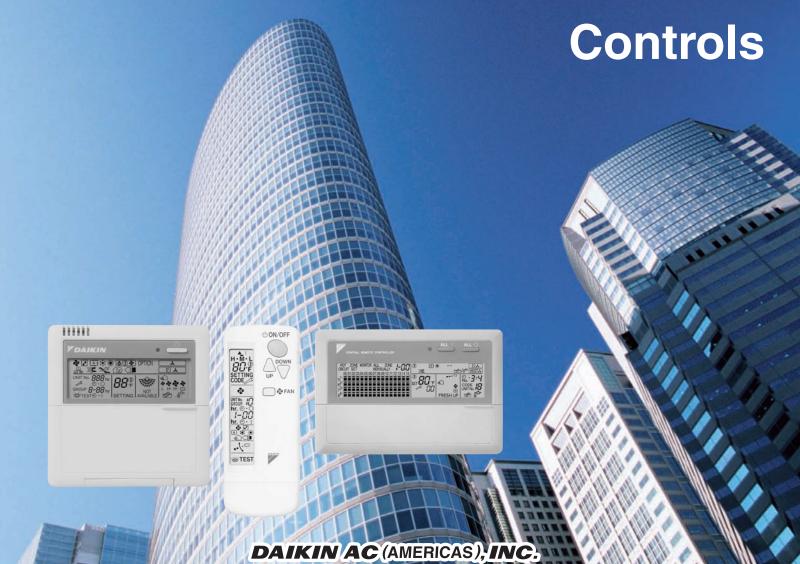


R-410A

Engineering Data





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Control Systems EDUS39-605

1. Control Systems

Optional Accessories of Operation Control System

No.	Item	Туре	FXFQ~MVJU	FXSQ~MVJU	FXMQ~MVJU	FXAQ~MVJU	FXLQ~MVJU FXNQ~MVJU	FXHQ~MVJU	FXDQ~MVJU
1	Remote controller	Wireless	BRC7C812	BRC	4C82	BRC7E818	_	BRC7E83	BRC4C82
'	hemote controller	Wired				BRC1C71			
2	Wired 7-day programmable remote	controller				BRC1D71			
3	Remote sensor					KRCS01-1			
4	Installation box for adaptor PCB		KRP1B98		_	_		KRP1C93	KRP1B101
5	Central remote controller		DCS302C71						
5-1	Electrical box	KJB311A							
6	Unified on/off controller		DC\$301C71						
6-1	Electrical box		KJB212A						
7	Schedule timer	DST301BA61							
8	External control adaptor for outdoor unit		DTA104A62 [★]	DTA1	04A61	_	DTA104A61	DTA104A62 [★]	DTA104A53 [★]
9	D3-NET Expander adaptor	DTA109A51							
10	Simplified remote controller		_	BRC2A71		_	BRC2A71	_	BRC2A71
11	11 Adaptor for wiring			RP1B72 ★ KRP1B71					_
12	12 Wiring adaptor for electrical appendices (2)			KRP4A71 KRP4A72 [★] KRP4					

C:3D043022C

Notes:

Building management system

	Part name			Model No.	Function				
Touch	Basic	Air-Conditioning management system that can be controlled by a compact all-in-one unit.							
Intelligent Tou Controller	Option	Software	Web	DCS004A71	Monitors and controls the air conditioning system using the Internet and Web browser application on a PC.				
<u></u>	*2 Interface	for use in BA	.Cnet [®]	DMS502A71	Interface unit to allow communications between VRV and BMS. Operation and monitoring of airconditioning systems through BACnet® communications.				
Communication Line	Optional DII	l board		DAM411A1	Expansion kit, installed on DMS502A71, to provide 3 more DIII-NET communication ports. Not usable independently.				
ommo	Optional Di	board		DAM412A1	Expansion kit, installed on DMS502A71, to provide 16 more wattmeter pulse input points. Not usable independently.				
ŏ	*3 Interface	for use in LON	Works [®]	DMS504B71	Interface unit to allow communications between VRV and BMS. Operation and monitoring of airconditioning systems through Lon Works® communication.				
alog	Unification adaptor for computerized control			Unification adaptor for computerized control DCS302A72 Interface between the central monitoring board and central control un				Interface between the central monitoring board and central control units	
Contact/Analog signal	Wiring adap appendices	tor for electric	al	KRP4A71-74	To control the group of indoor units collectively, which are connected by the transmission wiring of remote controller.				
Cont		ntrol adaptor fo e installed on	or outdoor indoor units.)	DTA104A53, 61, 62	Cooling/Heating mode change over. Demand control and Low noise control are available between the plural outdoor units.				

Note:

^{*1.} Installation box (No.4) is necessary for each adaptor marked with an asterisk. 2. LONWORKS® is a registered trade mark of Echelon Corporation.

^{*1.}BACnet® is a registered trademark of American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE).

^{*2.}Lon Works® is a registered trademark of Echelon Corporation.

2. Control Devices

2.1 BRC1C71 Wired Remote Controller

The optional Remote Controller for indoor units provides versatile system control.

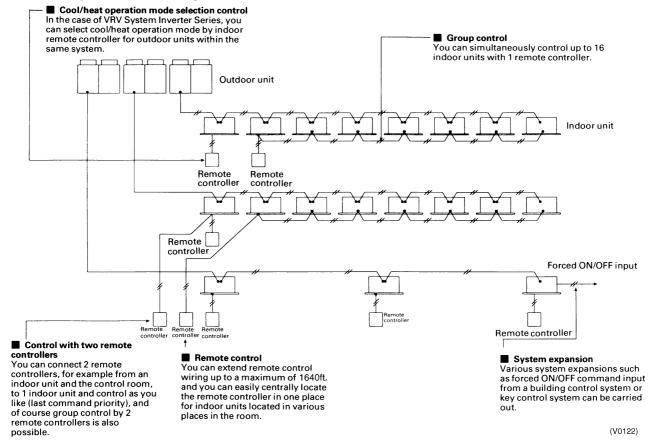
Remote controller wiring for a simplified BRC2A71 Remote Controller is the same as that of the standard BRC1C72 Remote Controller. Because the functions of the simplified remote controller are limited, we recommend using in combination with a central remote controller.

2.1.1 Appearance and Functions



- Large liquid crystal screen displays complete operating status.
- Digital display allows temperature settings in 1°F units.
- Operation start/stop can be programmed using timer for periods up to 72 hours
- Thermostat sensor provides room temperature control for optimum comfort.
- Microcomputer monitors room temperature and preset temperature, automatically selecting cool/heat operation. (VRV System Heat Recovery Series only)
- Use any indoor remote controller to select cool, heat, or fan mode without using the main cool/heat selection switch.
- Continuous monitoring of 40 possible malfunctions with self-diagnosing capability for messaging you immediately in the event of a problem.
- Allows a variety of field settings from remote controller.

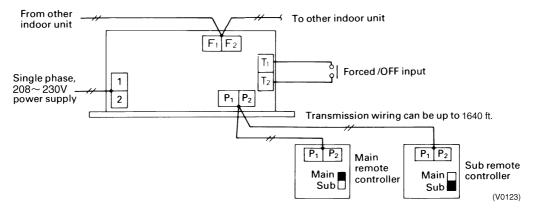
2.1.2 Example of Control by Remote Controller



2.1.3 Two Remote Controllers

1 indoor unit is controlled by 2 remote controllers from 2 separate locations

This is a convenient system for operating an office indoor unit from the reception area, or an indoor unit from a local or remote location.



- Operation mode of the indoor unit is last command priority.
- Remove the front panel of the remote controller and set the main/sub changeover switch on the PC board to MAIN for the main remote controller, and to sub SUB for the sub remote controller.

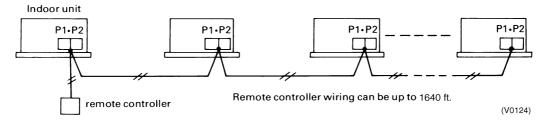
Note

The remote controller is equipped with a thermostat sensor. If the main and sub remote controllers are mounted in separate rooms, set the main remote controller so that its thermostat sensor is not used so that it does not determine the temperature for all rooms.

2.1.4 Group Control

Simultaneous control of up to 16 units with a single remote controller:

The following diagram illustrates a convenient system for simultaneous control of several indoor units on a wide, single floor.

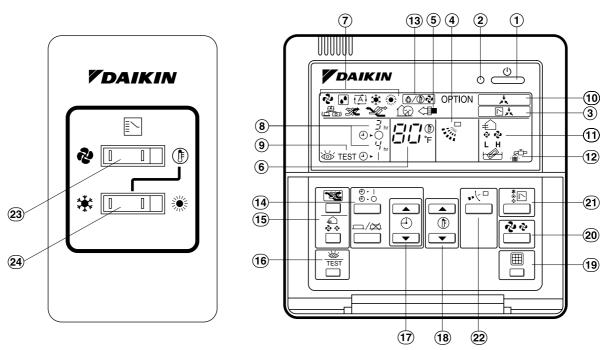


- Wiring for remote controller group control has no polarity, therefore P₁ and P₂ can be switched.
- All indoor units within the group have the same setting, and each indoor unit is controlled individually by its own built-in thermostat.
- Because automatic address is used, an address does not have to be set by remote controller for group control.

Note:

Only remote controller wiring is shown.

2.1.5 Remote Controller and Changeover Switch: Name and Function of Each Switch and Display



1. ON/OFF button

Press tto start; press again to stop system.

2. Operation lamp red

The lamp lights during operation.

3. Display indicates changeover under control

It is impossible to changeover heat/cool with the remote controller when this icon is displayed.

4. Display 😴 indicates air flow flap

Refer to the chapter **Operation procedure - Adjusting the air flow direction**.

- 5. Display ← ← OPTION indicates ventilation/air cleaning

Shows the temperature set.

- 7. Display " 🤣 " " 🚺 " " 🔅 " operation mode
 - . Shows current operation mode.
- 8. Display 3 programmed time

Shows the programmed time of the system start or stop.

- 9. Display 🆝 TEST indicates inspection/test operation
- 10. When the inspection/test operation button is pressed, the display indicates current mode. **Display** indicates under centralized control

Indicates system is under centralized control. This is not a standard specification.

11.Display & indicates fan speed

Indicates fan speed selected.

12.Display indicates it is time to clean air filter

Refer to the indoor unit manual.

13.Display ﴿﴿﴾ ﴿ indicates defrost/hot start

Refer to the chapter Operation procedure - Explanation of heating operation.

14. Timer mode start/stop button

Refer to the chapter Operation procedure - Programming start and stop of the system with timer. Timer on/off button Refer to the chapter Operation procedure - Programming start and stop of the system with timer.

5

15.Inspection/test operation button

Only used by qualified service persons for maintenance purposes.

16.Programming time button

Program start and/or stop time.

17. Temperature setting button

Set the desired temperature.

18. Filter sign reset button

Refer to the indoor unit manual.

19.Fan speed control button

Select the fan speed.

20. Operation mode selector button

Select the operation mode. o

21.Air flow direction adjust button

Refer to the chapter *Operation procedure - Adjusting the air flow direction*.

22.Fan only/air conditioning selector switch

Set the switch to **t** for fan only operation or to (**f**) for heating or cooling operation.

23.Cool/heat changeover switch

Set the switch to * for cooling or to * for heating operation.

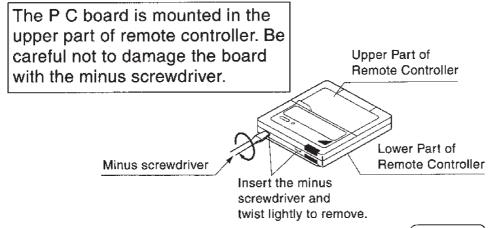
NOTE:

- Unlike actual operation, all indicators are simultaneously displayed in Figure 1 in order to illustrate the many available options.
- If the filter sign lamp lights up, clean the air filter as explained in the indoor unit manual. After cleaning and reinstalling the air filter, press the filter-sign reset button on the remote controller and the sign deactivates.

2.1.6 Installation

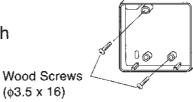
1. Remove the upper part of remote controller.

Insert minus screwdriver into the slots in the lower part of remote controller (2 places), and remove the upper part of remote controller.

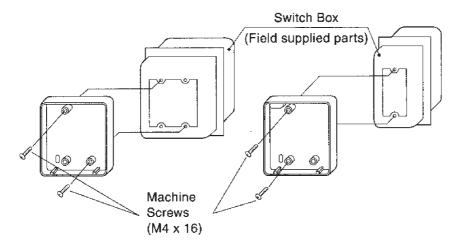


2. Fasten the remote controller.

①For exposed mounting, fasten with the included wood screws (2).



②For flush-mounting, fasten with the included machine screws (2).



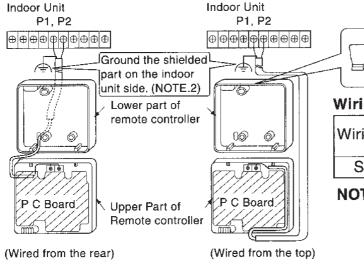
For the field supplied switch box.

NOTE

Choose the flattest place possible for the mounting surface. Be careful not to distort the shape of the lower part of remote controller by over-tightening the mounting screws.

3. Wire the indoor unit.

Connect the terminals on top of the upper part of remote controller (P1, P2), and the terminals of the indoor unit (P1, P2). (P1 and P2 do not have polarity.)



4. Reattach the upper part of remote controller. Be careful not to pinch the wiring when attaching.

NOTE

- 1. The switch box and wiring for connection are not included.
- 2. Do not directly touch the PC board with your hand.

If controlling one indoor unit with two remote controllers

Change the MAIN/SUB changeover switch setting as described below.

NOTE

When wiring, run the wiring away the power supply wiring in order to avoid receiving electric noise (external noise).

Notch the part for the wiring to pass through with nippers, etc.

Wiring Specifications

Wiring Type	Sheathed vinyl code or cable (2 wire) (NOTE.2)
Size	18 – 2AWG

NOTE) 1. Peel the shield and sheath for the part that is to pass through the inside of the remote controller case, as shown in the figure below.

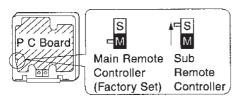


2. Shield wire (2 wire) can be used for remote controller wiring, but it must confirm to EMC (Electromagnetic Compatibility) (Australian regulation).



First, begin fitting from

the clips at the bottom.



Set one remote controller to "main," and the other to "sub."

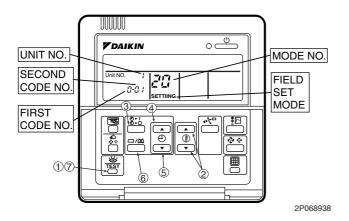
NOTE

- If controlling with one remote controller, be sure to set it to "main."
- Set the remote controller before turning power supply on.

" $\mathcal{B}\mathcal{B}$ " is displayed for about one minute when the power supply is turned on, and the remote controller cannot be operated in some cases.

2.1.7 Field Setting Wired Remote Controller BRC1C71

If optional accessories are mounted on the indoor unit, its settings may have to be changed. Refer to the instruction manual for each setting.



Procedure

- 1. When in the normal mode, press the total button for a minimum of four seconds, and the FIELD SET MODE is entered.
- 2. Select the desired MODE NO. with the button (2).
- 3. During group control, when setting by each indoor unit (mode No. 20, 21 and 23 have been selected), push the button (3) and select the INDOOR UNIT NO to be set. This operation is unnecessary when setting by group.
- 4. Push the upper button and select FIRST CODE NO.
- 5. Push the lower button and select the SECOND CODE NO.
- 6. Push the button 6 once and the present settings are SET.
- 7. Push the button for about one second to return to the NORMAL MODE.

Example: If set for group setting and the time to clean air filter is set to: **FILTER CONTAMINATION-HEAVY**, you should set MODE NO. to [10], FIRST CODE NO. to [0] and SECOND CODE NO. [02].

Field Setting Contents and Code No.

Mode No.	FIRST	Description of So	ttingo				SE	ECO	ND COI	DE NO.	Note)4		
Note)1	CODE No.	Description of Settings			0	1		0	2	0	3	C	4
		Filter Contamination-Heavy/ Light: Setting for display time	UltraLong-Life Type		App 10,0 hour	000		App 5,00 hou	0	_			
	0	to clean air filter. Time alert to clean air filter is cut in half when heavy filter	Long-Life Type	Light	App 2,50 hour	00	ě	App 1,25 hou	0			-	_
10(20)		contamination.	Standard Type		App 200	rox. hours		App 100	rox. hours				
	1	Long-life or Standard filter type: Setting of filter indication time. Change setting to Ultralong-life filter if one is installed			Long Filt				Long- Filter	_	_	_	
	2	Thermostat Sensor in Remote	Controller		Us	se		Not	Use	_	_	_	
	Display Time to Clean Air Filter Calculation (Set when filter sign is not to be displayed				Disp	olay		Do Disp		_		_	
	0	Optional accessories output selection field selection of output for adaptor for wiring			ırned	r Unit ON by nostat	_		Operation Output		Malfunction Output		
	ON/OFF Input from Outside: So to be controlled from outside.		et when ON/OFF is	ı	Forced Off		ON/OFF Control			External Protection Device		=	_
12(22)	2	Thermostat Differential Change remote sensor is to be used.	eover: Set when FXFQ only	1°C		0.5°C		°C	_		_		
	4	Automatic mode differential: Automatic mode differential setting heat recovery series cool/heat		01	1:0	02 : 1	03	: 2	04 : 3	05 : 4	06 : 5	07 : 6	08 : 7
5 Power failure automatic reset: Auto Restart		Not equipped		Equipped		<u> </u>		_	_				
	1	Selection of Air Flow Direction: Set when a blocking pad kit has been installed FXFQ only			F (4 directions)		T (3 directions)		ctions)	W (2 directions)		_	_
13(23)	4 Field set airflow position setting		Draft Prevention		Standard		Ceiling Soiling Prevention						
	5	Field set fan speed selection: Fair discharge outlet for phase c			Stan	dard		Opti cces	onal sory 1	Opti Acces	onal sory 2	_	_

Notes:

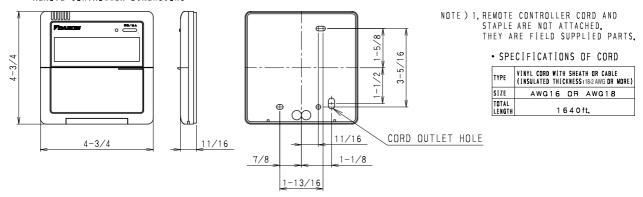
1. Setting is carried out in the group mode. If the mode number inside the parentheses is selected, indoor units can also be set individually.

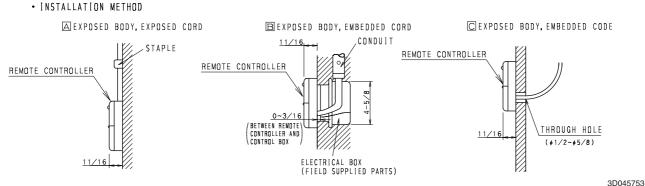
- 2. The SECOND CODE number is set in the bold bordered display \square when shipped from the factory.
- 3. Mode not displayed if the indoor unit is not equipped with that function.
- 4. When returning to the normal mode, [88] may be displayed in the LCD in order for the remote controller to initialize itself.

2.1.8 Dimensions

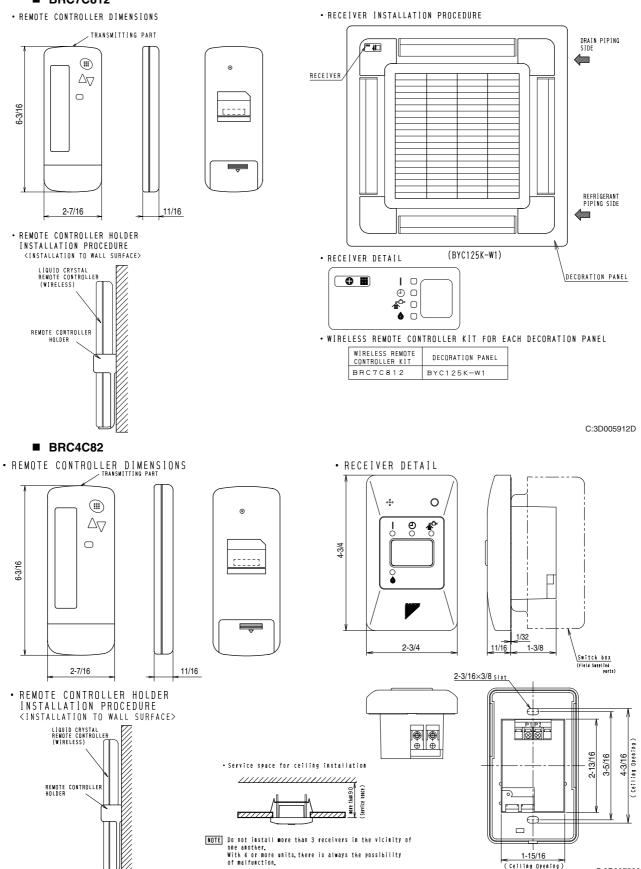
■ BRC1C71

• REMOTE CONTROLLER DIMENSIONS





BRC4C / 7C / 7E Wireless Remote Controller / Receiver ■ BRC7C812 2.2



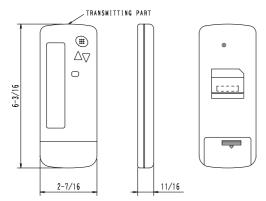
Controls 11

(Ceiling Opening)

C:3D007898A

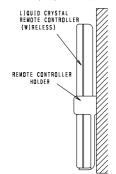
■ BRC7E83

• REMOTE CONTROLLER DIMENSIONS

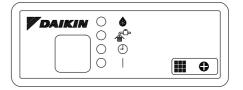


• RECEIVER INSTALLATION PROCEDURE

 REMOTE CONTROLLER HOLDER INSTALLATION PROCEDURE <INSTALLATION TO WALL SURFACE>



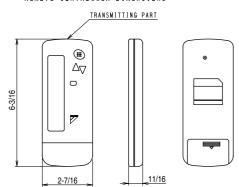
• RECEIVER DETAIL



3D049336

■ BRC7E818

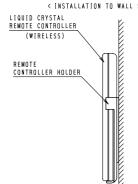
• REMOTE CONTROLLER DIMENSIONS



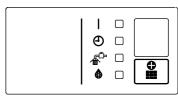
• RECEIVER INSTALLATION PROCEDURE



• REMOTE CONTROLLER HOLDER INSTALLATION PROCEDURE <INSTALLATION TO WALL SURFACE>



• RECEIVER DETAIL

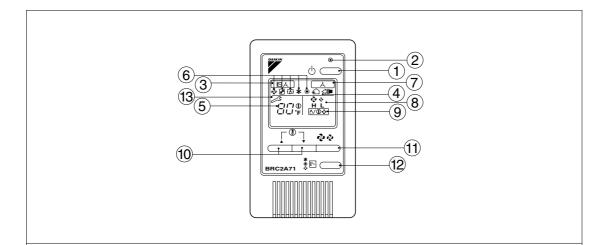


• WIRELESS REMOTE CONTROLLER KIT

WIRELESS REMOTE CONTROLLER KIT	INDOOR UNIT
BRC7E818	FXAQ~MVJU

C:3D034905B

2.3 BRC2A71 Simplified Remote Controller 2.3.1 Name and Function

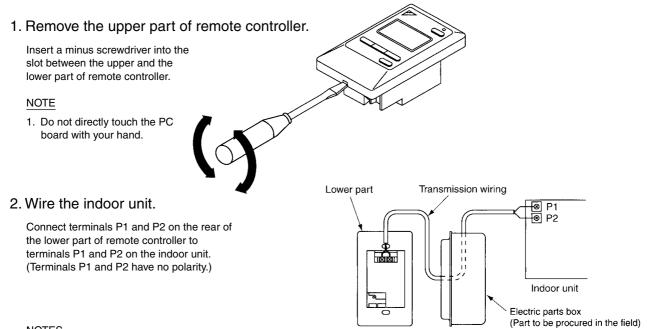


REMOTE CONTROLLER: NAME AND FUNCTION OF EACH SWITCH AND DISPLAY

1	ON/OFF BUTTON		DISPLAY " 🙏 " (UNDER CENTRALIZED CONTROL)
	Press the button and the system will start. Press the button again and the system will stop.	1	When this display shows, the system is UNDER CENTRALIZED CONTROL. (This is not a standard specification)
	OPERATION LAMP (RED)		DISPLAY " 량양 기(FAN SPEED)
2	The lamp lights up during operation. Blinks in case of stop due to malfunction.	8	This display shows the fan speed: HIGH or LOW.
	DISPLAY Ò氐人Ó (CHANGEOVER UNDER CONTROL)		DISPLAY " ᠪ∕⊕ॡ " (DEFROST / HOT START)
3	It is impossible to changeover heating/cooling with the remote controller when it shows this display. (As for details, see "SETTING OF MASTER REMOTE CONTROLLER" in the installation manual attached to the indoor unit.)	9	Indicates that defrost or hot start (during which the fan is stopped till the temperature of air supply rises enough at the start of a heating operation) is in progress.
	DISPLAY Ò⊖⊲≢Ó (VENTILATION/AIR		TEMPERATURE SETTING BUTTON
4	This display shows that the total heat exchanger and the air cleaning unit are in operation. (These are optional accessories).	10	Use this button for SETTING TEMPERATURE of the thermostat. ▲ ; Each press raises the set temperature by 1 F. ▼ ; Each press lowers the set temperature by 1 F. The variable temperature range is between 60 F and 90 F.
	DISPLAY " ۖ [] □ Φ " (SET TEMPERATURE)		FAN SPEED CONTROL BUTTON
5	This display shows the set temperature. Only given during a cooling or heating operation.		Press this button to select the fan speed, HIGH or LOW, of your choice.
	DISPLAY "❖""♪""҈∄"" ‡"" ◎"		OPERATION MODE SELECTOR BUTTON
	(OPERATION MODE)	12	Press this button to select OPERATION MODE.
(6)	This display shows current OPERATION MODE.		DISPLAY " 🧀 " (MALFUNCTION)
	" ® " is not available with outdoor units specially designed for cooling only. " 运 " is reserved only for outdoor units capable of heat recovery.		Indicates malfunction and blinks if the unit stops operating due to malfunction. (As for details, see "TROUBLE SHOOTING" in the operation manual attached to the outdoor unit.)

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2.3.2 Installation



NOTES

- 1. The electric parts box and wiring for connection are not included.
- 2. When wiring, run the wiring away the power supply wiring in order to avoid receiving electric noise (external noise).
- 3. When wiring, refer to the wiring diagram of indoor unit (attached to indoor unit) as well.

WIRING SPECIFICATION

Wiring type	Sheathed wire (2 wire)
Size	AWG18 or AWG16

3. Fasten the remote controller.

Attach the lower part of remote controller to the electric parts box (part to be procured in the field).

NOTE

Mounting screw e. Be (Attached)

Choose the flattest place possible for the mounting surface. Be careful not to distort the shape of the lower part of remote controller by over-tightening the mounting screws.

For the electric parts box to be procured in the field, use optional accessories KJB111A.

4. Initial setting

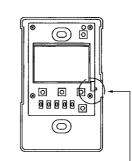
Change the MAIN/SUB changeover switch setting as described below. If controlling one indoor unit with two remote controllers, set one remote controller to "MAIN." and the other to "SUB."

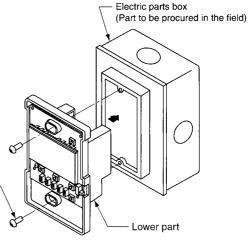


Main Remote Controller (Factory Set)



Sub Remote Controller





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NOTES

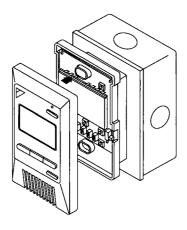
- If controlling with one remote controller, be sure to set it to "MAIN."
- Set the remote controller before turning power supply on.

"88" is displayed for about one minute when the power supply is turned on, and the remote controller cannot be operated in some cases.

5. Reattach the upper part of remote controller.

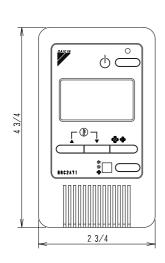
NOTE

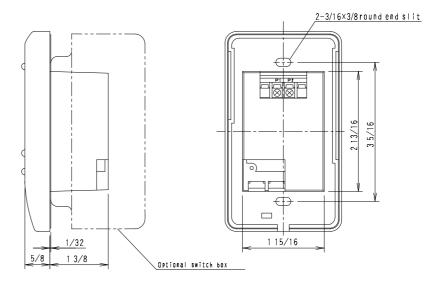
1. Do not directly touch the PC board with your hand.

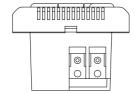


3P146205-2

2.3.3 Dimensions







3D047341

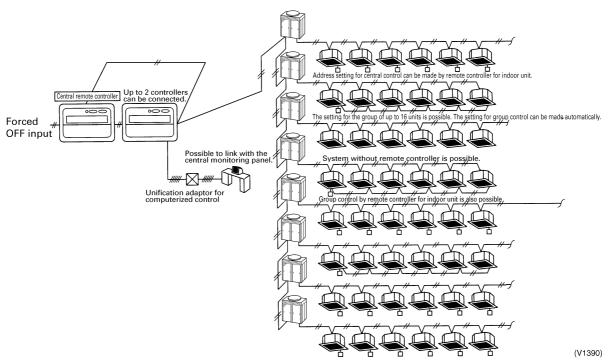
2.4 DCS302C71 Central Remote Controller



- You can connect up to 64 groups of indoor units (maximum 128 units) and operate or monitor ON/OFF, temperature settings, and so forth, by individual zone or together.
- Up to 2 units are connectable within 1 system and up to 4 units in case of the double central control mode.
- Executes zone control for up to 64 zones and is designed for operation efficiency.
- Error contents are displayed in code so that maintenance and inspections can be conducted immediately.
- 1 schedule timer and up to 4 unified on/off controllers can be connected to a single unit, and you can easily extend the central control system according to building size and purpose.
- Applicable wiring methods include bus and star in addition to series wiring.

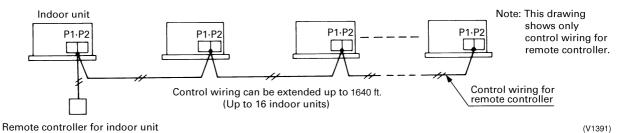
2.4.1 System Configuration

System Outline



System Configuration for Group / Zone Control

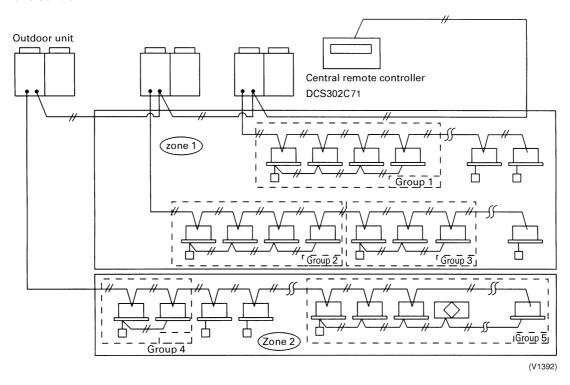
■ Group control



Group control configuration allows all indoor units to be connected by the same remote controller connected to terminal P1 and P2, and all the units in group have the same setting and the same operation.

- The group of indoor units is controlled by the master indoor unit's remote controller.
- The maximum number of indoor units in one group is 16 units.

■ Zone control



■ A zone is a group of indoor units interconnected to terminal F1 and F2 utilizing one central remote controller that applies the same settings to all units.

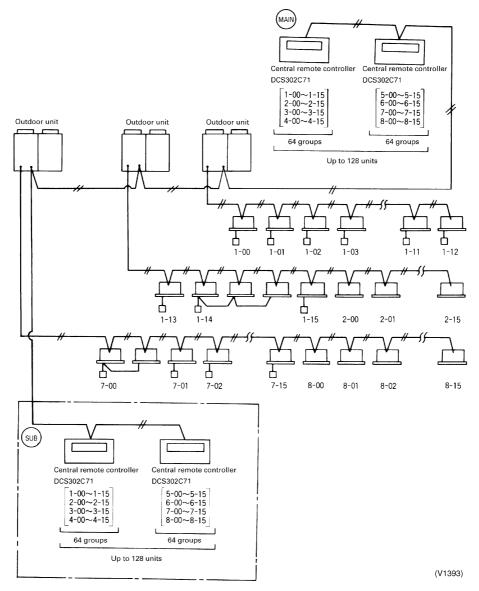
- The zone control of the indoor unit is operated by the central remote controller.
- 1 to 64 zones can be controlled by the central remote controller.
- You can set up to 64 groups in one zone.
- Up to 16 units can be set in one group, and up to 64 groups (up to 128 units) can be connected.

System Configuration (Control by 2 central remote controllers)

- Up to 128 indoor units can be connected in one system.
- 2 or 4 central remote controllers are required. It is possible to control the same unit from 2 locations.
- Up to 16 unified ON/OFF controllers can be connected using 8 controllers covering 2 locations.
- One scheduling timer can be connected.

Notes:

- 1. Electrical power should be supplied to each central remote controller. (Single phase 100~240V)
- 2. When you control by 2 central remote controllers, be sure to set SS3 by the initial setting.



(*) When you control by 2 central remote controllers, the last entered setting takes priority.

Note:

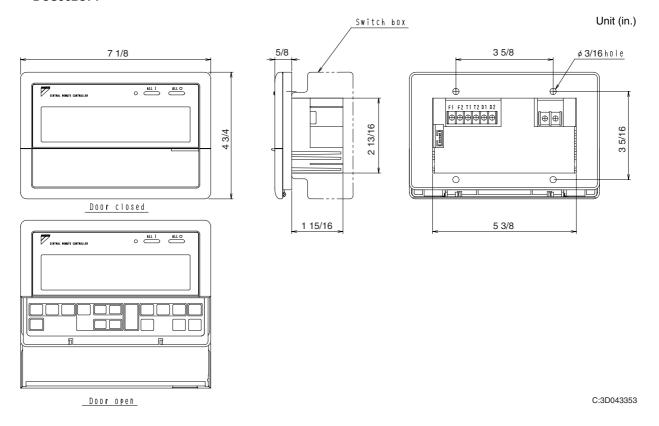
The *Operation Code Setting* cannot be made by the sub side. Be sure to set by the main side.

2.4.2 Specifications / Dimensions

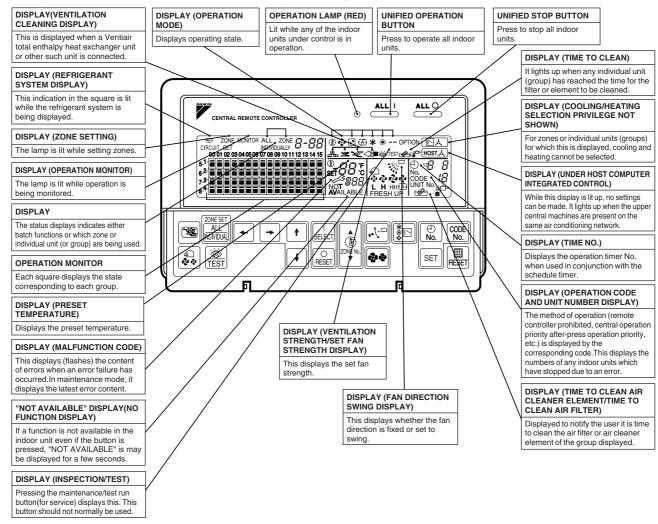
Specifications

	DCS302C71
Power supply voltage / frequency	AC100~240V ±10% 50/60Hz
Power consumption	Max. 8W
Setting data backup	Non-volatile memory preserves data semi-permanently
Effects of instantaneous power failure	No effect for 20 mili-sec. or less
Forced OFF input Operation on the local side cannot be carried out during forced OFF input.	■ No-voltage normal open contact ■ Micro-current contact capable of handling 16VDC and approx. 10mA. ■ Max. 492 ft cable length
Power supply for schedule timer	Power can be supplied to schedule timer. (Max. 1 unit)
Operating ambient temperature / humidity condition	-5~40°C, 95% RH or less (no condensation)
Size (width × height × depth)	7 1/8×4 3/4×2 9/16 exposed portion of front panel: 5/8 (Unit: Inch)
Machine Weight (Mass)	Approx. 0.95 lbs

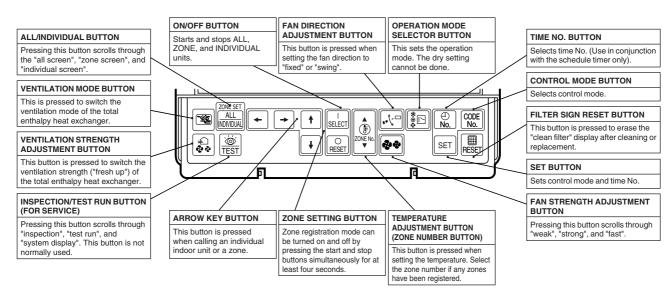
Dimensions DCS302C71



2.4.3 Names and Functions of Operating Part
 Display part DISPLAY (OPERATION MODE) Displays operating state.



Control Section



2.4.4 Description of Functions

Individual Screen, All Screen, Zone Screen

This controller can perform operations in the following screens:

- INDIVIDUAL SCREEN for performing group operations.
- ALL SCREEN for performing operations for all units at once.
- **ZONE SCREEN** for performing zone operations.

Basic functions

Function	Descriptions of outline
Individual/Zone control	Up to 64 groups (Max. 128 units and max. 16 units per group) of indoor units and HRV units can be controlled by individually or by zone.
Unified ON/OFF	ON/OFF can be set for each zone, and can be controlled simultaneously for entire system by push button or by remote controller.
Malfunction code display	The status of each group is always displayed, such as ON/OFF, error, etc. If the error occurs, it displays the malfunction code and type of error with the self-diagnosis function.
Connection of unification adaptor for computerized control	By connecting the optional unification adaptor for computerized control, it can be linked with the central monitoring panel by contact signal, which enables you to operate ON/OFF simultaneously, and monitor the operating status.
Remote control acceptance/rejection	It is possible to restrict the function of local remote controller:Only ON operation rejection, or ON/OFF operation rejection.
2 central controllers	By connecting two central remote controllers, the same air-conditioner can be controlled from 2 locations: By tenant or administration office.

Zone control functions

Function	Descriptions of outline
Zone control	The zone function is a function to control one or more groups of airconditioners, and operation settings, such as ON/OFF, can be made by zone.
Up to 64 zones	Up to 64 zones (64 groups for each zone) can be set. However, the group setting spreading over the plural zone cannot be set.
Zone register	When the power is supplied the first time, each group is registered in its respective zone. You can register several groups in the same zone by switch, to enable simultaneous operation of the units immediately. The temperature setting is also controlled by zone simultaneously.
Zone setting	By adding the zone setting function (Zone "0") from the central remote controller, you can make one setting for all the zones registered by single operation.
ON/OFF control of zone	For example, if there are three groups in one room and if you register these three groups as one zone, you can operate all three simultaneously by single operation (ON/OFF, temperature setting, and so forth. You can also operate each group individually by local remote controller.
Maintaining zone setting	Even if the power is turned off, the zone configurations set are maintained semi-permanently and saved in non-volatile memory.
Cool/Heat changeover by zone	The cool/heat changeover can be made by zone if you establish a master group for Cool/Heat changeover for that zone.
Batch operation	The same setup is possible at one operation to all the groups registered on the "All" screen.
No local remote controller	Even without a local remote controller, you can still perform the same batch operation. However, in this case, each air-conditioning unit consists counts as group.
Combination with other controllers	You can combine opeations with a unified ON/OFF controller and a schedule timer. Refer to the system configuration for details.
Connection to central monitoring panel	You can combine with an Interface for use in BAC net [®] and a data station in order to connect to the central monitoring panel. A parallel interface can also be connected.

Cool/Heat changeover and settings

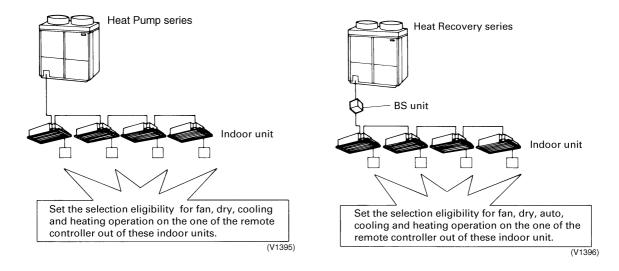
Function	Descriptions of outline
Possible control	The operation mode of the outdoor unit can be changed by the local remote controller or by the central remote controller. For test operation, change setting of cool/heat selector switch of the outdoor unit.
Remote controller acceptance/rejection	You can set acceptance/rejection on the central remote controller with the local remote controller.
NOT AVAILABLE display	Pressing a button for an unavailable function in the indoor unite activates the NOT AVAILABLE display.

NOTE:

Cool/heat Mode-setting capability for the Indoor Unit Remote Controller:

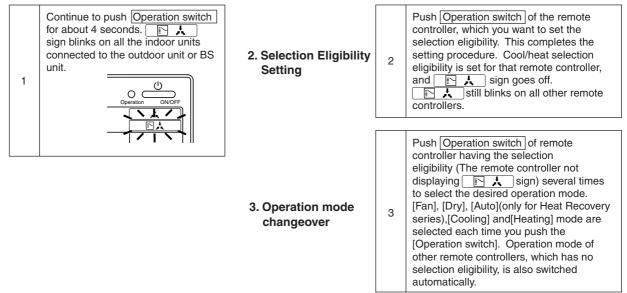
The outdoor unit's operation mode of fan, dry, auto (available only with Heat Recovery units), cooling, or heating can be selected using the indoor unit's designated primary remote controller that is connected to the outdoor unit. The settings chosen for the primary remote controller determine the settings for the remaining controllers. For the Heat Recovery series, if 2 or more indoor units are connected to one BS unit, you must set the fan, dry, auto, cooling, or heating operation on the primary remote controller connected to the BS unit.

Only remote controller designated for settings can change the operation mode.



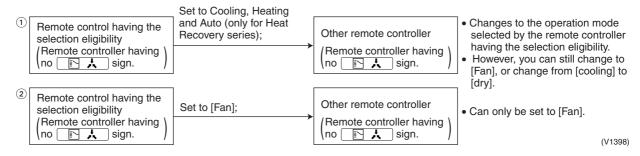
- Setting method for cool/heat
- 1. Preparation
- When turning on the power the first time, the **CHANGEOVER UNDER CONTROL** sign blinks.

Use the following procedure to set operation mode:



(V1397)

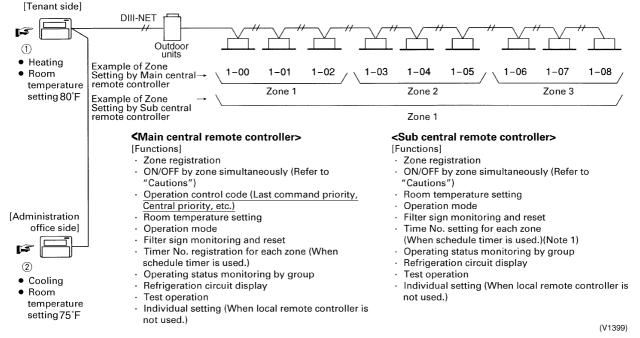
Description of operation and its function:



Note: Selection modes are also available on the wireless remote controller. It is not possible to set **DRY** mode with the Central Remote Controller.

Control with Two Central Remote Controllers

The central remote control equipment is the newly designed **C** type that allows 2 central remote controllers to be connected as shown in the following example:



Note:

If a timer number is registered by the sub central remote controller, the timer mode for the local remote controller (mode no. 8, 9, 18, and 19) for the same units set by the Main remote controller are deactivated.

Explanation of the above figure

If you operate the central remote controller in the sequence of 1 and 2, the indoor unit is set for cooling / temperature setting 75°F.

However, the display of zone setting of the master remote controller remains at heating / temperature setting at 80°F.

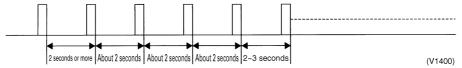
Cautions

- Operation code cannot be set by the sub central remote controller.
- Combined zone operation can only be set by zone registration of the main central remote controller.
- Both main and sub central remote controller are operated by the most recent command for the functions other than the above.

The display on the central remote controller cannot be changed by other controllers. On the display for the group, you can monitor the present operation status.

Sequential Start

Operation command from central control equipment



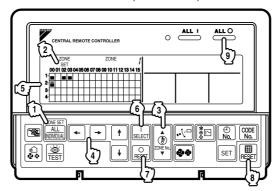
Each unit operates in sequence. For example, if you set simultaneous operation by the central remote controller for groups 1-00 ~ 4-15, and 5-00 ~ 8-15, two outdoor units start simultaneously.

Registering Zone

It is possible to set multiple groups as one zone and control each zone separately.

No zones are registered when the unit is shipped from the factory.

Zone registration can be done in the individual screen, all screens, or the zone screen.



Registration

- TPressing the ALL/INDIVIDUAL button for four seconds. Displays ZONE SET.
 Zone Number 1 is displayed, and if there are any groups already registered in the displayed zone, a will light up on the operation monitor.

Keeping the button pressed down moves it rapidly.

3. 🗊 To the group you wish to 🐨 register using the arrow keys.

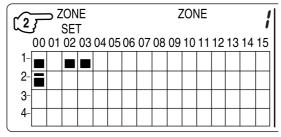
Keeping the button pressed down moves it rapidly.

4. F Press the SELECT button to register that group to the zone.

The display lights up on all the selected units.

goes off.

Repeat steps 3 and 4 until all the units you wish to register to the zone have been added.



In this example, a screen is shown with units 1-00, 1-02, 1-03, and 2-00 registered to Zone Number 1.

- 5. Repeat steps 2 to 4 to register to the next zone.
- 6. Once zone registration is complete, T press the ALL/INDIVIDUAL button to turn off ZONE SET display and return to the individual screen.

The display returns to the normal screen if nothing is done for one minute when in zone registration mode.

NOTE:

It is impossible to register one group to several different zones.
If this is done, the last zone registered is effective.

Batch deletion of zone registration

1. Pressing the ALL O for at least four seconds while pressing the FILTER SIGN RESET button when ZONE SET is displayed deletes all zone registrations.

Zone setting

To set all zones for uniform operation, the central remote controller should display **Zone 0** with the following modes selected:

- Operation mode
- Control mode
- Room temperature setting
- Time Clock No.

NOT AVAILABLE Display

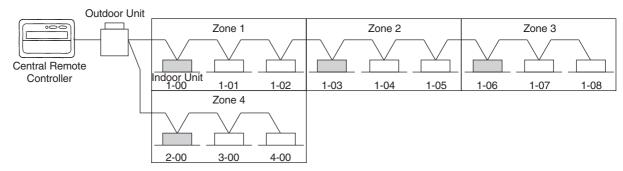
If a particular function is not available for the unit, **NOT AVAILABLE** displays for approximately two seconds when you attempt to access that function.

If another unavailable function button is pushed, the NOT AVAILABLE display will continue an additional two seconds.

Monitor in a zone unit

Operating and monitoring the system in a group or by individual zones is enabled from the DCS302C71. Monitoring in a zone is accessed by using an indoor unit with a lower address within the zone as the Main Indoor Unit.

The following options are displayed for monitoring zones:



	Main Indoor Unit	Operation Code Timer No.	Temp. Display	Operation Mode
Zone 1	1-00	1-00	1-00	1-00
Zone 2	1-03	1-03	1-03	1-03
Zone 3	1-06	1-06	1-07	1-07
Zone 4	2-00	2-00	N/A	N/A

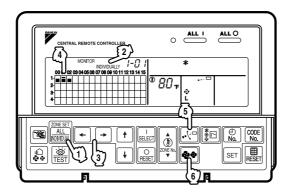
If the system is operated on the Zone screen, the same setting is reflected for all indoor units registered with that zone.

On the Zone screen, ventilation mode can be only monitored, not changed. In order to change to ventilation mode, be sure to use the Individual screen.

On the Batch screen, operating and monitoring is enabled to allow monitoring an indoor unit with a lower address within the scope of control.

Changing the Fan Direction and Fan Strength

Changing the fan direction and strength is accessed from the following screen: .



Registration

1. ${\mathfrak P}$ Press the ALL/INDIVIDUAL button to enter the ${\mathfrak P}$ individual screen.

The unit opens the individual screen automatically if nothing is done for one minute.

Keeping the button pressed down advances options rapidly.

3. Fress the FAN DIRECTION ADJUSTMENT button.

This sets FIXED or SWING fan direction.

Fress the FAN STRENGTH ADJUSTMENT button.

Pressing this button scrolls through $\begin{smallmatrix} 2 \\ L \end{smallmatrix}, \begin{smallmatrix} 4 \\ H \end{smallmatrix}$ and $\begin{smallmatrix} 4 \\ H \end{smallmatrix}$.

Depending on the indoor unit, only L and H may be available.

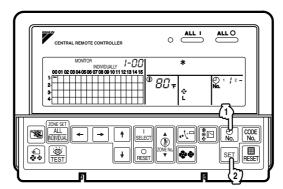
The functions included in the indoor units may vary. Pressing a button for an unavailable function prompts **NOT AVAILABLE** to display.

Timer Number Setting

Only when used with the schedule timer

Using this together with the schedule timer makes it possible to set on/off function four times a day.

Two settings of ON/OFF are possible to one Schedule Timer and two Schedule Timers can be registered into a Central Remote Controller.



Registration

1. Pressing the TIMER No. button causes the number set for timer number 1 to blink.

If no timer setting has been made a dash [-] is displayed. Select the desired timer number by pressing the TIMER No." button.



2. ② Once the desired timer number is displayed, press the SET button.

Press the **SET** button within 10 seconds after the timer number is displayed.

The display will return to how it was after 10 seconds.

The display for timer number 1 will stop blinking and then timer number 2 will start blinking.



Once the desired timer number is displayed, @press the **SET** button.

The display for timer number 2 will stop blinking.

The $\bigcap_{No.}$ display disappears after 3 seconds.

Select [-] instead of a timer number when you do not wish to set a timer number.

It is possible to set only one timer number.

The times for turning the unit(s) on and off twice a day can be set with a single timer number, as shown in the following figure:



■ Timer Number Setting

Group control: select the unit in the individual screen and set the timer number.

Batch control: set the timer numbers for all connected units.

Zone control: set the timer numbers for all zone-registered units.

Call up the zones which you wish to set in the zone screen and set the timer numbers.

Since the most recent timer number set takes priority, the last screen setting applies to the connected units.

Example 1:

Setting timer number 1 for unit 1-00 to [1] and timer number 2 to [2] in the individual screen and subsequently setting timer number 1 to "3" and timer number 2 to [4] in the batch screen defaults all timer numbers for all units to the batch setting, so that timer number 1 for unit 1-00 becomes [3] and timer number 2 becomes [4].

Example 2:

To prevent leaving units on, timer number 1 is set to [5] in the batch screen.

Setting timer number 1 in zone number 1 to [-] in the zone screen after that will change the timer number for zone number 1, so the setting to prevent leaving the units on will be lost for zone number 1 only.

If a timer number is set incorrectly, re-enter the correct setting in the desired screen.

■ When the timer number on time and off time are set to the same time:

When the on time and off time are set to the same time for the same timer number, operation does not change. When the on time and off time are set to the same time for different timer numbers, the off time is given priority. When setting the timer operation, make sure the scheduled times do not overlap.

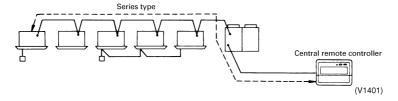
2.4.5 Wiring Instructions

Wiring instructions

For control wiring of DIII-NET, you can select from the following 3 types of wiring methods:

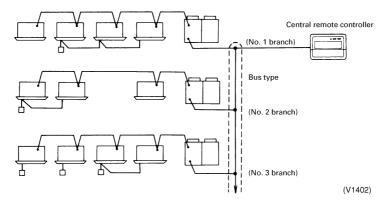
1. Series method:

Wiring is connected by a single line from the central controller.



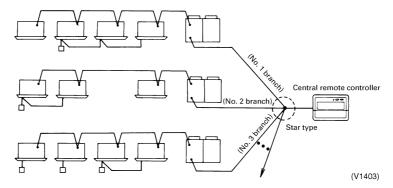
2. Bus method:

Up to 16 branches are possible. Never diverge the sub-branches from the branch line.



3. Star method:

Up to 16 branches are possible. Never diverge the sub-branches from the branch line.



Specifications of transmission wiring:

Be sure to use 2-conductor, 18 AWG, stranded, non-shielded, copper cable / PVC or vinyl jacket.

Length of control wiring:

Between central remote controller and air-conditioner

Maximum extension : 3280 ft, Total length : 6560 ft *

* When you have branches, the total length is for all branches combined.

2.4.6 Instructions for Initial Setting

Group No. Setting for Central Control Equipment

Group No. should be set for each group by the remote controller for indoor unit when you operate the system with central remote controller and unified ON/OFF controller. For the same control group, set only one of the units.

■ Remote controller for indoor unit

 Turn ON the power of the indoor unit and central remote controller. No settings can be made without the power ON.

(

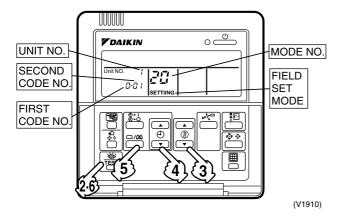
Check that the installation and electrical wiring are correct before turning the power supply ON.

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 [88].

2. While in the normal mode, hold down the sutton for a minimum of 4 seconds.

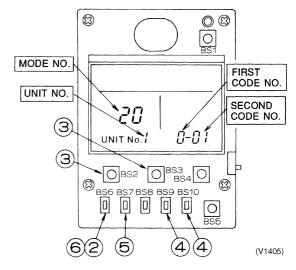
The remote controller will enter the FIELD SET MODE.

- 3. Select the MODE No. [00] with the 🐧 button.
- 4. Use the button to select the group No. for each group. (Group numbers increase in the order of 1-00, 1-01, ... 1-15, 2-00, ... 4-15.)
- 5. Press \supseteq to set the selected group No.
- 6. Press to return to the NORMAL MODE.



Simplified remote controller

- Group No. setting by simplified remote controller.
- 1. Remove the cover of remote controller.
- 2. While in normal mode, press the [BS6] BUTTON (field set) to enter the FIELD SET MODE.
- Select the mode No. [00] with [BS2] BUTTON (temperature setting ▲) and [BS3] BUTTON (temperature setting ▼).
- Select the group No. with [BS9] BUTTON (set A) and [BS10] BUTTON (set B). (Group Numbers increase in the order of 1-00, 1-01......1-15, 2-00,.....4-15. However, the unified ON/OFF controller displays only group No. set within the range of control.)
- 5. Press [BS7] BUTTON (set/cancel) to set group No.
- Press [BS6] BUTTON (field set) to return to the NORMAL MODE.

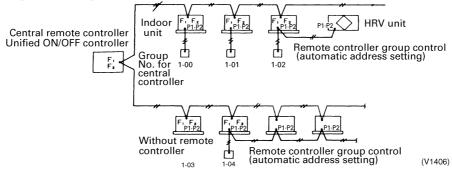


Cautions

■ Even in the systems without remote control, connect the remote controller once to set the Group Number for addressing the central control equipment and after it is set, remove the remote controller.

When you set the group No., be sure to supply power to the central remote controller, the unified ON/OFF controller, and the indoor unit.

Example of group setting



Cautions

When the power is supplied, all the displays appear at once on the remote controller and then the display changes to [88] for about one minute during which time the remote controller does not function. This is not a malfunction of the remote controller.

Control Mode Setting(Field Setting)

The control mode defines the function of local remote controllers to handle various types of control and applications. Functions can be defined by conditions and combinations of local remote control operations such as ON/OFF, etc. See table on following page.

Operation can always be conducted from the central remote controller except when connected to the central monitoring panel.

Description of Control Mode

The following 5 operation control modes and 20 temperature/operation combination modes are set with the remote controller and are displayed by the control mode 0 through 19.

Remote Control Rejection

Choose when you want to turn on/off using only the central remote controller as on/off cannot be conducted by remote controller.)

Remote controller Off Only Accepted

Choose when you want to turn on only by the central remote controller, and turn off only by local remote controller.

Central Priority

Choose when you want to turn on only by the central remote controller and, during the set time, turn on/off freely by local remote controller.

Individual Priority (Last Command Priority)

Choose when you want to turn on/off by both central remote controller and local remote controller.

Remote Controller Permission Timer

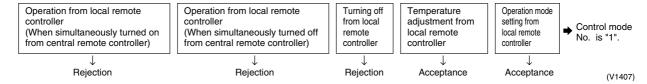
Choose when you want to turn on/off by local remote controller during set time, but you do not want to start operation from the central remote controller at the programmed time of system start.

Note:

The control mode consists of numbers 0 through 19, but only 0 through 9 are usually set.

2.4.7 Selection of Control Mode No.

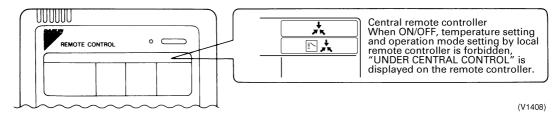
Select whether to accept or reject operations by local remote controller such as Turning on/off, temperature adjustment and operation mode setting respectively, and decide the control mode No. shown in the right side of the following table: **Example:**



	Operation from remote controller					
Control mode	С				Control	
	Simultaneous operation, Individual operation and Timer operation is turned ON by central controllers	Simultaneous operation and timer operation is turned OFF by central controllers	OFF	Temperature adjustment	Operation mode setting	mode No.
		Rejection (example)	Rejection (example)	Rejection	Acceptance	0
Remote controller rejection					Rejection	10
				Acceptance (Example)	Acceptance (example)	1(example)
	Rejection (example)				Rejection	11
Remote controller off only accepted	, , , ,		Acceptance -	Rejection	Acceptance	2
					Rejection	12
				Acceptance	Acceptance	3
					Rejection	13
Central priority	A			Rejection	Acceptance	4
					Rejection	14
				Acceptance	Acceptance	5
					Rejection	15
Individual priority (Last command priority)	Acceptance	Acceptones		Rejection	Acceptance	6
					Rejection	16
		Acceptance		Acceptance	Acceptance	7
					Rejection	17
	Acceptance (only when timer is ON.)	Rejection		Rejection	Acceptance	8
					Rejection	18
		(only when timer is OFF.)		Acceptance	Acceptance	9
					Rejection	19

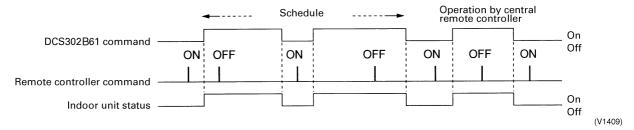
Notes:

- : Settings when shipped from factory.
- If not using remote controller, do not select the remote controller permission timer is not operable and should not be set.

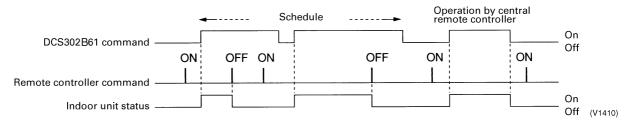


■ Timing Chart for Scheduled Operation and each Control Mode No. (VRV system) are as follows:

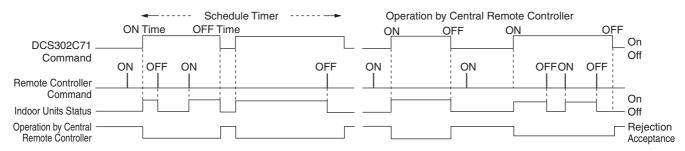
1. Remote controller rejection: Code No. 0, 1, 10, 11



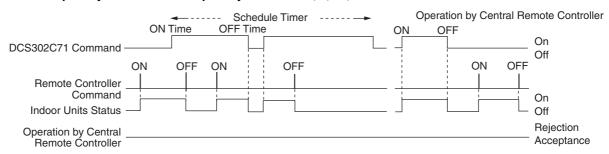
2. Remote controller off only accepted: Code No. 2, 3, 12, 13



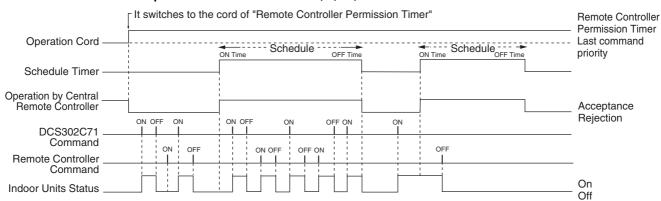
3. Central priority: Code No. 4, 5, 14, 15



4. Individual priority - Last command priority: Code No. 6, 7, 16, 17



5. Remote controller permission timer: Code No. 8, 9, 18, 19



Note: Operation by remote controller is the same as central priority.

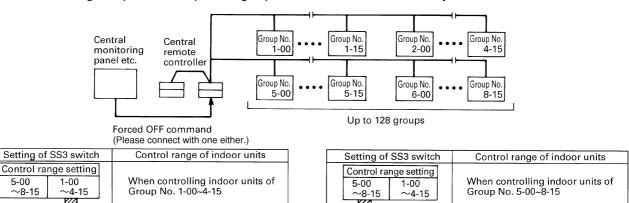
2.4.8 Setting of Central Remote Controller: Be sure to set 1 ~ 3 before electrical power is supplied.

- 1. Connector for setting MAIN for control is provided when shipped from factory
- When only one central remote controller is used, never remove the connector for setting MAIN for control.
- When plural central remote controllers are used or a central remote controller is used with other central controllers, the setting should be made according to the following table:

Pattern of central control equipment connection.			Connector for setting Main for control			
Central remote controller	Unified ON/OFF controller	Schedule timer	Central remote controller	Unified ON/OFF controller	Schedule timer	
1~4 units	_	_		_	_	
	1~16 units	_	Use for 1 unit only. Not use for other	Not used for all units	_	
		1 unit	units.		Not used.	
	_	1 unit		_	Not used.	

Note: Be sure to remove the connector when the Parallel interface or Data station is used.

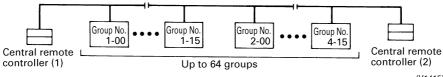
- 2. Control range setting switch (SS3)
- This setting is required when up to 128 groups of indoor units are controlled by two central remote controllers.



(V1414)

3. Main/Sub changeover switch: Setting is required for central control from 2 locations

■ This is required when you have central control of the same indoor unit(s) from different places by using 2~4 central remote controllers.



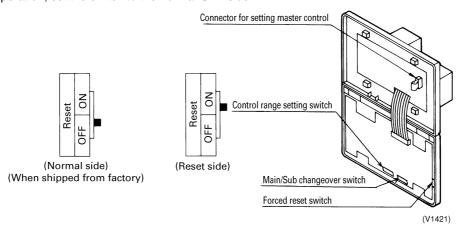
(V1415)

Either Group 1 or 2 of the central control equipment should be set for Main, and the other one for Sub.

4. Forced reset switch

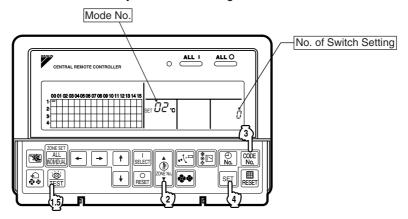
When changing the setting of the connector for the main controller, you can reset simply by setting it to the reset side once and returning to the normal side, without turning the power OFF.

For normal operation, set the switch to the normal OFF side.



5. Special Function Settings

Special functions on the central control system can be changed while in FIELD SETTING mode.



Setting Procedure

- 1. Press and hold the TEST button for four seconds or more to set the system to FIELD SETTING mode.
- 2. Use the **ZONE No.** button to select a desired temperature.

Press ▲ to increase the Mode No. Press ▼ to decrease the Mode No.

- 3. Press the CODE No. button for control mode to select a Switch Setting No.
- 4. Press the **SET** button to determine the content of the changed setting. The blinking display then reads **Switch Setting No**.
- 5. Press the **TEST** button to return the system to NORMAL mode. In this case, you do not need to turn cycle the power again.

Example: If no restricted items from the sub-central remote controller while in double-central control, set Mode No. to [02] and the Switch Setting No. to [0].

6. Refreshed operation

Refreshed operation is the default setting from the factory and enables setting of TEMPERATURE CONTROL and TEMPERATURE SETTING automatically when turning on the unit from DCS302C71.

7. Factory default setting

OUTDOOR SYSTEMS	INDOOR UNITS
Cooling Mode	Cooling 82°F

Heating Mode	Heating 72°F
Fan Mode	Fan Operation

Examples of functionality with Refreshed Operation:

If the setting is changed by DCS302C71, the unit operates by this setting from the next operation.

if originally set to 79°F cooling by DCS302C71, the next operation also operates at 79°F for cooling mode. Even if it has changed into heating operation, or fan-only operation with wired or wireless remote control, it operates at 79°F in cooling mode.

When zone registration is entered into the Central Remote Controller, the next operation uses the value originally set up in the zone.

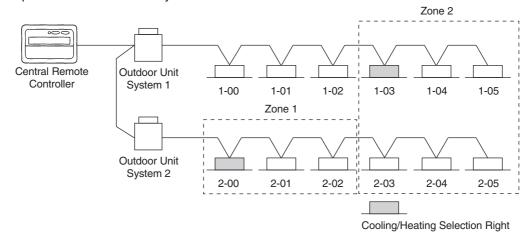
If Zone 1 is set to 68°F of heating (see following figure)

and controlled by Central Remote Controller, 3 indoor units registered into Zone 1 are operated by 68°F for heating. Because priority is given to zone setting, even if an individual mode for unit 2-02 from the Central Remote Controller is set to 77°F, 2-02 is operated at 68°F zone setting.

If there are two or more indoor units in a zone, the operating mode depends on the outdoor unit, and the operating mode of each indoor unit does not become the same setting.

When the outdoor unit system 1 is cooling, outdoor unit system 2 is heating, as shown in the following figure. Setting of a zone 2 is operated in heating mode, because 2-03, 2-04, and 2-05 do not have a cooling/heating selection, and temperature reaches 79°F.

When you unify the operating mode of an indoor unit in the same zone, you must set up a zone in the indoor unit to correspond with its outdoor unit system.



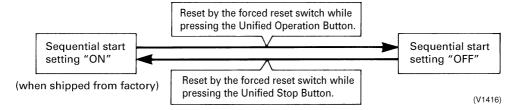
Mode No.	Catting contents	No. of setting switch			
Mode No. Setting contents		0	1	2	
00	Setting of sequential operation function	NO	YES	_	
01	Setting of refresh function	NO	YES	_	
02	Setting of restriction items from sub-central remote controller while in double central control function	Disabled	Enabled	-	
03	Setting of area designation for forced OFF (Operation with T1 and T2 entered)	Forced OFF all within the scope of control	Forced OFF only within the scope of control	Forced thermostat OFF with the scope of control	

Items in bold represent the factory set for the No. of Switch Setting.

Do not make setting of any items not listed in the table above.

Setting for Sequential start function

The central remote controller is equipped with the sequential start function, which starts the indoor units in about 2~3 seconds interval during the unified operation. (The switch is set to **ON** when shipped from factory.) You can change the sequential start setting from **ON** to **OFF** as follows.



Note:

The sequential start function is for reducing the load of the electrical facility, but not for reducing the load of the large rush current when the compressors are started at the same time. This is also the same for Unified ON/OFF controller and Schedule timer.

■ Refresh function

This function is used to automatically send OPERATION MODE and TEMPERATURE SETTING from the central control system while in operation. In order to disable the refresh function, set the **No. of Switch Setting** to [0].

Restriction items from sub central remote controller while in double central control function

While in double central control function, no settings of zone interlock and operation code can be made from the sub central remote controller. In order to disable the refresh function from the sub central remote controller, set the **No. of Switch Setting** to [0].

Setting of area designation for forced OFF

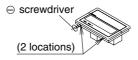
•In order to stop all indoor units within the scope of control as a single unit using the entry of T1 and T2, set the **No. of Switch Setting** to [1].

•In order to stop all indoor units within the scope of control with forced thermostat OFF using the entry of T1 and T2, set the *No. of Switch Setting* to [2]. With this parameter set to [2], no forced stop can be made on any indoor unit.

Installation

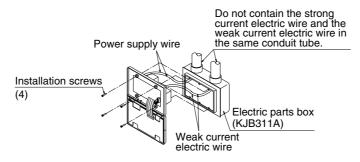
(1) Open the upper part of remote controller.

Insert a \ominus screwdriver (2 locations) into the recess between the upper part and the lower part of remote controller and twist the screwdriver lightly.

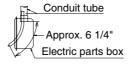


PC board is attached with both the upper and lower part of remote controller. Do not damage the board with the screwdriver.

(2) Open the upper part of remote controller and install the Electric parts box with the attached installation screws $(M4 \times 16)$.



NOTE) Suitable length of the electric wire is about 6 1/4" from electric parts box. If it is difficult to contain a long wiring, strip the jacketed part of the wiring.



2.5 DCS301C71 Unified ON/OFF Controller

Turns up to 16 groups of indoor units (max. 128 units) on/off (operation/stop) by individual group or simultaneously and enables view of operation/malfunction at the same time.



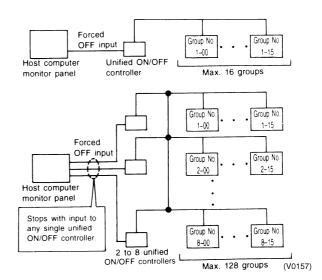
- For a maximum of 16 groups of indoor units (max. 128 units), unified operation/stop or individual operation/stop can be performed with this optional accessory. Also allows you check operation/error display at a glance.
- By combining with a central remote controller and schedule timer, you can construct a system that matches the size and use of the building.
- Up to 8 units connectable within 1 system.
 Up to 16 units in the double central control mode.
- Applicable wiring methods include bus and star in addition to crossover type.
- Can be used in combination with other D-BACS equipment.

2.5.1 System Configuration

This unified ON/OFF controller enables individual and unified operation/stop for a maximum of 16 groups of indoor units. With 2 to 8 unified ON/OFF controllers, individual and unified control is possible with up to a maximum 128 groups of indoor units.

When using 1 unified ON/OFF controller

When using 2 to 8 unified ON/OFF controllers



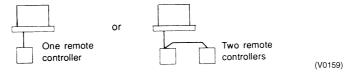
This optional accessory can not be used in conjunction with wiring adaptor, which is also an optional accessory, for electrical appendices.

The groups of indoor units are as follows:

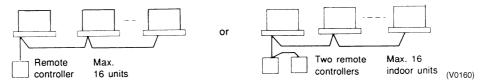
1. One indoor unit without remote controller



2. One indoor unit controlled by one or two remote controllers



3. A maximum of 16 indoor units controlled in groups by one or two remote controllers

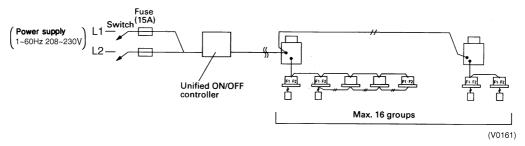


2.5.2 Electric Wiring

General Instructions

- All wiring, components, and materials procured on the site must comply with the applicable local and national codes.
- Use copper conductors only.
- All field wiring and components must be provided by a licensed electrician.
- Unit shall be grounded in compliance with the applicable local and national codes.
- Fit the power supply wiring with a fuse and a switch.
- After wiring work, check power to ensure that the equipment shuts OFF when the switch is turned OFF.

Wiring Outline



Wiring Specification

	Type	Size
Power Supply Wiring	H05VV-U3G	(Note 1)
Transmission Wiring	2-conductor, stranded, non- shielded copper cable / PVC or vinyl jacket	18-AWG

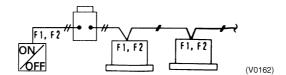
Notes:

- 1. The size of power supply wiring must comply with the applicable national and local codes.
- Allowable length of transmission wiring is as follows.
 Max. 3280 ft; Total wiring length for all groups combined: 6560 ft

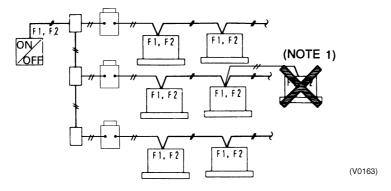
Connect the wiring between indoor and outdoor units, indoor/outdoor units and power supply, and indoor units and remote controllers. For details, refer to the installation manuals of indoor and outdoor units.

Examples of Wiring for Transmission

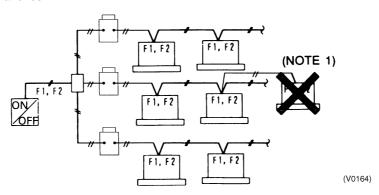
1. Series Wiring

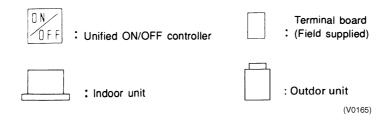


2. Bus Type Wiring: Can be branched up to 16 branches Example of 3 branches



3. Star Type Wiring: Can be branched up to 16 branches Example of 3 branches

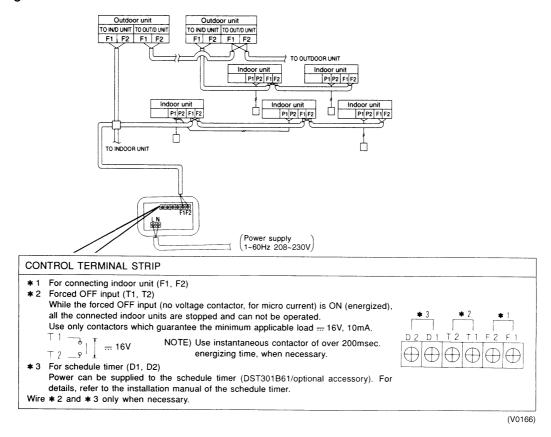




Note:

- 1. No branching is permitted from the daisy chain.
- 2. Use a relay terminal board (field supplied) to branch more than 3 control wires from the same terminal board.

Wiring to the Indoor Unit and Outdoor Unit



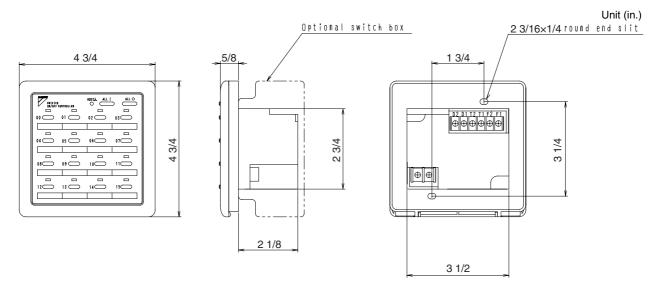


WARNING:

Do not connect the power supply wiring to the control terminal strip. If connected by mistake, it may damage or burn electrical parts of optional controllers for centralized control and indoor unit and can be dangerous. Be sure to check wirings before turning the power ON.

2.5.3 Dimensions

Unified ON/OFF Controller DCS301C71

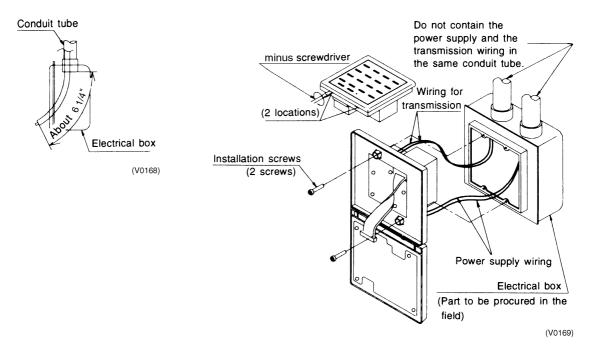


2.5.4 Installation

Open the upper part of remote controller.
 Insert a minus screwdriver (2 locations) into the recess between the upper part and the lower part of remote controller and twist the screwdriver lightly.

PC board is attached with both the upper and lower part of remote controller. Do not damage the board with the screwdriver.

2. Open the upper part of remote controller and install the electrical box, procured in the field, with the attached installation screws (M4×16).



Note: Suitable length of the electric wire is about 6-1/4" (160 mm) from the inlet of the electrical box. If it is difficult to contain a long wiring, strip the jacketed part of the wiring.

2.5.5 Initial Setting

- 1. Connector for setting master controller (X1A) is Pprovided with connector at factory set.
- When using 1 unified ON/OFF controller, do not disconnect the connector for setting master controller. Use the unit with the connector in the state in which it was delivered.
- When using multiple unified ON/OFF controllers, or using the unified ON/OFF controller in conjunction with other optional controllers for centralized control, makes settings as indicated in the right table.

Pattern of connection of optional controllers for centralized control		Connector for setting master controller (X1A) Settings			
Unified ON/OFF Controller	Central Remote Controller	Schedule Timer	Unified ON/OFF Controller	Central Remote Controller	Schedule Timer
	_	_	Set one to USED and all the rest to NOT USED .	_	
1 to 16	1 to 4	_	Set all to NOT USED .	(Note)	
1 10 16	_	1	Set one to USED and all the rest to NOT USED.	_	NOT USED.
	1 to 4	1	Set all to NOT USED .	(Note)	NOT USED.

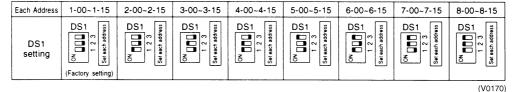
Note:

For instructions on how to set the master controller on the central remote controller, see the installation manual provided with the central remote controller.

2. Switch for Setting Each Address (DS1)

The following switches are used to set group control address:

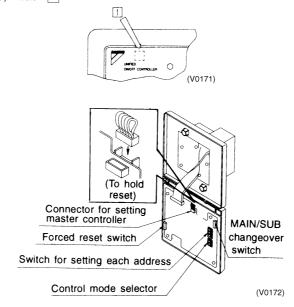
Group Numbers 1-00 through 1-15 are in the same control group when the unit is shipped from the factory.



After setting, attach the number seal applicable to respective control range of the attached switch display sticker, as shown in the diagram below.

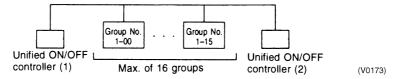
Example:

In The Case of 1-00 to 1-15, Attach 1.



3. MAIN/SUB Changeover Switch Setting

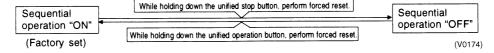
With two unified ON/OFF controllers, centralized control for indoor units is possible from different locations. In this kind of setup, it is necessary to set the MAIN/SUB changeover switch.



One of the two unified ON/OFF controllers (1) is set to MAIN while the other (2) is set to SUB.

4. Setting of the Sequential Operation Function

The unified ON/OFF controller is equipped with a sequential operation function that sequentially turns indoor units on in 2-second intervals during unified operation. Sequential operation is factory set to **ON**. To switch sequential operation **ON** or **OFF**, set as shown in the following diagram:



Note:

The sequential operation function is designed to reduce the load on the power supply equipment, but does not guarantee that compressors will not be started simultaneously. You cannot count on a capacity reduction when selecting equipment breakers.

5. Control Mode Selector (DS2)

The following four patterns of control mode can be set:

Control Mode	Individual	Centralized	Timer Operation Possible by Remote Controller	ON/OFF Control Impossible by Remote Controller
Content	Operation/stop is controlled by both unified ON/OFF controller and remote controller.	After operation by unified ON/OFF controller, operation/stop is freely controlled by remote controller until stopped by unified ON/OFF controller.	When used in conjunction with the schedule timer, operation/stop is controlled freely by remote controller during the set time but operation is not available when the schedule timer is ON.	Operation/stop is controlled by unified ON/OFF controller only. This unit can not be operated/stopped by remote controller.
DS2 Setting				
	ON 1 SSG CONTROL MODE	ON SS SS CONTROL MODE	ON SSG CONTROL MODE	ON 1 2 CONTROL MODE
	(V0175) (Factory set)	(V0176)	(V0177)	(V0178)

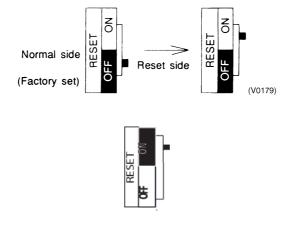
Note:

- Indicates the position of switches.
- Set control mode before turning power supply ON.
- When used in conjunction with central remote controller, the control modes of the central remote controller takes priority.

6. Forced Reset Switch (SS1)

When changing the setting of the connectorwhen setting the master controller, you can reset simply by switching it to the reset side and back again without turning the power OFF.

For normal operation, set the switch to the normal, or off position, side.

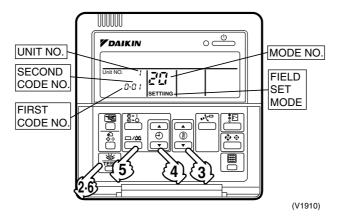


2.5.6 Setting Group No. for Centralized Control

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

- 1. Turn ON the power of the indoor unit and unified ON/OFF controller. The power must be ON to apply settings. 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 HOST I flashing in an interval of ON-ON-OFF.
- 2. While in the normal mode, hold down the button for a minimum of 4 seconds. The remote controller will enter the FIELD SET MODE.
- 3. Select the MODE No. [00] with the 🐧 button.
- 4. Use the 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 $\stackrel{\square}{=}$ to set the selected group No.
- 6. Press to return to the NORMAL MODE.



Note:

- For simplified remote controller, see the installation table.
- For setting group numbers for wiring adaptors on other air conditioners, refer to its accompanying instruction manual

NOTICE

Enter the group number and installation location of the indoor unit into the attached installation table. Be sure to keep the installation table with the operation manual to enable proper maintenance.

2.5.7 Confirming Operation

Before starting test operation, supply power to the indoor units, outdoor units, and unified ON/OFF controller, and press the ON/OFF BUTTON.

If the operation lamo flashes, it indicates a malfunction in the indoor unit of the applicable group.

If the display of HOST! flashes, it indicates a malfunction in the optional centralized controllers and should be checked.

Note:

- For test operation of indoor and outdoor units, refer to the outdoor unit's accompanying installation manual.
- After turning the power supply ON, if the unit does not accept operation for two minutes or more with the display of flashing, check the following points:
 - Check that the connector is set correctly for setting master controller.
 - Check that the group number for centralized control has been set.

2.6 DST301BA61 Schedule Timer

Enables you to connect and control weekly schedules for up to 128 indoor units.

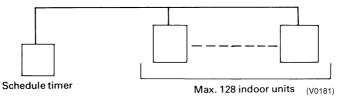


- Simultaneous control of up to 128 indoor units is managed by a week schedule.
- The start and stop time for twice a day can be set for the week in increments of 1 minute.
- By combining with a central remote controller and schedule timer, you can construct a system that matches the size and use of the building.
- If used together with a central remote controller, you can set up to 8 schedule patterns that can be distributed among zones using the central remote controller.
- Is equipped with a compensation function for power failure up to 48 hours.
- Features thin design of a mere 5/8" in thickness using JIS recessed box for 2.
- Applicable wiring methods include bus and star in addition to crossover type.
- Can be used in combination with other D-BACS equipment.

2.6.1 System Configuration and Electric Wiring

With a schedule timer, you can set on/off time twice a day in time increments of 1 week for up to 128 indoor units.

■ System Configuration

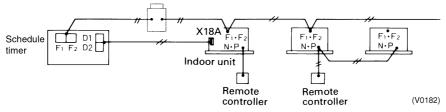


If using the schedule timer alone, you don't have to set the centralized control group number.

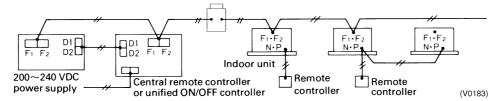
■ Transmission Wiring

Indoor Unit Wiring:

- 1. If using the schedule timer alone:
- For the schedule timer's power supply, connect the schedule timer (D1, D2) with the connector (X18A) on the indoor unit PC board by crimped style terminal with the attached electrical wire.



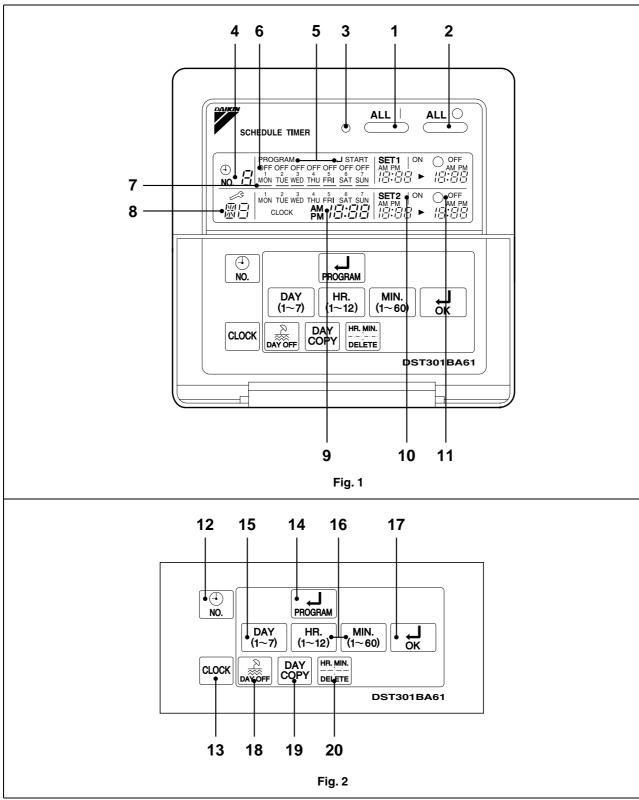
2. If using in combination with other optional controllers for centralized control:



Transmission wiring for control: AWG 18 , 2-conductor, stranded, non-shielded copper cable / PVC or vinyl jacket, Max. 3280 ft (Total Max. 6560 ft)

Transmission Wiring Connection Example:1 series wiring, 2 bus wiring, and 3 star wiring are the same style as the central remote controller.

2.6.2 Names and Functions DST301BA61



3P124623-5C

	UNIFIED OPERATION BUTTON ALL
1	Press to perform the unified operation regardless of the programmed time.
	UNIFIED STOP BUTTON ALL O
2	Press to perform the unified stop regardless of the programmed time.
	OPERATION LAMP (RED)
3	The light turns on during the operation of the indoor unit.
	DISPLAY ® & TIME No.
4	Displays the time number only when used in conjunction with the central remote controller.
5	DISPLAY PROGRAM → START.(PROGRAMMING START)
	The light turns on when the timer is programmed.
	DISPLAY OFF For HOLIDAY SETTING
6	Lights above the day of the week set as holiday. The operation controlled by timer is not available on that day.
_	DISPLAY [—] (SETTING OF DAYS OF A WEEK)
7	Flashes below the day of the week programmed.
	DISPLAY 👸 (MALFUNCTION CODE)
8	Displays the contents of malfunction during the stop due to malfunction.
	DISPLAY who the with 1 the saft safe (PRESENT TIME)
9	Displays the present day of the week and time.
10	DISPLAY MEN PROGRAMMED TIME OF SYSTEM START
	Displays the time programmed to start.
11	DISPLAY PROGRAMMED TIME OF SYSTEM OFF
	Displays the time programmed to stop.
12	TIME NO. BUTTON NO.
	Press to select time schedules.
13	CLOCK ADJUSTING BUTTON CLOCK
	Press this button to set the present time.
	PROGRAMMING START BUTTON PROGRAM
14	Press to set or check the programmed time. Press it again after you are through with the program.

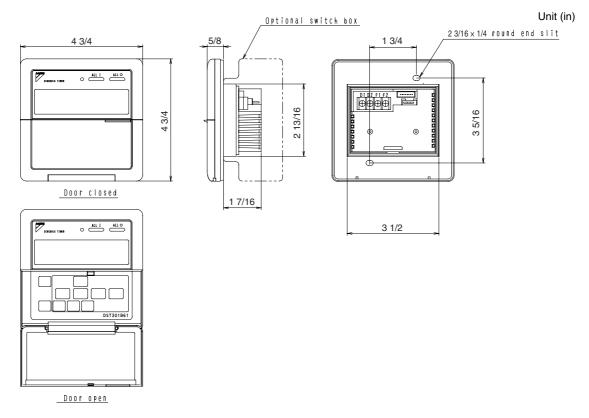
15	BUTTON FOR SELECTING DAYS OF A WEEK
	Press to select the day of the week.
	HOUR/MINUTE BUTTON HR. (1~12) MIN. (1~60)
16	Press to adjust the present time and the programmed time.
	TIMER ON BUTTON 🚜
17	Press to set the present time and the programmed time.
40	HOLIDAY SETTING BUTTON
18	Press to set holidays.
19	BUTTON FOR COPYING PROGRAM OF PREVIOUS DAY DAY DAY
	Use this button to set the No. of programmed time same as that of the previous day.
	PROGRAM CANCELING BUTTON HR.MIN
20	Use this button to set the programmed time to cancel. The display shows $[;]$
Note	e:

Please note that all displays are simultaneously shown in the figure to illustrate available options.

2.6.3 Dimension

Schedule Timer

■ DST301BA61



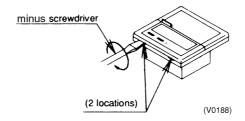
C:3D049544

2.6.4 Installation and Initial Setting

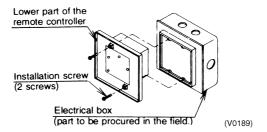
1. Remove the upper part of the remote controller.

■ Insert a minus screwdriver (2 locations) into the recess between the upper part and the lower part of the remote controller and turn the screwdriver lightly.

The PC board is attached with the upper part of the remote controller. Do not damage electric parts with a screwdriver or other tools.



Attach the lower part to the electrical box (part to be procured in the field) with the provided installation screws. Select a flat face as an installation place. Do not tighten the installation screws excessively or it might damage the lower part of the remote controller.



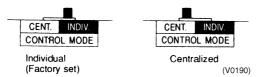
For electrical box, use part number KJB211A (optional accessory).

2. Initial Setting

- 1. Setting connector for individual use (X1A): Factory set: OFF -- Set for individual use only
 - For individual use of schedule timer
 Insert the connector attached with the body case on the PC board.
 - For combined use with other optional controllers for centralized control Do not change the factory setting.

2. Control mode selector (SS2): Set for individual use only

By changing the switch, setting mode of individual and centralized operation is available.



Note:

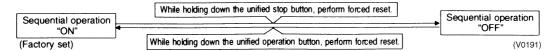
When used with other optional controllers, control mode of central remote controller and the unified ON/OFF controller take priority.

3. Setting of the sequential operation function

The schedule timer is equipped with a sequential operation function that sequentially turns indoor units on in 2-second intervals during unified operation.

Sequential operation is factory set to ON.

To switch sequential operation ON or OFF, set as follows.

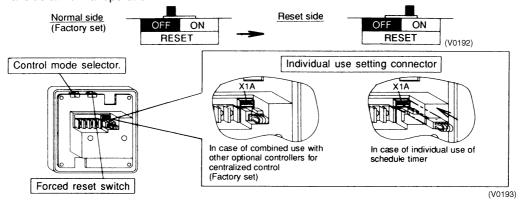


Note:

The sequential operation function is designed to reduce the load on the power supply equipment, but does not guarantee that compressors will not start simultaneously. You cannot count on a capacity reduction effect by power supply equipment breaker selection.

4. Forced Reset Switch (SS1)

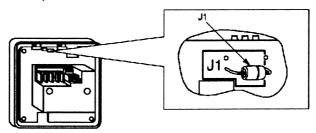
When changing the setting of the connector for individual use, the switch can be reset simply by setting it to the reset side once and returning to the normal side. This procedure enables to reset without turning off the power. Set the normal side at normal operation.



5. Setting for special function

When you want to have programmed operation for some functions of indoor units by using only the schedule timer, cut off J1 and supply the power again.

You can have a programmed operation of the indoor units. Set the address for central control by local remote controller.



3. Transmission Wiring

- In case of individual use of schedule timer, take the following action:
- Connect terminals of the schedule timer (F1, F2) with terminals of the indoor unit (F1, F2). Connect terminals of the schedule timer (D1, D2) and the connector on the indoor unit PC board, using the attached electric wire and crimp style terminals. Prevent the connection part of crimp style terminal from hanging outside the electric parts box. In case of combined use with other optional controllers for centralized control, take the following action:

Connect terminals of the schedule timer (F1, F2, D1, D2) and the terminals of the central remote controller or unified ON/OFF controller.

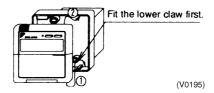
Wiring Specifications

	F1, F2	D1, D2
Wiring	2-conductor, stranded, non-shielded copper cable / PVC or vinyl jacket	2-conductor, stranded, non-shielded copper cable / PVC or vinyl jacket
Gauge	AWG18	AWG18
Length	Max. 3280 ft. (1000 m)	Max. 492 ft. (150 m)

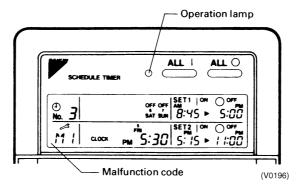
NOTES:

- 1. Electrical box and transmission wiring are not attached.
- 2. Do not touch the PC board with your hand.
- 3. Keep transmission wiring at least 2 inches away from power supply wiring to prevent malfunctions.

4. Install the Upper Part of the Remote Controller as before.



2.6.5 Error Diagnosing Function



This schedule timer is provided with the malfunction-diagnosing function. The malfunction code flashes if there are any communication malfunctions between the optional controllers for centralized control. In addition, the operation lamp also flashes if there are any malfunctions with the indoor unit. Check the display and contact your DAIKIN dealer to report the trouble area indicated.

Operation Lamp	Malfunction Code	Malfunction
Turn Off	M1	Failure of PC board of schedule timer
Turn On or Off	M8	Malfunction of transmission between each optional controller
Turn On or Off	MA	Improper combination of optional controllers
Turn On or Off	MC	Address failure of schedule timer
Flash	UE	Malfunction of transmission between indoor unit and optional controllers
Flash	_	Malfunction in indoor unit: Refer to the malfunction codes of the indoor remote controller, and read the accompanying CAUTION FOR SERVICING manual.

2.7 BRC1D71 7-Day Programmable Controller

New, advanced functions are as follows:



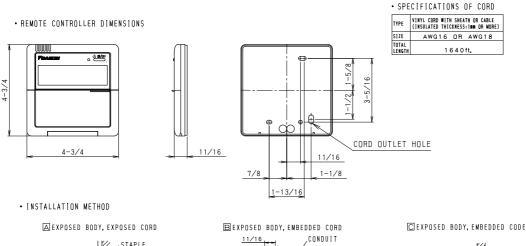
- Includes ventilation mode and airflow rate switching, the main functions of HRV series.
- 24-hour clock function with 1-hour backup for power failures.
- Programming function for each day of week.
- Scheduling for start/stop and temperature limits with 5 settings/ day
- Programming can be enabled or disabled.
- Copy function for programmed schedules.

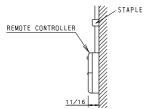
2.7.1 Dimension

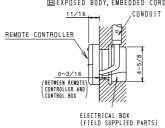
■ BRC1D71

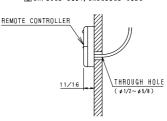
Unit (in.)

NOTE)1. REMOTE CONTROLLER CORD AND STAPLE ARE NOT ATTACHED. THEY ARE FIELD SUPPLIED PARTS.









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2.7.2 Features and Functions

The BRC1D71 is a state-of-the-art remote controller that offers full control.

1 BASIC REMOTE CONTROLLER FUNCTIONS

ON/OFF

Operation mode change-over Temperature adjustment Air volume adjustment Air flow direction adjustment

2 **CLOCK FUNCTIONS**

24 hours real time clock Day of the week indicator

3 **SCHEDULE TIMER FUNCTIONS**

Maximum of 5 actions can be programmed for each day of the week
Schedule timer can be enabled/disabled at any time
Linked to a set temperature or a LIMIT operation or an OFF operation
The most recent command overrules previous command until next scheduled command

4 **LIMIT OPERATION**

Limit Operation provides thermostat control within the range of the set minimum and maximum temperature. The minimum temperature setting will trigger heating, the maximum temperature setting will trigger cooling.

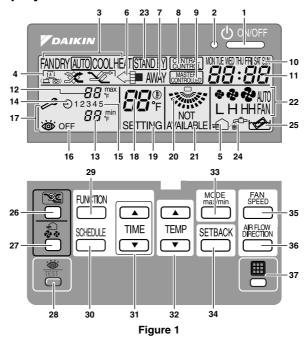
5 **AWAY**

The *Away* function prevents the room temperature from dropping or rising when the occupants are out for a longer period. If the room temperature drops below 50°F, heating is started automatically. As soon as 59°F is reached, the controller returns to its original status. If the room temperature rises above 85°F, cooling is started automatically. As soon as 74°F is reached the controller returns to its original status.

6 BUTTON PERMISSION LEVEL

Three hierarchical permission levels can be set to limit user action.

2.7.3 Functon Labels Displayed



2.7.4 Name and Function of Switches and Icons (Refer to figure 1)

ON/OFF BUTTON ON/OFF

Press the ON/OFF button to start or stop the system.

OPERATION LAMP ()

Lights during operation or blinks if a malfunction occurs.

OPERATION MODE ICON FANDRY (AUTO) COOLHEAT These icons indicate the current operation mode (FAN, DRY, AUTOMATIC, COOLING, HEATING).

VENTILATION MODE ICON



These icons indicate the current ventilation mode (HRV only) (AUTOMATIC, HEAT EXCHANGE, BYPASS).

5 VENTILATION ICON €

The ventilation icon appears when the ventilation is adjusted with the ventilation amount button (HRV only). Simultaneously, the ventilation amount is indicated by the fan speed icon (see 22).

AIR CLEANING ICON

Indicates that the air cleaning unit (option) is operational.

AWAY ICON AWAY

Status of the away function.

ON	AWAY is enabled
FLASHING	AWAY is active
OFF	AWAY is disabled

EXTERNAL CONTROL ICON CENTRAL CONTROL Indicates that another controller with higher priority is controlling or disabling your installation.

9 CHANGE-OVER UNDER CENTRALISED CONTROL ICON MASTER CONTROLLED

This icon indicates that the change-over of the installation is under centralised control assigned to another indoor unit or optional cool/heat selector connected to the outdoor unit (= master remote controller).

DAY OF THE WEEK INDICATOR MON TUE WED THU FRI SAT SUN

Displays the current week day (or the set day when reading or programming the schedule timer).

11 CLOCK DISPLAY 88:88

Indicates the current time (or the action time when reading or programming the schedule timer).

MAXIMUM SET TEMPERATURE 2 max

The maximum set temperature indicates the maximum set temperature when in limit operation.

MINIMUM SET TEMPERATURE 2 min

The minimum set temperature indicates the minimum set temperature when in limit operation.

SCHEDULE TIMER ICON ①

Indicates that the schedule timer is enabled.

15 ACTION ICONS 1 2 3 4 5

These icons indicate the actions for each day of the schedule timer.

OFF ICON OFF

Indicates that the OFF action is selected when programming the schedule timer.

INSPECTION REQUIRED / and 6

These icons indicate that inspection is required. Consult your installer.

SET TEMPERATURE DISPLAY 🖁 🖁 🔭

This indicates the current set temperature of the installation (not shown in LIMIT operation or in FAN or DRY mode).

SETTING SETTING

Not used, for service purposes only.

AIR FLOW DIRECTION ICON

Indicates the air flow direction (only for installations with motorised air flow flaps).

21 NOT AVAILABLE AVAILABLE AVAILABLE NOT AVAILABLE is displayed whenever a non-installed option is addressed or a function is not available.

FAN SPEED ICON CHANNEL HANNEN

Indicates the set fan speed.

DEFROST/HOTSTART MODE ICON STAND BY Indicates that the defrost/hotstart mode is active.

AIR FILTER CLEANING TIME ICON 🖆 Indicates the air filter must be cleaned. Refer to the manual of the indoor unit.

25 ELEMENT CLEANING TIME ICON | Indicates the element must be cleaned (HRV only).

VENTILATION MODE BUTTON



The ventilation mode button operates the HRV; refer to the HRV manual for more details.

VENTILATION AMOUNT BUTTON 🔩



Sets the ventilation amount; refer to the HRV manual for more details.

INSPECTION/TEST OPERATION BUTTON TEST Not used, for service purposes only.

PROGRAMMING BUTTON FUNCTION

This button is a multi-purpose button.

Depending on the previous manipulations of the user, the programming button can have various functions.

SCHEDULE TIMER BUTTON

Enables or disables the schedule timer.

TIME ADJUST BUTTON

Adjusts the clock or, when in programming mode, to adjust the programmed action time. Both buttons have an auto-repeat function.

TEMPERATURE ADJUST BUTTONS

Adjusts the current setpoint or, when in programming mode, to adjust the programmed setpoint temperature (step = 1°F). Both buttons are also used to adjust the day of the week.

- 33 OPERATION CHANGE/MIN-MAX BUTTON This button is a multi-purpose button. Depending on the previous manipulations of the user, it can have following functions:
- 1 select the operation mode of the installation (FAN, DRY, AUTOMATIC, COOLING, HEATING)
- 2 toggle between minimum temperature and maximum temperature when in limit operation

SETPOINT/LIMIT BUTTON

Toggles between setpoint, limit operation or OFF (programming mode only).

35 FAN SPEED BUTTON

Toggles between L (Low), H (High), HH (very High), AUTO (Automatic).

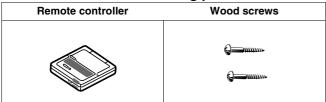
- 36 AIR FLOW DIRECTION ADJUST BUTTON Adjusts the air flow direction.
- AIR FILTER CLEANING TIME ICON RESET BUTTON III

Resets the air filter cleaning time icon.

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2.7.5 Installation

The kit includes the following parts:



Wall plugs	Machine screws
F Jane	

1. Remove the upper part of remote controller

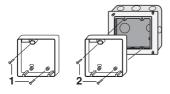


Insert a minus screwdriver into the slots (1) in the lower part of the remote controller (2 places), and remove the upper part of the remote controller.



The PC board is mounted in the upper part of the remote controller. Be careful not to damage the board with the minus screwdriver.

2. Fasten the remote controller



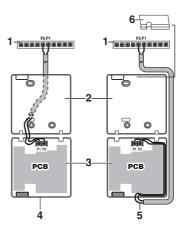
- for exposed mounting, fasten with the two included wood screws (Ø4x30) and plugs.
- for flush-mounting, fasten with the two included machine screws (M4x16).

For the field supplied switch box, use optional accessory KJB111A or KJB211A.



Choose the flattest place possible for the mounting surface. Be careful not to distort the shape of the lower part of the remote controller by overtightening the mounting screws.

3. Wire the indoor unit



- 1 indoor unit
- 2 lower part of the remote controller
- 3 upper part of the remote controller
- 4 wired from the rear
- 5 wired from the top
- 6 notch the part for the wiring to pass through with nippers

Connect the terminals on top of the upper part of the remote controller (P1, P2), and the terminals of the indoor unit (P1, P2). (P1 and P2 do not have polarity.)



When wiring, run the wiring away from the power supply wiring in order to avoid receiving electric noise (external noise).

Wiring specifications

Wiring type	Size
2 conductor, stranded, non- shielded copper cable / PVC or vinyl jacket	AWG18



Peel the shield for the part that has to pass through the inside of the remote controller case (\nearrow).



4. Reattach the upper part of the remote controller



Be careful not to pinch the wiring when attaching.



First begin fitting from the clips at the bottom.

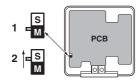


- The switch box and wiring for connection are not included.
- Do not directly touch the PC board with your hand.

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If controlling one indoor unit or one group of indoor units with two remote controllers

Change the MAIN/SUB changeover switch setting as described below.



- 1 Main remote controller (factory set)
- 2 Sub remote controller

Set one remote controller to **MAIN** and the other to **SUB**.



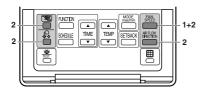
- If controlling with one remote controller, be sure to set it to MAIN.
- Set the remote controller before turning the power supply on.

5. Permission level function

If required, you can limit the user action by restrict FIELD SETTINGS.

Level	Operable buttons
1	All
2	on/off button schedule timer button temperature adjust button operation change/MIN-MAX button fan speed button air flow direction adjust button
3	on/off buttontemperature adjust buttonfan speed button

- For switching between level 1 permission and the selected level in service, proceed as follows:
- 1 Keep the FAN SPEED button pressed,
- 2 and press the 3 other indicated buttons simultaneously while keeping the FAN SPEED button pressed.

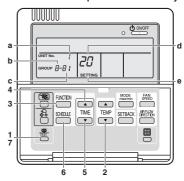


If you want to limit the user action on the remote controller to be defined as SUB, start with only connecting this controller to the unit. Make sure that this controller is set to MAIN (factory set) first, change the permission level to the setting you prefer and only then set the remote controller to SUB.

You can now proceed with connecting the remote controller to be defined as **MAIN**.

6. Field settings

If optional accessories are mounted on the indoor unit, the indoor unit setting may have to be changed. Refer to the instruction manual for each optional accessory.



- a Unit No.
- **b** First Code No.
- c Second Code No.
- d Mode No.
- e Field set mode

Procedure

- 1. When in the normal mode, press the button for a minimum of four seconds, and the FIELD SET MODE is entered.
- 2. Select the desired MODE NO. with the "TEMP" button.
- 3. During group control, when setting by each indoor unit (mode No. 20, 21, 22 and 23 have been selected), push the FUNCTION button and select the INDOOR UNIT NO. to be set. (This operation is unnecessary when setting by group.)
- **4.** Push the upper button and select FIRST CODE NO.
- 5. Push the lower button and select the SECOND CODE
- **6.** Push the "SCHEDULE" button once and the present settings are SET.
- 7. Push the $\frac{3}{1251}$ button to return to the NORMAL MODE.

Example

If during group setting and the time to clean the air filter is set to FILTER CONTAMINATION - HEAVY, SET MODE NO. to [10], FIRST CODE NO. to [0], and SECOND CODE NO. to [02].



- Setting is carried out in the group mode, however, if the mode number inside the parentheses is selected, indoor units can also be set individually.
- 2. The SECOND CODE No. is set to "01" when shipped from the factory.
- 3. Do not make any settings not given in the table.
- **4.** Not displayed if the indoor unit is not equipped with that function.
- When returning to the normal mode, \(\frac{P}{A} \) may be displayed in the LCD in order for the remote controller to initialize itself.
- **6.** It is not possible to change field settings on the remote controller that is set to **SUB**.

[&]quot;### is displayed for about one minute when the power supply is turned on. During this time the remote controller can not be operated.

Mode	FIRST			SECOND CODE NO. Note 2					
No.	CODE								
Note 1	NO.	Description of setting			01		02	03	04
		Filter Contamination - Heavy/Light are settings for for spacing of display time to clean air filter: When filter contamination is heavy, display time to clean air filter is halved.	Ultra long life filter	Light	Approx. 10.000 hrs.		Approx. 5.000 hrs.		
	0		Long life filter		Approx. 2.500 hrs.	Heavy	Approx. 1.250 hrs.	_	_
10(20)			Standard filter		Approx. 200 hrs.		Approx. 100 hrs.		
	1	Long-life filter type has setting for filter-change indication time. Change setting when ultra-long filter is installed.			ong-life filter	Ultra-long life filter		_	_
	2	Thermostat sensor in remote controller			Use		Not use		_
	3	Display (or not display) time to clean air filter count.			Display	Do not display			_
12(22)	1	ON/OFF input from outside: Setting for when forced ON/OFF is to be operated from outside.		Foi	ced OFF	ON/OFF operation			_
12(22)	2	Thermostat differential changeover is a setting for when using remote sensor.		2°F 1°F			_		
13(23)	3	Selection of air flow function: Setting for when using a decoration panel for outlet.		Equipped Not equipped			_		
	4	Air flow direction range setting.			Upper Normal		Lower	_	
15(25)	3	Drain pump operation including humidifying.		E	quipped	Not equipped		-	_
	0	Permission level setting			_evel 2	Level 3		_	
1b	1	Away Function		pe	Not ermitted	Permitted		_	_
	2	Thermostat sensor in remote controller is only for lLimit oOperation and aAway fFunction.			Use	1	Not use	_	_

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2.8 DCS601C71 intelligent Touch Controller

2.8.1 Features

Central remote controller offering more advanced functionality and easier operation than the previous DSC302C71 controller.

Up to 64 groups of indoor units may be connected to 1 unit of this controller.



This controller aims to be a product positioned between the current central controlling device (central controller DCS302C71) and the controller D-BIPS for large scale buildings (in both the viewpoints of application area and functional grade), and is a central controller most suitable for middle and small size buildings.

- < Products Features >
- 1. High Level Functions
 - Annual schedule control
 - Electricity proportional distribution function (option)
 - Air net function (DCS601C71 only)
- 2. Easy Operation
 - Color liquid crystal
 - · Icon display
 - Touch panel application
 - Air conditioner name and zone name input available
- 3. D-III NET × 1 line (64 units)
- 4. Saving expenses
 - Controlling personnel not required (saving control expenses)
 - Energy saving schedule
 - Functions equal to those of a compact monitor panel

(V2318)

Operation Menu

intelligent Touch Controller is capable of starting/stopping operations by group or zone. Collective starting/stopping is also available.

■ Air Conditioner Detail Setup

Temperature setting, switching between temperature control modes, switching of speed and direction of wind, and remote control mode setting are available by the group, zone, or all units collectively.

■ Monitoring of Various Information on Indoor Units

Information on operation such as the operation mode and temperature setting of the indoor units, maintenance information including the filter or element cleaning sign, and troubleshooting information such as error codes can be displayed by the group or zone.

■ Diversified Operation Modes

Operation can be controlled both with the main unit and the remote control to provide diversified operation management. Setting with the main unit allows the following remote control settings by group, zone, or all units collectively:

1. Start/Stop

2. Operation Mode

3.Temperature Setting

•Remote control Inhibited

Remote control Inhibited

•Remote control Inhibited

Remote control Permitted

•Remote control Permitted

•Remote control Permitted

Priority

■ Zone Control Simplifying Complicated Setting Operations

Up to 64 groups can be controlled with the intelligent Touch Controller.

There is a function to allow collective setting for all groups is also available. To eliminate entering the same setting for each group, multiple groups can be consolidated into one zone that can then be registered for uniform settings of the following functions:

Start/stop

•Temperature setting

Switching between operation modes

•Setting of direction and fan speed

•Disabling/enabling the remote control

■ Detailed Scheduled Operation Control

The intelligent Touch Controller allows detailed scheduled operation by the group, zone, or all units collectively. Up to 8 options for an annual schedule can be set. Each schedule can include four types of plans: for Monday through Sunday, Special Day 1~10, Special Days 1 and Special Days 2. Each of the plans allows setting of up to 16 operations.

■ Handy Automated Control

The intelligent Touch Controller offers the following automated controls:

- Change Over Settings: automatically switches between cooling and heating according to the room temperature.
- Temperature Limit Setting: prevents the temperature from rising too high or too low in unmanned rooms.
- Heating Optimization Settings : stops uncomfortable hot air from blowing when the thermostat is off.

2.8.2 System Overview

This intelligent Touch Controller is capable of controlling/monitoring up to 64 groups of indoor units (hereafter "groups").

The main functions of the intelligent Touch Controller include:

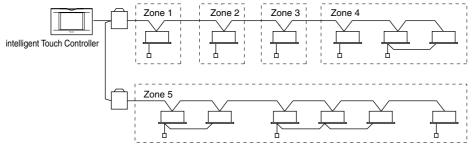
- 1. Collective starting/stopping of operation of the indoor units connected to the intelligent Touch Controller.
- 2. Starting/stopping of operation, temperature setting, switching between temperature control modes and enabling/disabling of operation with the hand-held remote control by zone or group.
- 3. Scheduling by zone or group.
- 4. Monitoring of the operation status by zone or group.
- 5. Display of the air conditioner operation history.
- 6. Compulsory contact stop input from the central monitoring panel (non-voltage, normally-open contact).
- 7. Control and Monitoring of air conditioner with personal computer by the Controller (with the optional DCS004A71).
- * A group of indoor units include:
 - ① One indoor unit without a remote control. ② One indoor unit controlled with one or two remote controls.



3 Up to 16 indoor units controlled with one or two remote controls.



- * Zone control with the intelligent Touch Controller
- * Zone control, which allows collective settings for more than one group, is available with the intelligent Touch Controller, which facilitates the setting operations.

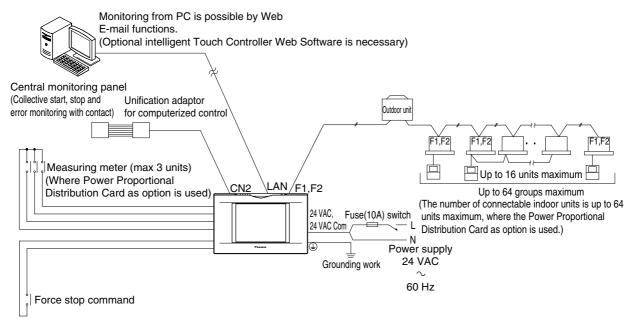


- One setting makes the same setting for all of the units in one zone.
- Up to 128 zones can be set with one intelligent Touch Controller. (The maximum number of groups in one zone is 64.)
- Groups can be zoned at will with the intelligent Touch Controller.
- Units in one group can be divided into more than one zone.

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2.8.3 Options

Connecting Unification adaptor allows using the contact for normal and abnormal operation signal and collective start/stop with a contact. For details, contact the vendor you purchased the product from.



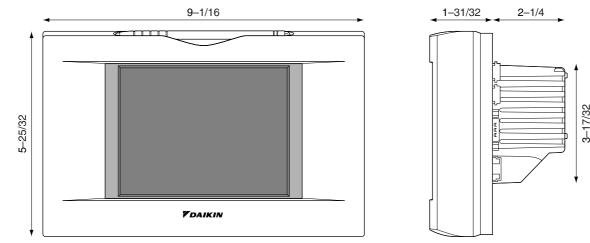
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2.8.4 Specification

Specification

Power	AC24V 50/60Hz			
Power consumption	10 W maximum			
Force stop input	Normally-open contact Contact current approximately 10 mA			
Size	9-1/16×5-25/32×4-7/32 (W×H×D)			
Mass	2 lb 10 oz			

Dimension



The specification and appearance of the product may be modified for improvement without prior notice.

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2.8.5 Part Names and Functions

Front and Side View



PCMCIA Card Slot

Used when updating the intelligent Touch Controller software to a newer version.



Color LCD with Touch Panel

Provides a display for monitoring and operation.

Be sure to use the touch pen provided for operation.

Touch Pen

Use the touch pen for operation. Be sure to use the touch pen for operation. Use caution not to lose the touch pen.

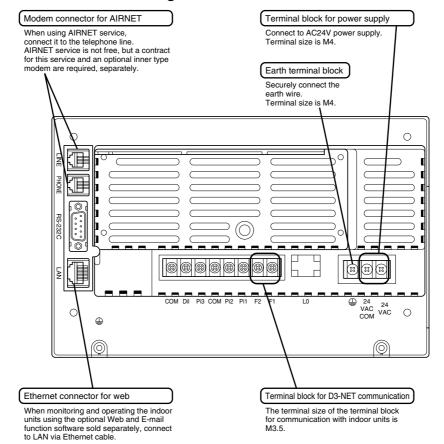
When the pen is lost, contact the dealer you purchased the product from.

NOTE

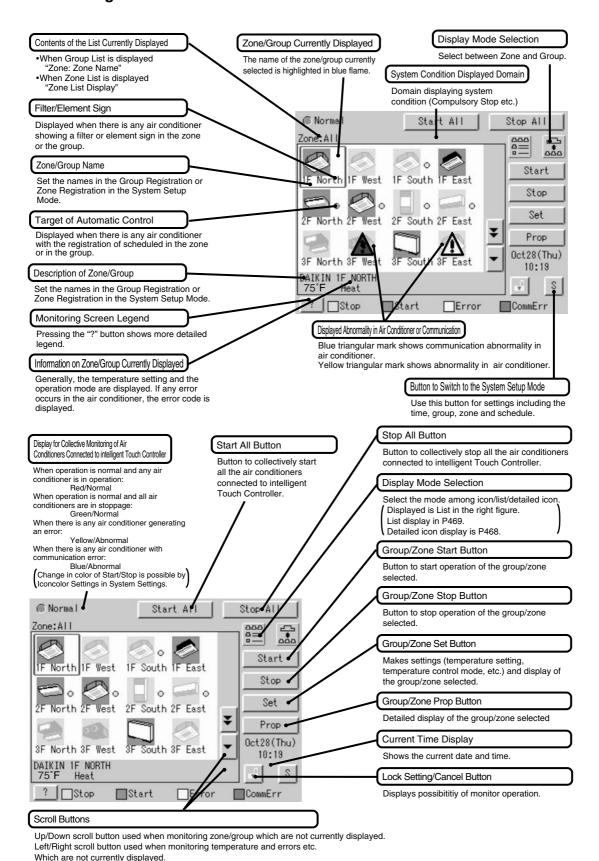
Be sure to use the touch pen for operation of the touch panel of the intelligent Touch Controller.
 Operating with an object other than the touch pen provided may cause damage and failure.

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Terminals on the Back of intelligent Touch Controller

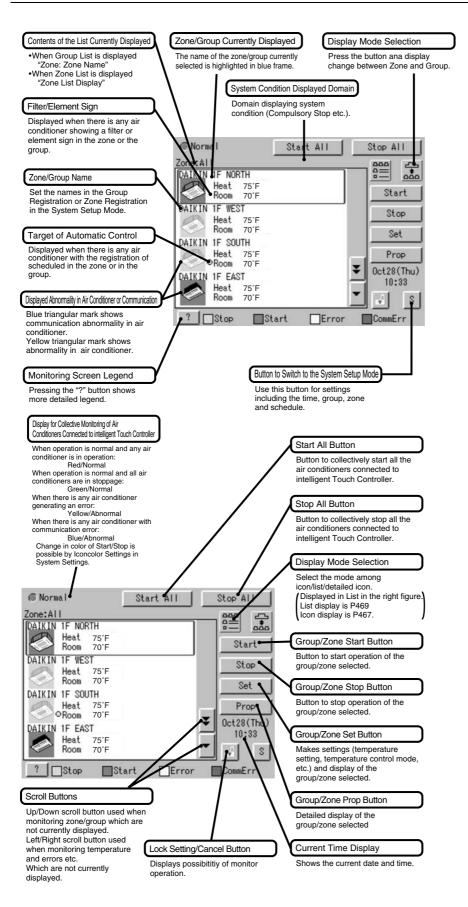


2.8.6 Monitoring Screen Labels and Functions



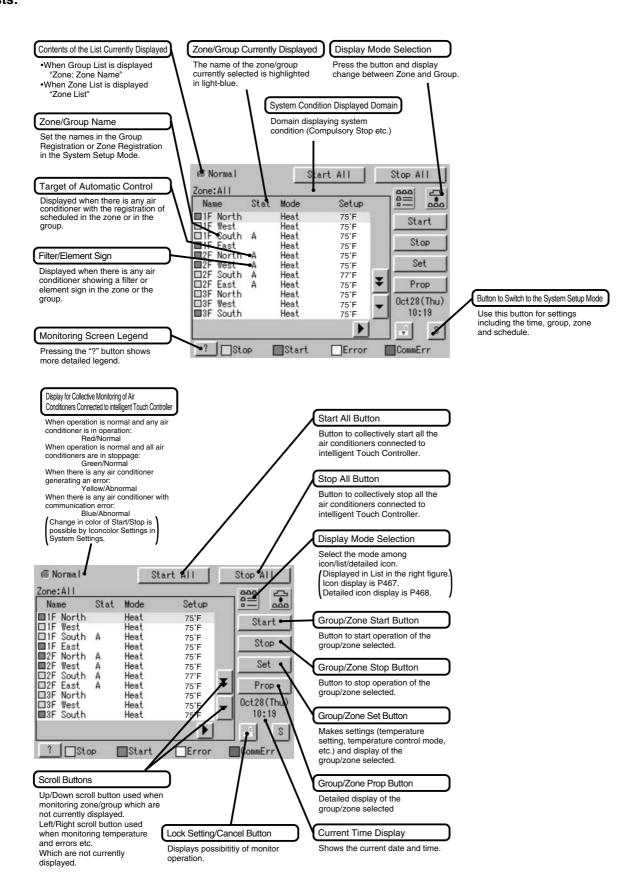
EM05A058

Icons



EM05A058

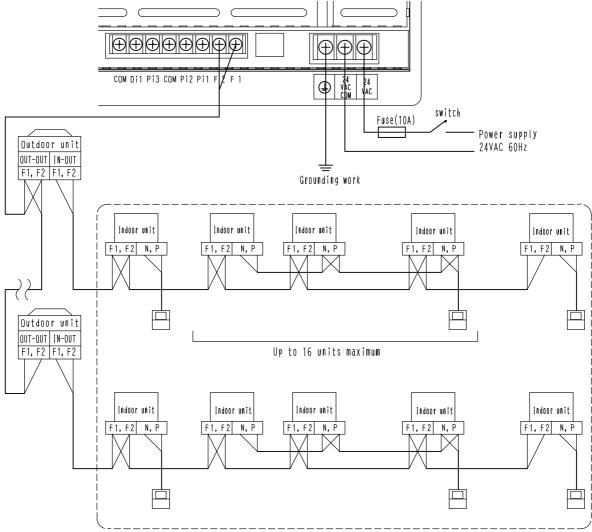
Lists:



2.8.7 Electrical Wiring Connection

When wiring, cut off the power supply (using a local switch) and do not apply power until all work has been finished. Wiring for power supply and Connecting wiring for DⅢ-NET communication of indoor units

In order to perform centralized control of indoor units using this controller, connect the power wiring to terminals 24VAC and 24VAC COM, earth wire to earth terminal⊕ and connecting wiring for DⅢ-NET communication of air-conditioner (indoor unit and outdoor unit) to terminals F1 and F2 respectively as shown in the sketch below.



Maximum up to 64 groups(128 units)

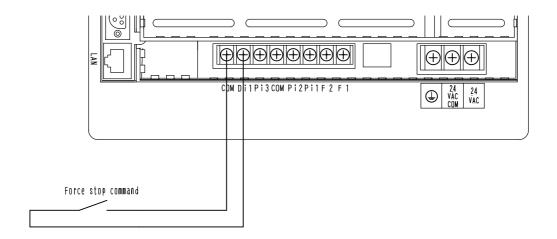
Power cable wiring	1,25mm ²
Fuse	10A
Connecting wiring for DIT- NET communication of indoor and outdoor units	0.75 - 1.25 mm ² vinyl cord or cable with sheath (2 wire) Up to 1000 m maximum (wiring length up to 2000 m maximum) (When shield cable is used, the wiring length is available up to 1500m.) For the type of electric wire, refer to the design guide.

≪ CAUTION≫

- Don't fail to perform installation of Grounding work. Don't connect the grounding wire to any of gas pipe, city water pipe, lightning rod, and telephone grounding wire.
- Don't turn ON the power supply (front switch) until all the works are complete.
 The connecting wiring for communication of indoor and outdoor units is a connecting wiring for the control. Don't clamp these cables together with high voltage cables. Failure to observe this instruction would cause control error.
- Don't connect the power cable to F1, F2 terminal blocks. Wrong connection to these terminal blocks could result in damage and burning of the centralized control devices and of the electric parts of the indoor and outdoor units. This is very hazardous. Check each wired cable once more before turning ON the power switch.

Wiring for force stop input

In order to stop the air-conditioner through force stop input, connect the wiring for force stop input to the terminals Di1 and COM as shown in the sketch below.



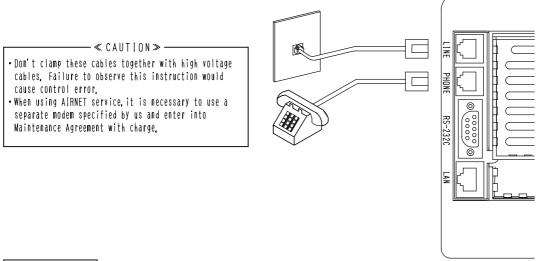
Wiring for force stop input	•0.75 - 1.25 mm²vinyl cord or cable with sheath (2 wire) up to 150m maximum
	•When FORCE-STOP INPUT is kept ON, the indoor units connected thereto are unable to be
	operated because they are force-stopped.
	•Use a contact which can guarantee minimum application load DC16V and 10mA.
	•Use an instantaneous contact of 200msec or more in current feed time, where required.

— ≪ CAUTION≫—

- Don't clamp these cables together with high voltage cables. Failure to observe this instruction would cause control error.
- Terminals COM are inter-connected. Connecting to either one is allowed, but the number of cables connectable to one terminal is limited to 2 pieces.
- Don't connect the power cable to Di, COM terminal blocks. Wrong connection to these terminal blocks could result in damage and burning of the centralized control devices and of the electric parts of the indoor and outdoor units. This is very hazardous. Check each wired cable once more before turning ON the power switch.

Connection to public telephone line

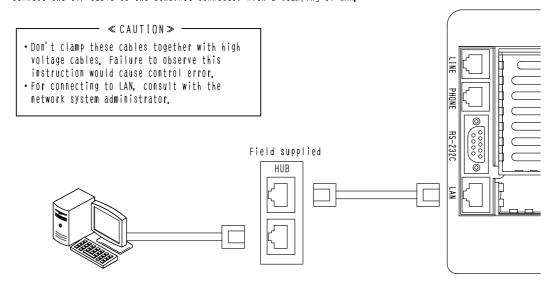
Connect to the telephone line in order to monitor the air-conditioner via AIRNET service. Connect to modular cable from the public telephone line to the upper connector with a stamping of LINE, and connect the modular cable of the telephone to the lower connector with a stamping of PHONE, as shown in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



Connection to LAN

In order to monitor/control the air-conditioner using optional Web and E-mail function software sold separately, use a UTP cable to connect to LAN.

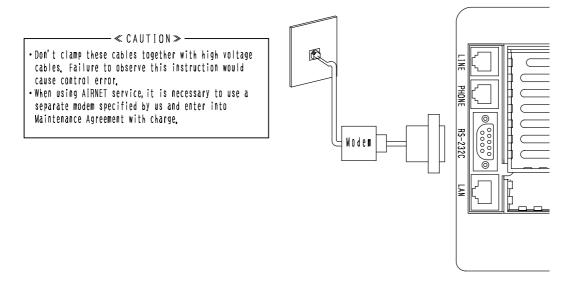
Connect the UTP cable to the Ethernet connector with a stamping of LAN.



Control Devices EDUS39-605

Modem connection

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.

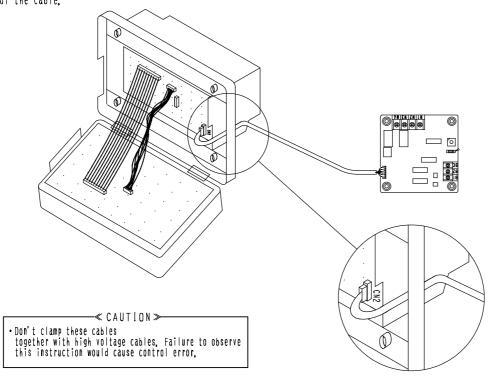


Connection for Unification Adaptor

In order to perform total start and stop/situation monitoring from central supervisory board, etc., connect a Unification Adaptor sold separately.

As shown in the sketch below, open the controller and connect the cable from the Unification Adaptor to CN2 connector located on the printed board on the lower case.

If you route the cable in the cable guide groove on the lower case, you can make a smart connection without any slack of the cable.



1P167242A

EDUS39-605 Control Devices

2.8.8 DCS004A71 Web Software for the intelligent Touch Controller

Functions and Outline

This software enables you to operate and monitor air conditioners linked to the intelligent Touch Controller on your Windows PC, which is connected to the intelligent Touch Controller and the Ethernet communication (LAN).

* The intelligent Touch Controller software integrates with your computer, allowing you to operate and monitor the air conditioners.

A mail server is incorporated to alert you if a linked air-conditioner malfunctions by transmitting emails to a pre-assigned address.

For further information, contact our sales representatives.



Web Interface of the intelligent Touch Controller

Permissions for Login Names

There are two categories of login users: A *General User* can perform basic operations via the web interface and an *Administrator* can set up the system and change system settings.

Two Display Modes

You can select the display mode from two modes during login process: **Basic** mode provides a simple and easy-to-use interface, and **Advanced** mode allows advanced setting options.

Start/Stop Operation

Start or stop all the devices in a group, a zone, or multiple zones simultaneously.

Advanced Settings for Air Conditioners

You can set temperature, operation modes, direction of air flow, air volume, and remote controller mode of all devices in a group, a zone, or multiple zones.

Various Operation Modes

You can operate devices from a web interface, the intelligent Touch Controller console, or a local remote controller. The Administrator can permit or prohibit remote controller operations in a specified group or zone using the web interface.

User Administration

The Administrator can register or delete General Users who can operate air conditioners via the web interface, and set/change his/her own password and those of general users.

Scheduling Function

The Administrator can schedule operations for a specific group or zone. A weekly schedule plus 10 extra schedules can be created.

EM04A059

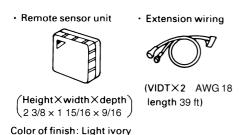
Adaptors

3.1 KRCS01-1 Remote Sensor

The built-in temperature control thermistor of the indoor unit is mounted in the intake port of the main body. Some differences can occur between the temperature setting of the built-in thermistor and the actual indoor temperature. In such cases, remove the thermistor from the indoor unit and remount it near the living area so that the remote sensor can sense the temperature of the living area.

Components

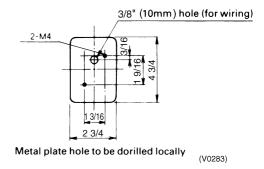
The kit contains the following components:



- Two Mounting Screws
- •(M4×16)

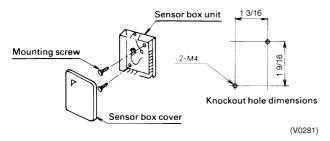
(V0280)

- •Round Crimp Type Terminal
- Two Tie Wraps
- Double-Sided Tape

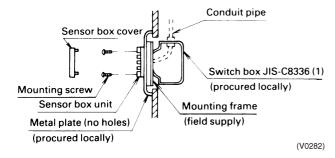


Mounting Procedure

■ Wall Mounting



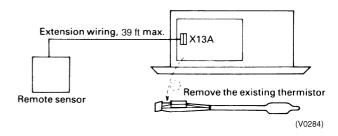
■ Embedded Wiring



- Drill holes in the metal plate (procured locally) for mounting the sensor box unit, as shown in upper right diagram.
- Do not plug the air holes in the sensor box unit.

Wiring Procedure

Use the extension wiring provided to wire between the remote sensor and indoor unit control unit.



■ Remove the unneeded existing thermistor and use the extension wiring to connect the indoor unit's electronic control unit.

Note:

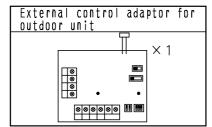
When installing extension wiring, avoid noise and power line interferences that hinder operation. Ensure connections/ contacts are not loose or they can create inaccurate temperatures and faulty installation.

- When using the remote sensor, change the thermostat settings using the remote controller.
- Using the remote controller, change to the field setting mode, select mode No.12, set the setting switch No. to 2, and then set the setting position No. to 02.

3.2 DTA104A 53/61/62 Required Outdoor Unit External Control Adaptor

Must be installed on Indoor Units

Accessories are included in the kit before the installation.



PCB support	× 4
Clamp	×3
Installation manual	× 8

NOTES

- ◆ The kit type (DTA104A61 51 type, DTA104A62 52 type) varies according to air conditioner model.
- The installation plate and box for adaptor PCB are required with the following air conditioner models.

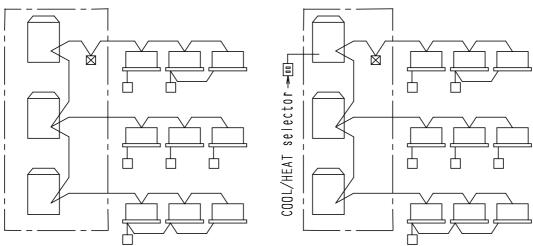
FXFQ KRP1C98

1 General description of system

With the external control adaptor, outdoor units are controlled as follows.

1. Operation mode (COOL/HEAT/FAN) is switched simultaneously for more than one outdoor unit.

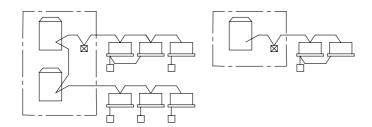
- If switching operation mode by indoor unit remote controller or COOL/ HEAT selector.
 - ⊠ External control adaptor for outdoor unit
 - ∐ Indoor unit remote controller



You can simultaneously switch operation mode for outdoor units in _____.

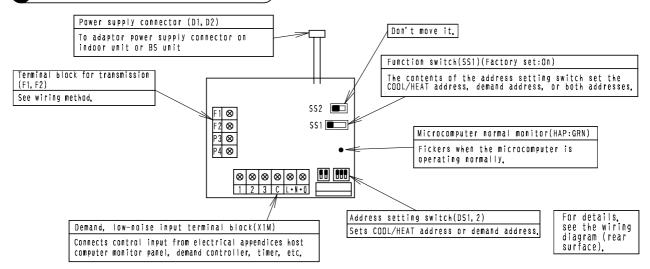
C:1PA63164D-1

Demand control and low-noise control are executed simultaneously for more than one outdoor unit,



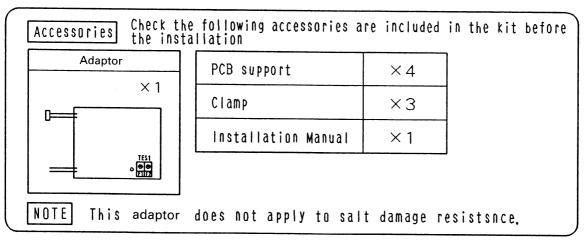
Demand control and low-noise control are executed simultaneously for outdoor units in [____]

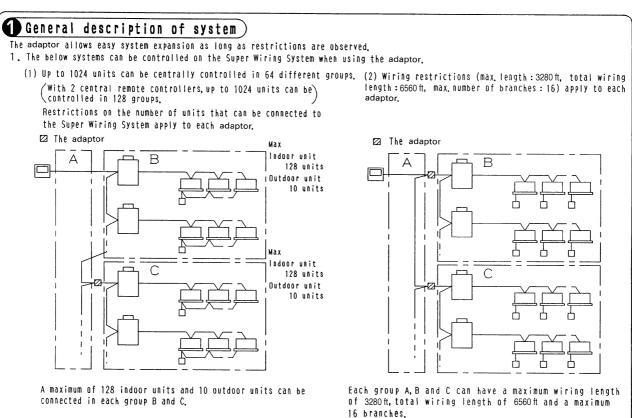
Names of parts and functions



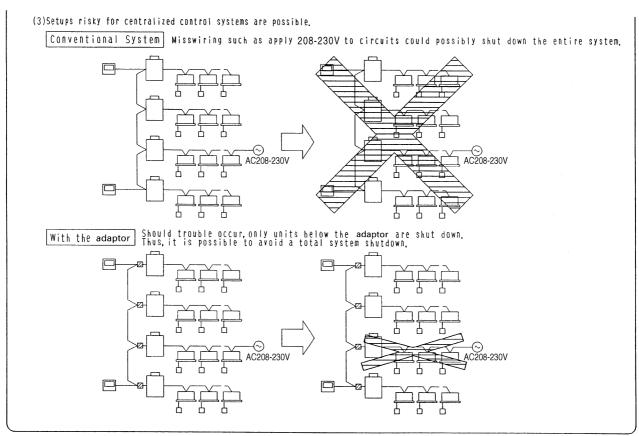
C:1PA63164D-2

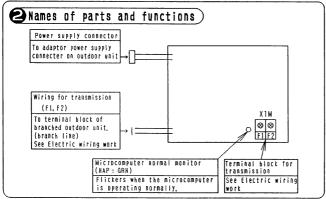
3.3 DTA109A51 DIII NET Expander Adaptor



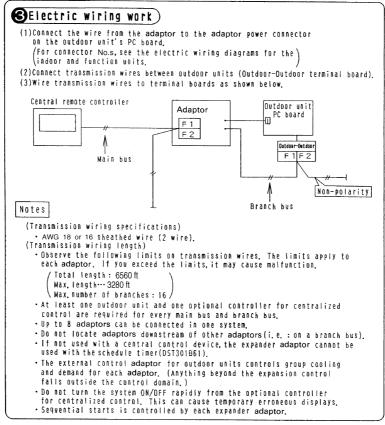


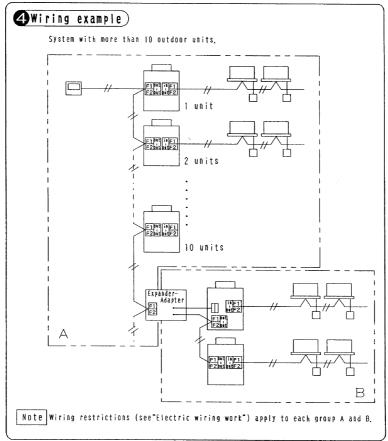
(V0285)





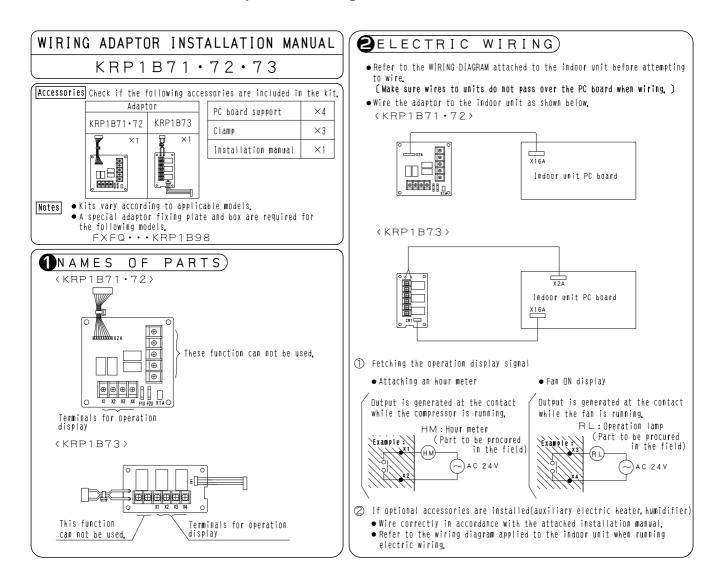
(V0286)

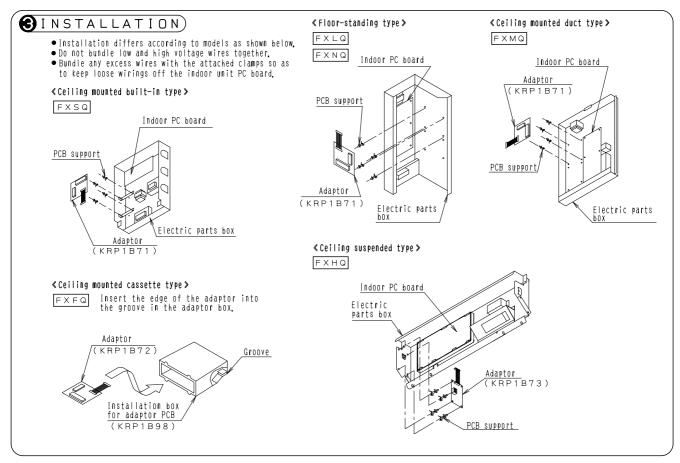




(V0287)

3.4 KRP1B71 / 72 / 73 Adaptor for wiring



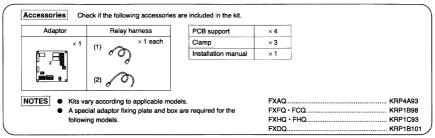


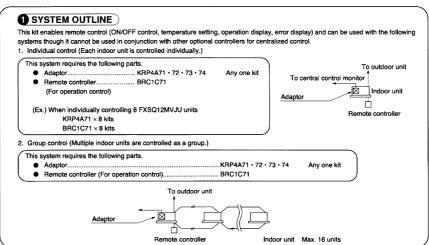
C:2P164806

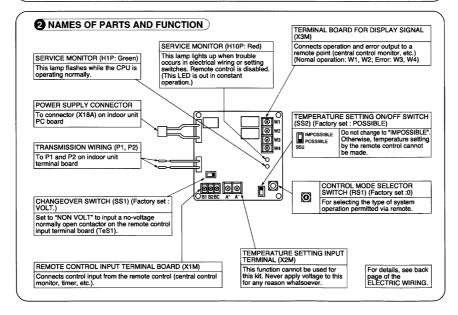
3.5 KRP4A71 / 72 / 73 / 74 Wiring Adaptor for Electrical Appendices

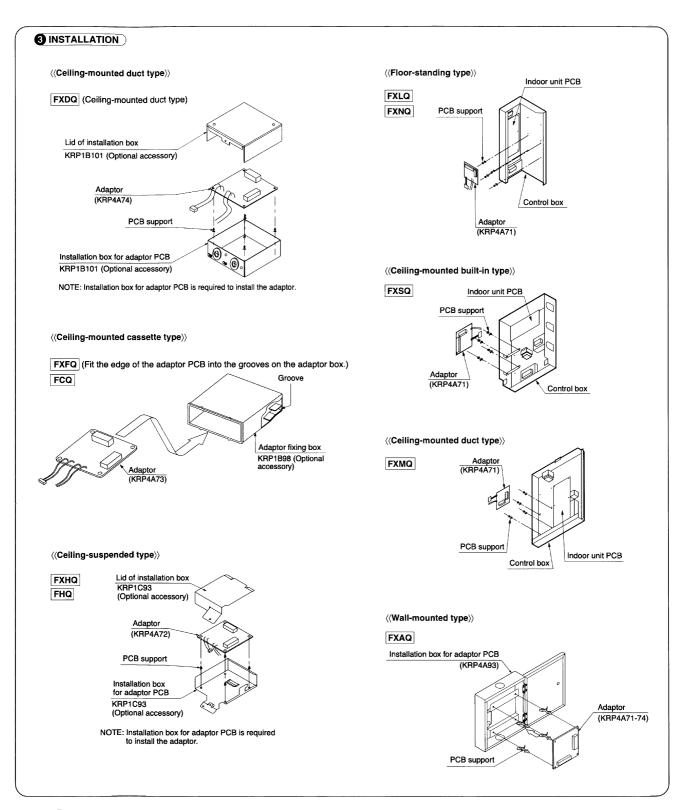
Daikin Air Conditioner

Wiring adaptor for electrical appendices (Group control adaptor)
Installation manual KRP4A71 • 72 • 73 • 74









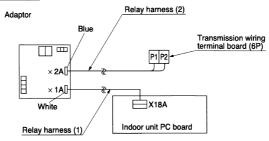
1P161220



① First, wire between the indoor and outdoor units, and then to the separate power sources, and finally between the indoor units and the remote controllers. Then, check if they operate properly. (If wiring for group control by remote controller, check crosswires.)
For details, see the installation manual of the indoor and outdoor units.

② Next, wire between outside units such as the central control monitor, etc. and make the necessary settings. For details, see Wiring to outside units (central control monitor).

Wiring to indoor units



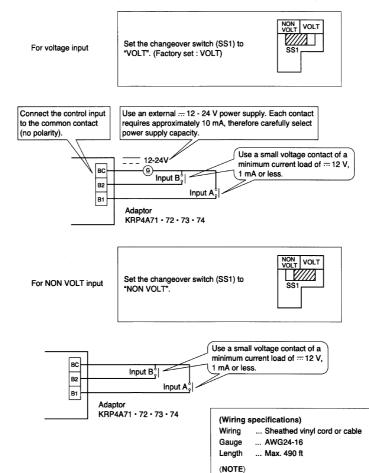
Make connections as shown above, using the attached relay harnesses (1) and (2).

- Connect relay harness (1) to the connector (X18A) on the indoor unit PC board.
- Relay harness (2) has no polarity. Connect it to terminals P1 and P2 on the transmission wiring terminal board inside the indoor unit electric parts box.

Wiring to outside units (central control monitor)

1. Remote control input (operation control)

Wire as described below. Wiring differs depending on whether using a voltage or no-voltage input.



84 Controls

Keep transmission wiring away from power supply wiring to avoid malfunctions.

2. Setting the control mode selector switch (RS1)

Using the control mode selector switch (RS1), select the control mode as described below.



(Factory set) "0" position

1 For specifying individual display

Position	Function
0	Individual display (input ignored)

2 When operating the unit with constant input at input A

Position	Function	When input A is ON	When input A is OFF
1	ON/OFF control impos- sible by remote controller	Operation (normally ON/OFF control impossible by remote controller	
2	Centralized	Operation + ON/OFF control possible by remote controller	
3	OFF control possible by remote controller	Operation + OFF control possible by remote controller (ON control impossible by remote controller)	OFF + ON/OFF control impossible by remote controller
4	ON/OFF control possible by remote controller	ON/OFF control possible by remote control- ler (Operation impossible by optional control- ler)	

(Note)

- Input B is for forced ON/OFF input. When input B is ON, OFF control is possible but ON/OFF control by the
 remote controller is impossible, and input A is igored. When it is OFF, input A is ignored even if selected.
 It is necessary to reselect input A.
- ③ When operating the unit using instantaneous input at input A (Use an instantaneous input of 200 msec or longer ON time.)

Position	Function	Input A	Input B capacity
5	ON/OFF control impossible by remote controller	Turns OFF system with On input Turns ON system with ON input	Input B is for forced OFF input
6	Individual	Turns OFF system with ON input Turns ON system with ON input (Normally ON/OFF control possible by remote controller)	(when ON, OFF control is possible but ON/OFF control by remote controller is impossible, and input A is ignored).

★ For thermostat control using input B

Position	When input A is ON	When input B is ON
С	ON/OFF control impossible by remote controller	Forced thermostat OFF command
D	(Same as position 5)	Energy saving command (*)
Е	Individual (Same as position 6)	Forced thermostat OFF command
F	individual (Same as position o)	Energy saving command (*)

- Forced thermostat OFF command
- Indoor unit fan only operates.
- Energy saving command (*)

The indoor unit operates at 4°F higher (cooling)/lower (heating) the set temperature.

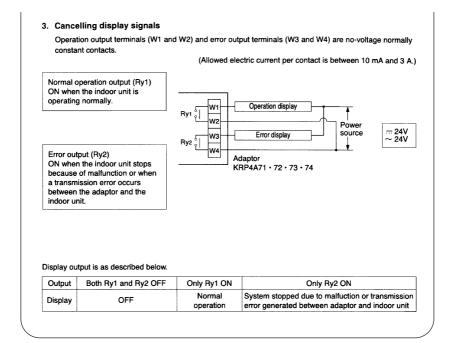
(Notes)

- In such case, even if input A is ON, thermostat control is turned OFF, and all units in the same group will stop.
- When operating the unit using instantaneous input at input A and B (Use an instantaneous input of 200 msec or longer ON time).

Position	Function	When input A is ON	When input A is OFF	
7	ON/OFF control impos- sible by remote controller	Operation (normally ON/OFF control impossible by remote controller		
8	Centralized	Operation + ON/OFF control possible by remote controller		
9	OFF control possible by remote controller	Operation + OFF control possible by remote controller (ON control impossible by remote controller)	by remote controller	
А	ON/OFF control possible by remote controller	ON/OFF control possible by remote control- ler (Operation impossible by optional control- ler)		
В	Individual	Operation (normally ON/OFF control possible by remote controller)	OFF (normally ON/OFF control possible by remote controller)	

(Notes)

- When set to position 7-A, and using the constant mode for input B, forced stop capacity is enabled (input A is ignored).
- At position B, the constant mode for input B is not used.



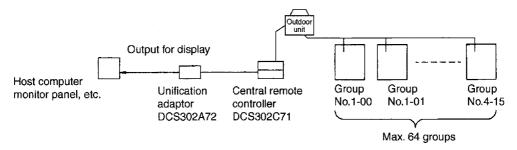
C:1P161221

3.6 DCS302A72 Unification Adaptor for Computerized Control

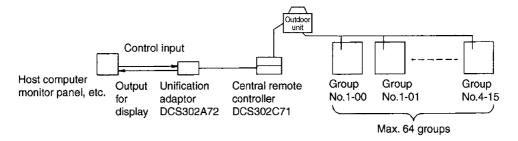
3.6.1 Function

When connected to the central remote controller, this kit enables unified display (operation/malfunction) and unified control (operation/stop).

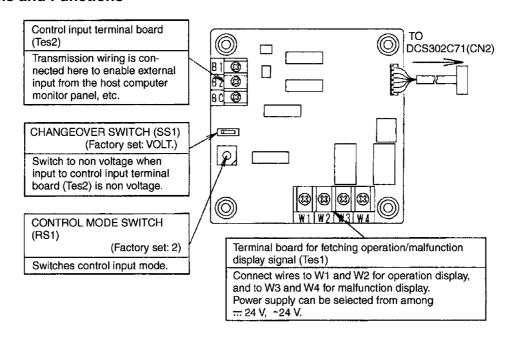
1. Unified Display



2. Unified Control



3.6.2 Labels and Functions

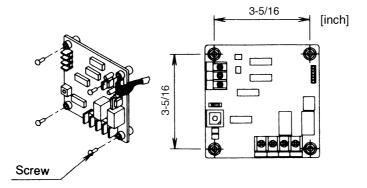


C:1P127045

3.6.3 Installation

Securely install the adaptor inside the electric panel box (field supplied) with the 4 attached screws.

■ Install the adaptor 16 feet from the central remote controller to enable cable connection.



Note

- 1. Do not damage the PC board with your screwdriver or other tools.
- 2. Install the adaptor inside an electric panel box to protect from electromagnetic waves and dust.

3.6.4 Electrical Wiring Work and Initial Setting

First, wire between the indoor and outdoor units, and between each unit and the power supply source. Then, wire between the indoor unit and remote controller. Finally, check that operation is normal.

For details, refer to the installation manuals for the indoor and outdoor units.

Next, wire between the indoor unit and the central remote controller. Then, wire the central remote controller to the power supply source and make the necessary settings. Finally, check that operation is normal.

For details, refer to the installation manuals for the central remote controller.

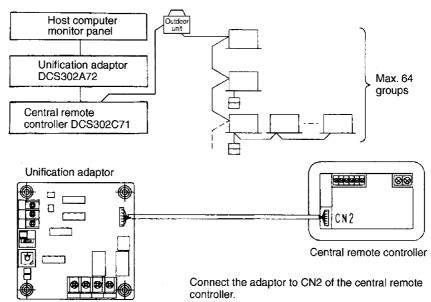
Wire between the unification adaptor for computerized control and the central remote controller.

Refer to manual: WIRING TO THE CENTRAL REMOTE CONTROLLER

Set the CHANGE OVER SWITCH and CONTROL MODE SWITCH. Wire to the host computer monitor panel or other external input device.

Refer to manual: WIRING TO EXTERNAL INPUT DEVICES

Wiring to The Central Remote Controller



C:1P127045

Wiring to External Input Devices

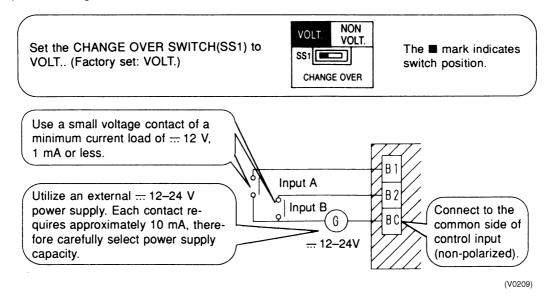
Wire specifications:

2- conductor, 18 AWG, stranded, non-shielded copper cable / PVC or vinyl jacket Max. length: 490 ft.

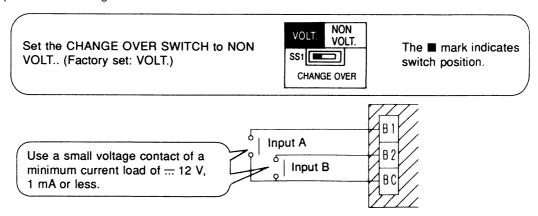
1. Control Input: Unified Operation/Stop

Wire according to input carrying voltage or not, as shown in the following diagrams:

(1) Input with Voltage:



(2) Input with Non Voltage:



2. Control Mode Switch (RS1) Setting

Control mode can be selected from input A and B at this switch on the PC board adaptor.

(Factory set: 2)



(1) For Normal Operation by Input A

Position	Input A
3	$OFF \rightarrow ON$: Unified Operation
2	ON → OFF: Unified Stop

[■] Input B can be disregarded.

(2) For Instantaneous Operation by Input A and B

Use an instantaneous input of 400 milli-sec. or more at ON time.

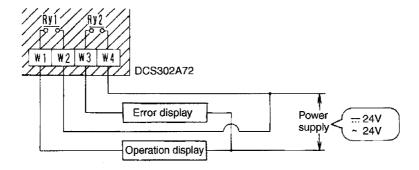
Position	Input A	Input B
3	On: Unified Operation	ON: Unified Stop

(3) Do not set the switch to position 1. This switch can be set at any time.

3. Fetching the Display Signal

Terminals W1 - W4 are non-voltage contacts used in normal operation to output operation display (W1 and W2) and malfunction display (W3 and W4) signals.

The allowable current per contact is 10 mA - 3A.



Output conditions are indicated as shown in the following table:

When Ry1 and Ry2 are OFF	When only Ry1 is ON	When only Ry2 is ON
		At least 1 unit has stopped operating due to malfunction, or a communications error has occurred between the central remote controller and the indoor unit.

C:1P127045



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 - Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any inquiries, please contact your local importer, distributor and/or retailer.



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JQA-1452

About ISO9001

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the "design, development, manufacture, installation, and supplementary service" of products manufactured at the plant.



EC99J2044



JQA-F-90108

About ISO 14001

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited compliance organisation as having an appropriate programme of environmental protection procedures and activities to meet the requirements of ISO 14001.

Dealer

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