

27.intelligent Manager

27.1 DAM602B51 / DAM602B52

27.1.1 Model Series (Factory in Charge)

iPU Model Name	Number of units to be connected	Number of DIII-NET port	Number of Digital input
DAM602B51	256 units	4	20
DAM602B52	128 units	2	
Optional	Model name		
DAM002A51	Power Proportional Distribution software		
DAM003A51	ECO software		
DAM004A51	Web software		

* MADE IN JAPAN



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26.1 DAM101A51 / 27.1 DAM602B51 / DAM602B52

27.1.2 Concept and Main Specifications

<Product concept>

- **A/C monitoring panel targeting the simplified BMS market.**

The needs of the current i-Manager A/C monitoring panel will be covered continuously, and we make inroads into the BMS market by expansion of functions.

- **Expansion of function to be realized by optional software.**

Customers can select required functions.

Price can be set up in accordance with required functions.

<Major Specification>

Major modified functions		I-Manager II	I-Manager III
Constitution of iPU (Number of III ports)		2,3,4 port version	2,4 port version
Power proportional distribution		○	DAM002A51 (option)
ECO (Energy saving/Power limit control)		○	DAM003A51 (option)
Web function	Individual control	—	DAM004A51 (option)
	Monitoring of abnormality *1		
	Control setting *2		
	Power proportional distribution data *3		
Analog interlock function		—	○
Corresponding with air cooled chillers and CHESBAC (Monitoring of AIRNET data)		—	○
Number of control points of control group		Max. 128 points	Max. 1024 points
Optimum starting control (from Jan/2007)		—	○
Indication of history of operation source (from Jan/2007)		—	○
Monitoring of continuous operation time		○	
Calendar		Rotation	1-year use disposable
Use of built-in optional modem for AIRNET		—	○

*1: E-mail communication function is included when the equipment is abnormal.

*2: Schedule control setting, Set temperature control setting

*3: PPD software(DAM002A51) is required for the PPD data available on web.

27.1.3 Installation

Please read these "SAFETY CONSIDERATIONS" carefully before installing this unit and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference. This unit comes under the term "appliances not accessible to the general public".

Meaning of warning, caution and note symbols,
▲ WARNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury.
▲ CAUTION Indication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
▲ NOTE Indication situation that may result in equipment or property-damage-only accidents.

▲ WARNING

Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine by yourself. Improper installation may result in electric shocks or fire.

Perform installation work in accordance with this installation manual. Improper installation may result in electric shocks or fire.

Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in electric shocks, fire or the unit falling.

Carry out the specified installation work after taking into account earthquakes. Improper installation work may result in the equipment 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 electric shocks or fire.

Make sure that all wiring is secured, the specified wires are used, and no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.

When wiring the power supply and connecting the remote controller wiring and transmission wiring, 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 electric shocks, fire or the terminals overheating.

Before touching electrical parts, turn off the unit.

Ground this unit. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding may result in electric shocks.

Do not reconstruct or change the settings of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may result.

Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.

Install an leak circuit breaker, as required. If an leak circuit breaker is not installed, electric shock may result.

Do not install this unit in the following locations.

- (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen, plastic parts may deteriorate and fall off or result in water leakage.
- (b) where corrosive gas, such as sulfuric acid gas, is produced, Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) near machinery emitting electromagnetic waves, Electromagnetic waves may disturb the operation of the control system and result in malfunction of the equipment.
- (d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled, Operating the unit in such conditions may result in fire.

▲ CAUTION

Be very careful about product transportation.

Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. 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.

▲ NOTE

Install this unit, power supply wiring and connecting wires at least 3.5ft. away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 3.5ft. may not be sufficient enough to eliminate the noise.)

This unit is a class A product.

In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

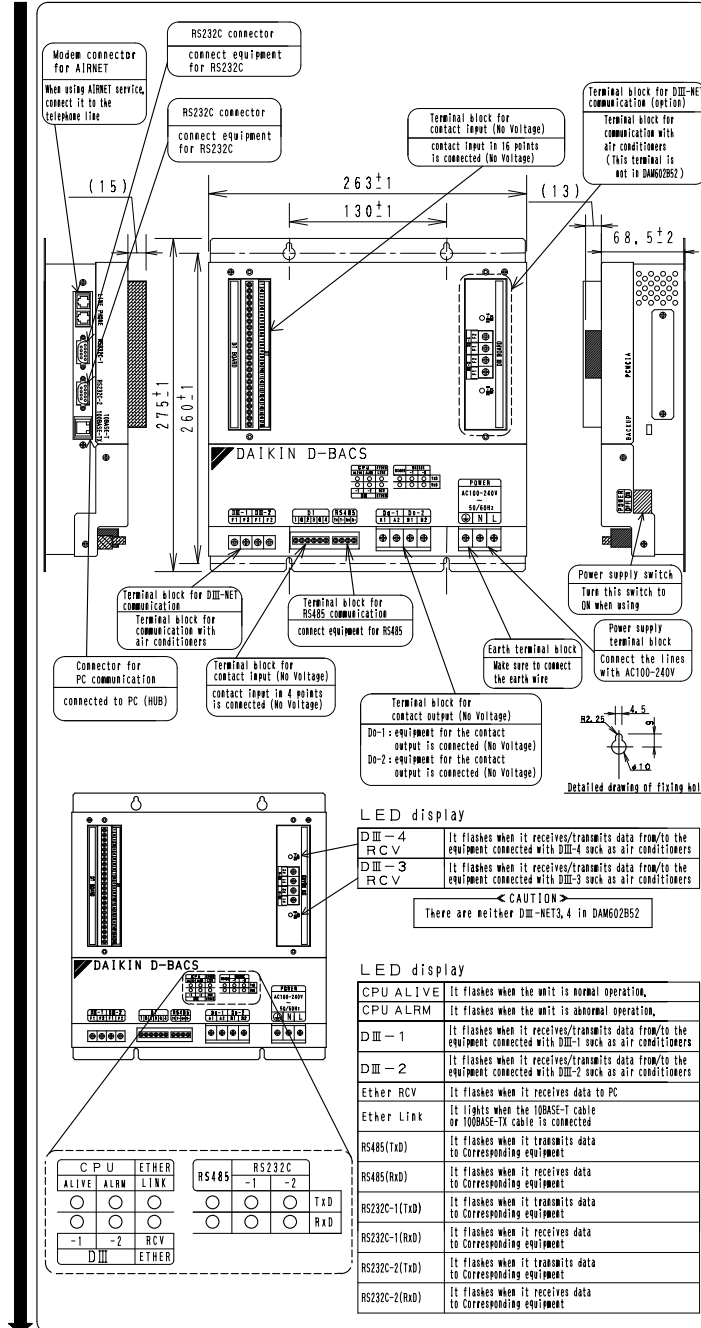
1 Components

The following parts are attached to this unit. Make sure to check them before installation.

intelligent Processing Unit	1 set
INSTALLATION MANUAL	1 copy

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2 Names and functions of each part



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Installation

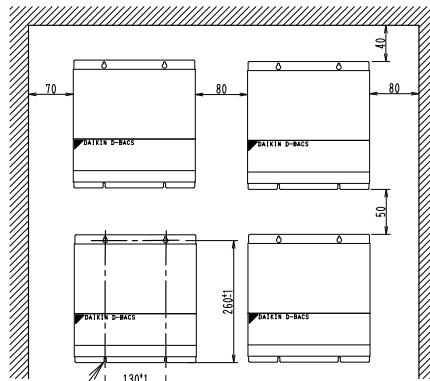
Don't fail to turn OFF the indoor unit power switch before installing Intelligent Processing Unit. Failure to observe this instruction could result in electric shock.

Location

Make sure to install the unit on the inside of the inaccessible and lockable (or needed to use exclusive tools to open) electrical component box installed indoors where the effect of electromagnetic wave or dust can be avoided. The minimum depth required for installation is 100mm.

Required installation space

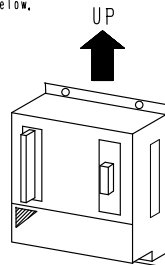
Keep the minimum amount of space indicated in the below drawing from walls, and between units when installed in series.



Fix the intelligent Processing Unit firmly with the installation screws(M4)

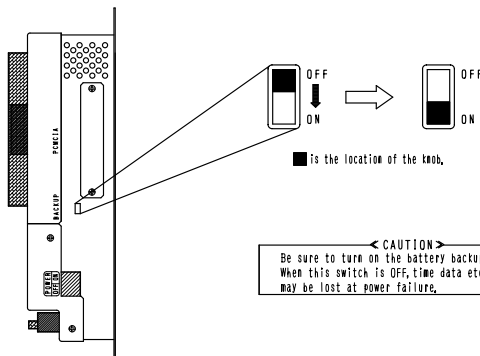
How to install

For installation direction follow the drawing shown below.



CAUTION
Make sure to install the unit vertically. Do not install the unit horizontally, because it may cause malfunction.

Setting "BACK-UP BATTERY VALIDATE" switch (shifted to OFF when being shipped from the shop, -- Back-up battery set to INVALIDATE) For the switch to back up the clock, etc, in case of any power failure, actuate it from OFF side (knob is located above) to ON side (knob is located below) as shown in the sketch below.



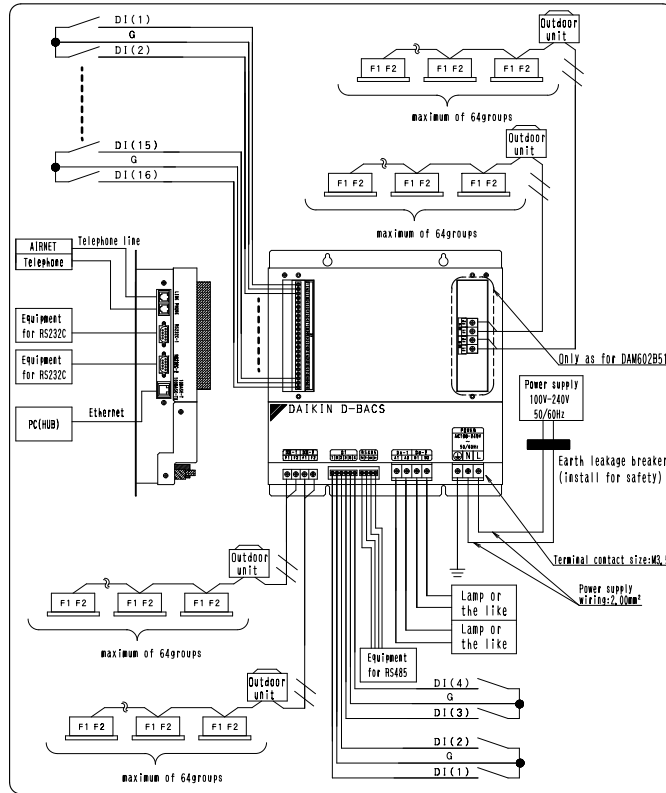
CAUTION
Be sure to turn on the battery backup switch. When this switch is OFF, time data etc, may be lost at power failure.

TO BACK

4 「DIII-NET master」 setting

Make sure to connect the unit with 「DIII-NET master」
 Remove the master central setting connectors of the
 intelligent Touch Controller or centralized management controller or ON/OFF controller
 When using together with other centralized controllers such as
 intelligent Touch Controller or centralized management controller or ON/OFF controller.

5 Malfunction of unit

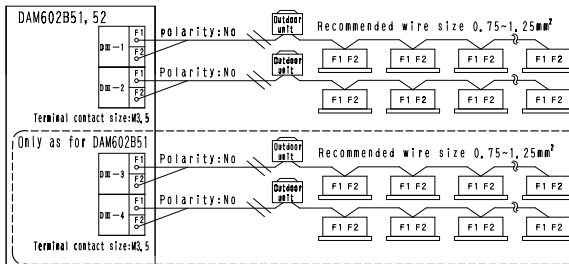


6 Electric Wiring Connection

Don't fail to turn OFF the indoor unit power switch before installing intelligent Processing Unit.
 Failure to observe this instruction could result in electric shock.

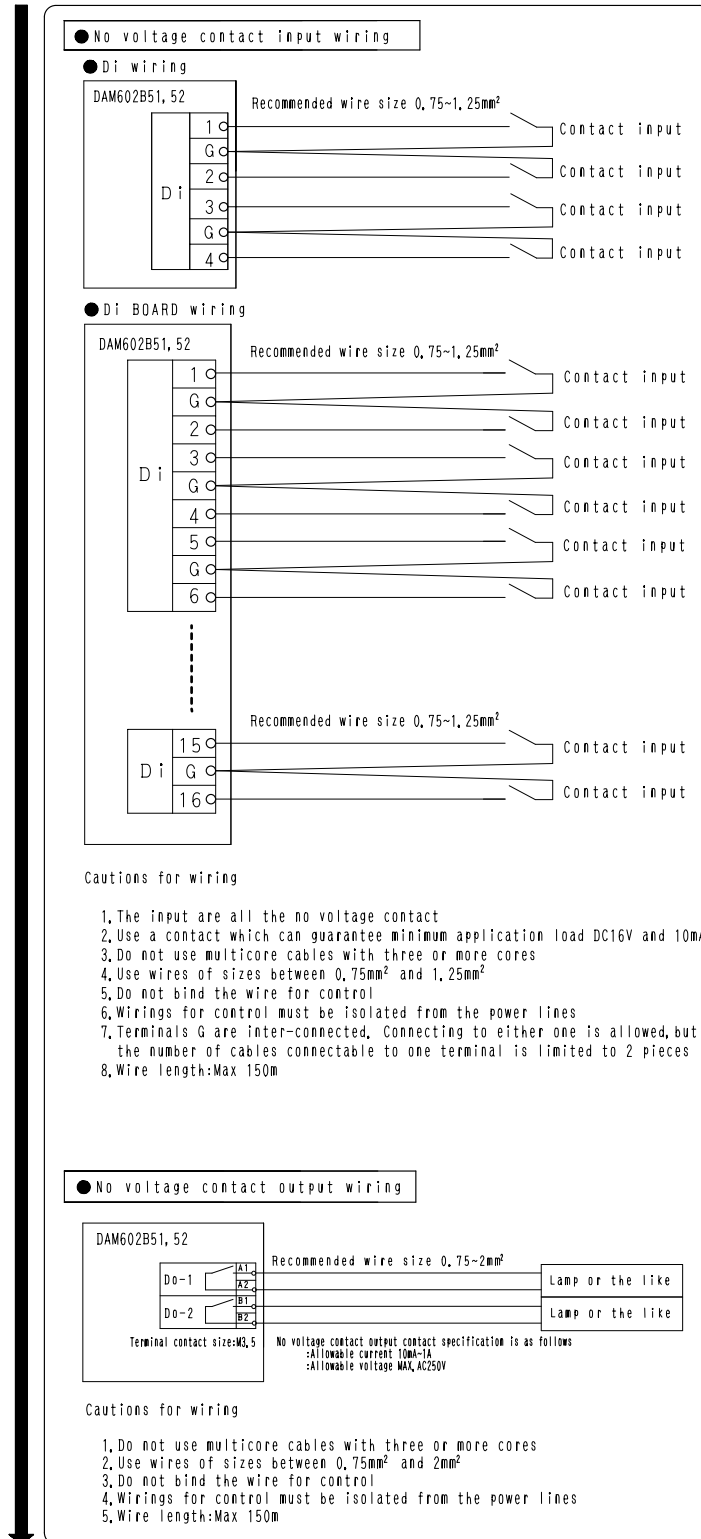
Everything relating with field wiring must be supplied in the field.

DIII-NET wiring



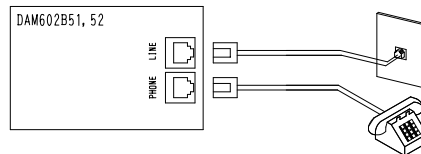
Cautions for wiring

- 1, Do not use multicore cables with three or more cores
- 2, Use wires of sizes between 0.75mm² and 1.25mm²
- 3, Do not bind the wire for DIII-NET
- 4, Wirings for DIII-NET must be isolated from the power lines
- 5, Wire length: Max 1000m



● Connection to public telephone line

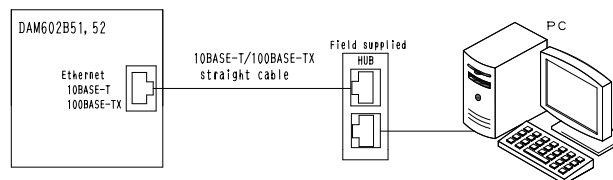
Connect to the telephone line in order to monitor the air-conditioner via AIRNET service. Connect to modular cable from the public telephone line to the upper connector with a stamping of LINE, and connect the modular cable of the telephone to the lower connector with a stamping of PHONE, as shown in the sketch below.



Cautions for wiring

1. Don't clamp these cables together with high voltage cables. Failure to observe this instruction would cause control error.
2. When using AIRNET service, it is necessary to use a separate modem specified by us and enter into Maintenance Agreement with charge.

● Ethernet communication wiring



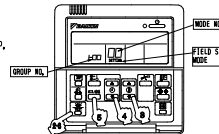
Cautions for wiring

Don't clamp these cables together with high voltage cables. Failure to observe this instruction would cause control error.

7 Setting group No. for centralized control

Set the group number of each group of the indoor unit from the remote controller. (In case of no remote controller, also connect the remote controller and set the group No. Then, remove the remote controller.)

- (1) Turn ON the power of the indoor unit and intelligent Processing Unit.
(Unless the power is ON, no setting can be made.)
Check that the installation and electrical wiring are correct before turning the power supply ON. (When the power supply is turned ON, all LCD appear once and the unit may not accept the operation for about one minute with the display of "BB".)
- (2) While in the normal mode, hold down the "MODE" button for a minimum of 4 seconds. The remote controller will enter the FIELD SET MODE.
- (3) Select the MODE No. "00" with the "MODE" button.
- (4) Use the "GROUP" button to select the group No. for each group.
(Group numbers increase in the order of 1-00, 1-01, ... 1-15, 2-00, ... 8-15)
- (5) Press "MODE" to set the selected group No.
- (6) Press "MODE" to return to the NORMAL MODE.



NOTE • For details on making settings from the simplified remote controller, refer to the instruction manual of the unit.
• See the instruction manuals which came with the Ventiair and adapters (i.e., multi-purpose adapters) for details on their Group No. settings.

NOTICE Be sure to keep the operation manual for maintenance.

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