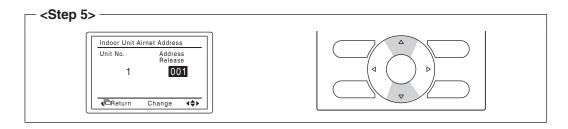
3. Press the Right button, move to the [Address].



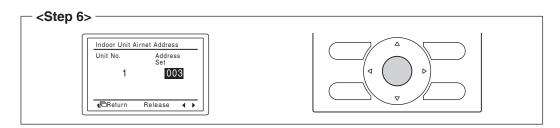
4. If an address is already [Set], press the Menu/OK button to release the current address setting. The indication changes from [Set] to [Release], and you are now ready to change the address.



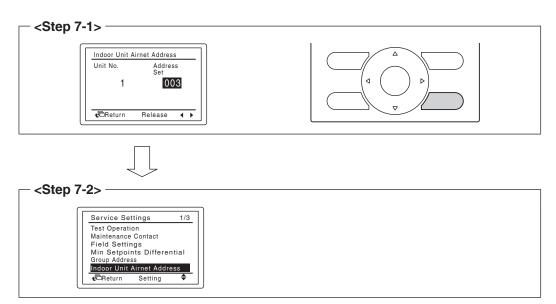
5. Using the Up/Down buttons, select the Airnet address you want to set.



Press the Menu/OK button.
 The indication changes from [Release] to [Set], and the Airnet address is set.



7. Press the Cancel button 1 time. You will now return back to the display shown in Step 7-2.



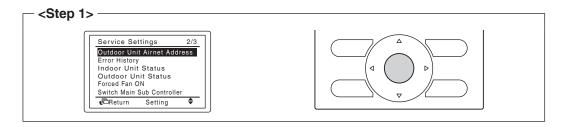
Setting outdoor unit Airnet addresses

This section describes how to set outdoor unit Airnet addresses.

In the following cases, refer to "5.3 Setting address on the outdoor unit" and set an Airnet address for the outdoor unit.

- Multiple systems exist in 1 remote controller group.
- [Outdoor Unit Airnet Address] is not displayed on the service settings display.
- Using the Up/Down buttons, select [Outdoor Unit Airnet Address] and press the Menu/OK button.

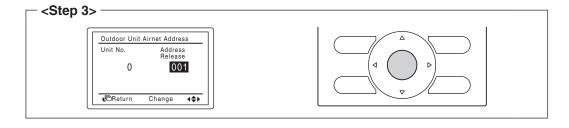
The current Airnet address setting is displayed.



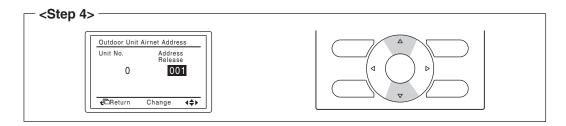
2. Press the Right button, move to the [Address].



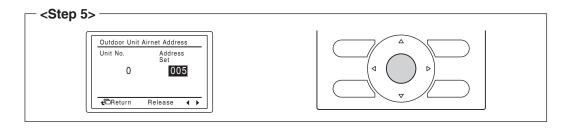
3. If an address is already [Set], press the Menu/OK button to release the current address setting. The mode indication changes from [Set] to [Release], and you are now ready to change the address.



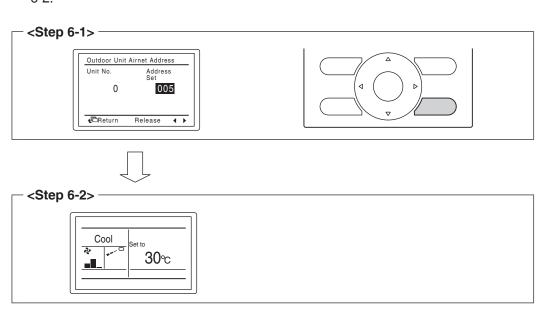
4. Using the Up/Down buttons, change the Airnet address.



Press the Menu/OK button.
 The mode indication changes from [Release] to [Set], and the Airnet address is set.



6. Press the Cancel button 2 times. You will now return back to the display shown in Step 6-2.



5.3 Setting address on the outdoor unit

Setup on the outdoor unit

To use the DGE601A51, you need to set an Airnet address for the outdoor unit.

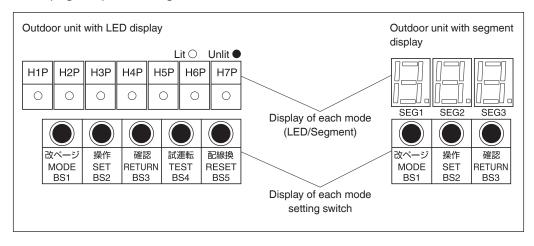
Also, you need to set a demand address and enable demand setting if necessary.

To set the address of an outdoor unit, you can use the push buttons located on the unit's printed circuit board.

The current setting or operating status of an outdoor unit is indicated by the outdoor unit's LED or segment display.

For details, refer to the service manual of the air conditioner.

<LEDs (segment) and setting switches for each mode>



5.3.1 Steps for setting the outdoor unit Airnet address

If you cannot set the outdoor unit Airnet address with the remote controller, follow the procedure below to perform setting.

Press the BS1 button for 5 seconds or more.
 The LEDs and segments will be in the state shown below.

LED (segment) display										
Outdoor unit of the LED display								Outdoor unit of the segment display		
H1P	P H2P H3P H4P H5P H6P H7P						SEG1	SEG2	SEG3	
0	•	•	•	•	•	•	2	0	0	

- 2. Press the **BS2** button 13 times. (Select the setting value.)
- Press the BS3 button.You can now find out the current AIRNET address setting by the LED (segment).
- Press the BS2 button to change to any Airnet address.
 (Set the Airnet address number within the range of 1 to 63.)
- 5. Press the **BS3** button 2 times to confirm the AIRNET address setting.
- 6. Press the BS1 button 1 time to return to the normal mode.

5.3.2 Setting the demand address and enabling demand setting

Set the demand address.

Press the BS1 button for 5 seconds or more.
 The LEDs and segments will be in the state shown below.

LED (segment) display										
Outdoor unit of the LED display								Outdoor unit of the segment display		
H1P	H1P H2P H3P H4P H5P H6P H7P							SEG2	SEG3	
0	•	•	•	•	•	•	2	0	0	

- 2. Press the **BS2** button 2 times. (Select the setting item.)
- Press the BS3 button.You can now find out the current demand address setting by the LED (segment).
- Press the BS2 button to change to any demand address.(Set the demand address number within the range of 0 to 31.)
- 5. Press the BS3 button 2 times to confirm the demand address setting.

Next, enable demand setting.

- 6. Press the **BS2** button 12 times. (Select the setting item.)
- 7. Press the **BS3** button.

 You can now find out the currently set value (enabled/disabled) by the LED (segment).
- If it is disabled, press the BS2 button 1 time to enable it.The LEDs and segments will be in the state shown below.

	LED (segment) display									
Setting items		Outdo	oor unit	t of the	LED d	isplay		the	door ur segm display	ent
demand setting	H1P	H2P	НЗР	H4P	H5P	H6P	H7P	SEG1	SEG2	SEG3
(enabled)	0	•	•	•	•	0	•	0	0	1

- 9. Press the BS3 button 2 times to confirm the set value.
- 10. Press the **BS1** button 1 time to return to the normal mode.

NOTE

If you want to use the demand control of the External Control Adapter for Outdoor Unit, you do not need to perform this setting.

5.3.3 Setting items LED (segment) display

When you press the **BS2** button and select setting items, the LED (segment) display will be in the state shown below.

Setting items	Outdoor unit of the LED display							Outdoor unit of the segment display			
Outdoor unit	H1P	H2P	НЗР	H4P	H5P	H6P	H7P	SEG1	SEG2	SEG3	
AIRNET address setting	0	•	•	0	0	•	0	2	1	3	
demand address setting	0	•	•	•	•	0	•	2	0	2	
demand setting Enabled/Disabled	0	•	•	0	0	•	•	2	1	2	

The address setting of the outdoor unit is complete.

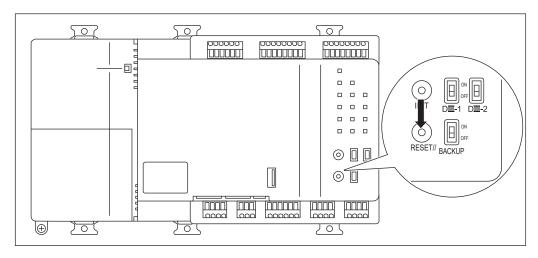
The installation work of DGE601A51 is complete.

6 Quick Operation Guide

6.1 Resetting the unit

The DGE601A51 can be restarted by pressing the [RESET//] button. Operate the [RESET//] button using a thin rod or similar item.

<RESET>



CAUTION

Do not perform the operation with a pointed item. Doing so may result in malfunction.