20. Unification Adaptor for Computerized Control

20.1 DCS302A52

Function

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

1. Unified display





C: 2PA53489

325

Names of parts and function

adaptor

Output for disp





Большая библиотека технической документации https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

каталоги, инструкции, сервисные мануалы, схемы.

Installation

- Securely install the adaptor inside the electric panel box (field supplied) with the 4 attached screws.
- Install the adaptor in a place within 5 m from the central remote controller to enable cable connection.



NOTE

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

Electric 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 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 operation is normal.

• For details, refer to the installation manual for the central remote controller. Wire between the unification adaptor for computerized control and the central remote controller.

Refer to WIRING TO THE CENTRAL REMOTE CONTROLLER

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

Refer to WIRING TO EXTERNAL INPUT DEVICES .

WIRING TO THE CENTRAL REMOTE CONTROLLER



C: 2PA53489

Control Systems

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20.1 DCS302A52

WIRING TO EXTERNAL INPUT DEVICES

(Wire specifications)

 $0.75 - 1.25 \text{ mm}^2$ gauge sheathed vinyl cord or cable (2-wire) Max. length: 150 m

1. Control input (Unified operation/stop)

Wire as explained here following, depending on whether input carries a voltage (VOLT.) or not (NON VOLT.).
(1) Input with voltage



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.

Control Systems

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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.



Output conditions are indicated as below.

When Ry1 and Ry2 are OFF	When only Ry1 is ON	When only Ry2 is ON
All indoor units are stopped.	No error has occurred with the indoor units, and at least 1 unit is operat- ing.	At least 1 unit has stopped operating due to malfunction, or a communica- tions error has occurred between the central remote controller and the indoor unit.

C: 2PA53489

21. Wiring Adaptor for Other Air-Conditioner

21.1 DTA103A51

OH08-1

Applicable models

Kit

DTA103A51

ACCESSORIES

Check the following accessories are included in the kit.



D **FUNCTION**

This kit contains an I/O interface adaptor for optional controller for centralized control, used when there is a non-connectable air conditioner. When connected to the central control line, this adaptor enables operation/stop and display of operation/error monitors from the optional controller

2 NAMES OF PARTS AND FUNCTION



Size

GENERAL INSTRUCTIONS

- All wiring, components and materials to be 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 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 the equipment shuts OFF when the switch is shut OFF.

WIRING TO CONNECTED UNITS

CONTROL OUTPUT

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

Ry1 and I	Ry2 contact specificati	ons
Voltage	Max. current	Min. current
1~50Hz 220-240V 1~60Hz 220V	2A	1mA
	3A	1mA

Output modes include instantaneous output and constant output. Mode is changed at the contactor switch (SS4). (Factory set: INS)

MONITOR INPUT

Wire as explained here following, depending on whether input carries a voltage (VOLT.) or not (NON VOLT.). Make the VOLT./NON VOLT. setting at the monitor input changeover switch (SS1).

WIRING SPECIFICATION

Power supply wiring



Туре

H05VV-U3G

(For voltage charged input) (For non voltage input) Set the monitor input changeover switch to NON VOLT. (Factory set: VOLT.) Set the monitor input changeover switch to VOLT. (Factory set: VOLT.) Utilize an external ... 12-24 V power supply. Each contact requires 12approximately 10 mA, therefore care fully select power supply capacity. Connect con-24V G trol input to Error input Use a small voltage con-1BC the common tact of a minimum current load of --- 12 V, 1 mA or contact (non-1B2 Use a small voltage contact of a minpolarized). imum current load of ... 12 V, 1 mA less. **J**B 1 Normal 17-1 Normal or less. operation input operation input

① Switch the malfunction signal switch (SS3) according to needs (Factory set: W/O [OFF]). Set the switch to W (ON) to display errors even if no operation feedback from the indoor unit is available, for example, when power to the indoor unit is OFF. Together, set the individual switch (SS2) to OFF (ON).

NOTE

- This switch is ineffective when SS2 is set to ON (OFF).
 The optional controller display will change, as shown on the right, depending on the monitor input state and the malfunction signal switch (SS3) setting.
- After switching the optional controller from stop to operation, it will take from 10 to 30 seconds before the optional controller display will indicate an error.
- ② Set the group No. at the central control group No. setting switches (RS1 and RS2). Refer to the below table to set group No. Group No. increases in the order of 1-00, 1-01 ... 1-15, 2-00, ... 4.15. Refer to the installation manual of the optional controller.

RS1 switch se	tting	and	d up	per	gro	up i	No.	pos	itior	1
Position	0	1	2	3	4	5	6	7	8	9
Group No.	∇	1	2	3	4			-		



Make settings before turning ON the power.

POWER SUPPLY WIRING

Power supply can be selected from a 1~50 Hz 220-240V source and a 1~60 Hz 220V source. Check power supply specifications and properly wire the source to the adaptor « NOTE »

- Shield part
- Ground wires as shown in the figure on the right. The adaptor may malfunction or be damaged if improperly wired. The fuse is designed for short-circuit protection (Overcurrent protection).
- Therefore, it may not offer sufficient protection against improper voltage

(SS3)	Optional c	ontroller display at co	mmand output	
Malfunc-		e		
signal	Operation input ON	Operation input OFF	Error input ON	
W	Operation	Error (A1 display)	Error (At display)	
W/O	display	Operation display	Error (AT display)	

NOTE

Earth screw

C-cup washer

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Group number need not be set on this adaptor during in-dividual use with either a a wiring adaptor for electrical appendices or a schedule timer. Setting is automatic. First and second group Nos. are indicated as below.



(n)

1 - 15

Upper No.: 1 Lower No.: F Upper No. Lower No.



C: 2PA53853

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21.1 DTA103A51 / 22.1 DMS502B51

22. Interface for use in BACnet® 22.1 DMS502B51 Components The following parts are attached to this unit. Make sure to check them before installation. Interface for use in BACnet® 1 set INSTALLATION MANUAL 1 сору 🔁 Names and functions 0 f each part RS232C connector for PC communication Modem connector Connector for connecting with PC for commissioning for AIRNET When using AIRNET service, connect it to the Terminal block for watt hour meter (option) Terminal block for DⅢ-NET communication (option) RS232C connector for central monitoring board communication telephone line This is used when distribution This connector for connecting with the central monitoring board using RS232C the power supply to indoor units(No Voltage) (option model name:DAM412B51) Terminal block for communication with air conditioners (option model name:DAM411B51) 263 (15) (13) 1 3 0 68.5 ⊕ 0 0 æ C)C) • 0 je D1 BOARD PCNCIA o¦j≩ 275 260 ⊕ 10BASE: 00BASE: BACKUP 0 0 DAIKIN D-BACS ⊕ ⊕ CPU Itility National State attit attit attit attit 0 0 0 0 111 0 0 0 0 111 1 -2 RT 0 0 111 0 0 0 0 0 111 0 0 0 0 0 111 0 0 0 0 0 111 POWER AC100-240V 50/60Hz D N L POWER OFF ON Di 162364 RS485 DO-1 DO-2 A1 A2 B1 B2 • ••• **(** 000000 0000 $\oplus \oplus \oplus \oplus$ Power supply switch Turn this switch to Terminal block for DⅢ-NET communication ON when using Terminal block for communication with Terminal block for force stop input of indoor unit Power supply air conditioners terminal block Earth terminal block This is used when stopping the indoor units compulsorily by contact input (No Voltage) Connect the lines Connector for BACnet Make sure to connect with AC100-240V communication the earth wire This connector is used for Terminal block for contact output communicating with a client by BACnet communication system Do-1:ON when the unit malfunctions Do-2:ON when an air conditioner R2. 2 malfunctions \<u>ø10</u> Detailed drawing of fixing hole

Control Systems



1P191169C

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22.1 DMS502B51

1P191169C

OH08-1

1P191170C

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22.1 DMS502B51

Control Systems

1P191170C 335

C: 1P191170C

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22.1 DMS502B51 / 23.1 DMS504B5-

23. Interface for use in LonWorks^{\ensuremath{\mathbb{R}}}

23.1 DMS504B51

23.1.1 Installation

1P111315-1-2

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23.1 DMS504B51

OH08-1

OH08-1

3D040974

Control Systems

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Interface for use in LONWORKS®

3D040975A

OH08-1

Control Systems

Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

24. Optional DIII Board

24.1 DAM411B51

1 Components)

1P191165B

1P191165B

345

Control Systems

DOard

2

24.1 DAM411B51

(Do not fail to use a round crimp terminal with reinforcing sleeve for safety For external wiring) wiring connection to the Interface for use in BACnet[®].)

Control Systems

1P191166C

2

25.1 DAM412B51

1P191166C

Control Systems

26. Optional DIII Ai Unit

26.1 DAM101A51

27. intelligent Manager

OH08-1

27.1 DAM602B51 / DAM602B52

27.1.1 Model Series (Factory in Charge)

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

* MADE IN JAPAN

27.1.2 Concept and Main Specifications

<Product concept>

- A/C monitoring panel targeting the simplified BMS market.
- The needs of the current i-Manager A/C monitoring panel will be covered continuously, and we make inroads into the BMS market by expansion of functions.
- Expansion of function to be realized by optional software. Customers can select required functions.
- Price can be set up in accordance with required functions.

<major< th=""><th>Spec</th><th>cifica</th><th>tion></th></major<>	Spec	cifica	tion>
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Major modified functions		I-Manager II	I-Manager III	
Constitution of iPU (Number of III ports)		2,3,4 port version	2,4 port version	
Power proportional distribution		0	DAM002A51 (option)	
ECO (Energy saving/Power limit control)		0	DAM003A51 (option)	
Individual control Monitoring of abnormality *1				
function	Control setting *2			
Power proportional distribution data *3				
Analog interlock function			0	
Corresponding with air cooled chillers and CHESBAC (Monitoring of AIRNET data)		_	0	
Number of control points of control group		Max. 128 points	Max. 1024 points	
Optimum starting control (from Jan/2007)			0	
Indication of history of operation source (from Jan/2007)			0	
Moni	toring of continuous operation time	0		
	Calendar	Rotation	1-year use disposable	
Use of	built-in optional modem for AIRNET		0	

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

*2: Schedule control setting, Set temperature control setting *3: PPD software(DAM002A51) is required for the PPD data available on web.

Control Systems

27.1.3 Installation

Please read these "SAFETY CONSIDERATIONS" carefully before installing this unit and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference. This unit comes under the term "appliances not accessible to the general public".
 Meaning of warning, caution and note symbols. ▲ WARNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury. ▲ CAUTION Indication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alect against unsafe practices. ▲ NOTE Indication situation that may result in equipment or property-damage-only accidents.
(A WARNING)
Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine by yourself. Improper installation may result in electric shocks or fire.
Perform installation work in accordance with this installation manual. Improper installation may result in electric shocks or fire,
Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in electric shocks, fire or the unit falling.
Carry out the specified installation work after taking into account earthquakes. Improper installation work may result in the equipment falling and causing accidents.
Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
Make sure that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires, Improper connections or installation may result in fire.
When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened. Improper positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating,
Before touching electrical parts, turn off the unit.
Ground this unit. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire Incomplete grounding may result in electric shocks.
Do not reconstruct or change the settings of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may result.
Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock,
Install an leak circuit breaker, as required. If an leak circuit breaker is not installed, electric shock may result.
Do not install this unit in the following locations. (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen. plastic parts may deteriorate and fall off or result in water leakage. (b) where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage. (c) parts may chicken contenament is waye
(c) next methods (uniting creations) and (c) next (c)
CAUTION
Be very careful about product transportation,
Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.
(▲ NOTE
Install this unit, power supply wiring and connecting wires at least 3,5ft, away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 3,5ft, may not be sufficient enough to eliminate the noise.)
This unit is a class A product.
In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures,
Components
The following parts are attached to this unit. Make sure to check them before installation.
intelligent Processing Unit 1 set
INSTALLATION MANUAL 1 COPY

1P177851C

1P177851C

Control Systems

1P177851C

Control Systems

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1P177853B

1P177853B

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27.1 DAM602B51 / DAM602B52

28. intelligent Touch Controller

28.1 DCS601C51

28.1.1 Feature and Specification

This controller is a central remote controller offering higher functions than those of the previous controller DCS302C(A)61, and easier operation.

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 DCS302C(A)61) and the controller intelligent-manager 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 (DCS601C51 only)
- 2. Easy Operation
 - Color liquid crystal
 - Icon display
 - Touch panel application
 - Air conditioner name and zone name input available
- 3. D-III NET x 1 line (64 units)
 - Saving expenses
 - Controlling personnel not required (saving control expenses) Energy saving schedule
 - Functions equal to those of a compact monitor panel

Specification

Power		AC100 - 240V 50/60Hz	
Power consumption		10 W maximum	
Force stop input		Normally-open contact Contact current approximately 10 mA	
Operating temperature	Ambient temperature	0°C~40°C	
range	Ambient humidity	85%RH (Non condensing)	
Storage temperature	Ambient temperature	-10°C~50°C	
range	Ambient humidity	85%RH (Non condensing)	
Size		230×147×107 (W×H×D)	
Weight (Mass)		1.2kg	

Dimension

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

C: 3P073677-12R

Unit:mm

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28.1 DCS601C51

Operation Menu

intelligent Touch Controller is capable of starting/stopping of the operation by the 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, by the zone or 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, troubleshooting information such as error codes can be displayed by the group or the 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 the group, by the zone or collectively:

 1. Start/Stop
 2. Op

 :(Remote control) Inhibited
 :(F

 :(Remote control) Permitted
 :(F

 :Priority
 :(F

2. Operation Mode :(Remote control) Inhibited :(Remote control) Permitted 3.Temperature Setting :(Remote control) Inhibited :(Remote control) Permitted

Zone Control Simplifying Complicated Setting Operations

Up to 64 groups can be controlled with the intelligent Touch Controller. More than one group can be consolidated into a zone, which can be registered, to allow the following

settings by the zone. This eliminates the need for repeating the same setting operation for each group. Function to allow collective setting for all groups is also available.

- Start/stop
- · Temperature setting
- \cdot 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, by the zone or collectively. Up to 8 options for annual schedule can be set. Each schedule can include four types of plans: for Monday, Tuesday... 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 can do the following.

- 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 heating the thermo is off.

28.1.2 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. Power distribution of the air conditioners. (With the optional DCS002C51)
- 8. Control and Monitoring of air conditioner with personal computer by the Controller (with the optional DCS004A51).

(1) One indoor unit without a remote control. (2) One indoor unit controlled with one or two remote controls.

Up to 16 units

* 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.

3P073677-12B

28.1.3 Double intelligent Touch Controllers

Using two intelligent Touch Controllers allows central control of indoor units from different places.

28.1.4 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. Also, by connecting DIII NET-plus adapter, it is possible to operate and monitor the indoor units of 64 groups (intelligent Touch Controller plus DIII NET-plus adapter-128 groups in total) additionally.

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28.1.5 Part Names and Functions

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28.1.6 Terminals on the Back of intelligent Touch Controller

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28.1.7 Part Names on the Monitoring Screen and the Functions

lcon

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Control Systems

EM04A055A

Control Systems

Control Systems

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28.1 DCS601C51

28.1.8 System Wiring

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 DIN-NET communication of indoor units

In order to perform centralized control of indoor units using this controller, connect the power wiring to terminals L and N, earth wire to earth terminal \oplus and connecting wiring for D ${\rm I\!I-NET}$ communication of air-conditioner (indoor unit and outdoor unit) to terminals F1 and F2 respectively as shown in the sketch below.

• 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.

Control Systems

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.

1P153198D

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Wiring for force stop input and for electric power distribution

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.

In addition, in order to calculate the electric energy using optional Power Proportional Distribution software, connect the wiring for electric energy to the terminals Pi and COM as shown in the sketch below.

1P153198D

Connection to public telephone line

OH08-1

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 Systems

DⅢ-NET Plus adaptor connection

In order to increase the number of indoor units to be controlled, connect DⅢ- NET Plus adaptor using RS232-C cable attached to the adaptor.

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.

28.2 DCS002C51 — Power Proportional Distribution Card

Function and Outline	Power Proportional Distribution Card, in combination with an existing intelligent Touch Controller, enables to proportionally calculate and display electricity amount used by air conditioner per indoor unit.
Main Functions	 Power proportional distribution results data can be saved for 12 months. (max. 12 months and 30 days) Per intelligent Touch Controller, power proportional distribution can be calculated for 64 indoor units at maximum. When DIII-NET Plus Adaptor is connected, power proportional distribution can be calculated for more
	 64 indoor units at maximum (a total of 128). 3 Electric power meters at maximum can be connected to an intelligent Touch Controller. When DIII-NET Plus Adaptor is connected, more 3 Electric power meters at maximum (a total of 6) can
	 be connected. Power proportion distribution results data can be saved into a PCMCIA card. Data is saved CSV format generally applied to personal computers, so bills can be issued by use of a
	general purpose table calculation software package in easy manners. (A personal computer and a general purpose table calculation software package can be available separately.)

Precautions

OH08-1

This system calculates electricity consumptions by size of indoor units, run time, expansion valves open gap, suction rate and the number of pulses from the power meters installed at the Outdoor Units. This method is not calculated by direct measurement alone.

Control Systems

28.3 DCS004A51 — Web Software

Functions and Outline

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

* The intelligent Touch Controller functions as a Web server to visit the Website of the intelligent Touch Controller through the Internet Explorer, which is incorporated in the PC like as its standard software, thus making it possible to operate and monitor the air conditioners.

Furthermore, through the use of a mail server, if a malfunction occurs in any of the air conditioners which are linked to the intelligent Touch Controller, it will be able to transmit mails to a pre-assigned address to alert you to the malfunction.

For further information, contact our sales representatives.

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28.3 DCS004A51

Web Interface of the intelligent Touch Controller

Permissions: Privileges Given to Each Login Name

There are two categories of login users: General User who can perform basic operations via the web interface and Administrator who can setup the system and change system settings.

Two Display Modes

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

Start/Stop Operation

You can start or stop all the devices in a group, a zone, or multiple zones at a time.

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. Also the Administrator can permit or prohibit remote controller operations of devices 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 General Users' password.

Scheduling Function

The Administrator can precisely schedule operations for a specific group or zone of devices. Weekly schedule and 10 extra schedules can be created.

EM04A057

29. Parallel Interface

29.1 DPF201A51 — Basic Unit

This kit contains the following components.

Confirm them before installation. Refer to 29.2 Body Refer to 29.3

Four M6 mounting screws are necessary for installing the body.

SYSTEM CONFIGURATION

DESCRIPTION OF FUNCTIONS

- 1) A maximum of 16 groups of indoor units can be turned ON/OFF individually by entering the contact point.
- Operating conditions, abnormal conditions, and display time to clean air filter can be 2) monitored at no-voltage normally open contactors.
- 3) All indoor units connected to the centralized control line can be stopped simultaneously by forced OFF input.
- 4) By installing up to 4 additional units of this kit, a maximum of 64 groups of indoor units of the centralized control line can be controlled and monitored individually.

When combined with optional accessories, the following functions can be realized.

- For details, refer to the installation manuals of respective units. 5) Room temperature unit (DPF201A52)
- This unit converts indoor temperatures between 0 and 50°C of any 4 groups of indoor units (air inlet temperature) to 0 to 5V DC and outputs the voltage.
- 6) Temperature set unit (DPF201A53)
 - By applying 1.6 to 3.2VDC, the indoor temperature of 16 groups can be set individually.

Control Systems

Securely fix the basic unit with the mounting screws (M6).

Mounting pitch

NOTE) To protect against the influence of electromagnetic interference or dust, install the basic unit in the switch box. (A mounting space of W x H x D = 450 x 290 x 150 mm or more is necessary.)

Before wiring, set the initial setting switches and connectors on the PC board in the basic unit.

NOTE) Do not change DS2 from the factory set position shown above. "■ " indicates the switch position. The same notation applies to the following switches.
(B0206)

- Master controller setting CN (CN1: With the factory equipped connector) When connecting 2 to 4 units of this kit from 1 centralized line, use only the connector equipped with parallel interface of one unit. Remove connectors of other units. When using this kit with data calculate unit, remove the connector of this kit.
- ② Control mode changeover switch (RS1: Set to the factory set position 1.)

Set the control mode of the indoor unit according to the setting of the rotary switch.

Position	Function	Remote controller operation
RS1	Individual	Always enabled.
RS1	Centralized	Enabled when operated from this kit. Disabled when this kit does not operate.
11213 RS1	Remote controller operation mode dis- abled.	Only the control mode is always dis- abled.

③ Indoor unit changeover switch (DS1: Control is factory set to 1-00 to 1-15.) The switch sets the range of the group numbers of the indoor unit to be controlled by this kit.

Setting range	1-00 ~ 1-15	2–00 ~ 2–15	3–00 ~ 3–15	4-00 ~ 4 -15
Setting of DS1	1 2 3 4 0 N 1 2 3 4 DS1 ADDRESS/ INDOOR	1 2 3 4 0 N 1 2 3 4 DS1 ADDRESS/ INDOOR	1 2 3 4 0 N 1 2 3 4 DS1 ADDRESS/ INDOOR	1 2 3 4 0 N 1 2 3 4 DS1 ADDRESS/ INDOOR

After setting the group numbers, paste the numbered seals of respective control ranges to the attached display sticker.

Paste the room name label near the LED for ON/OFF input monitoring, as shown above. (B0207)

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④ Voltage/non-voltage changeover switch (SS1: Factory set to voltage side.) Set the switch as shown below according to the specification of the ON/OFF operation input from the host computer monitor panel.

Position	Input from host computer monitor panel
VOLTAGE NON VOLTAGE	Voltage (16 to 24VDC is applied upon com- mand.)
VOLTAGE NON VOLTAGE	Non-voltage normally open contactor (Contac- tor "closes" upon command.)

(5) Continuous input/instantaneous input changeover switch (SS2: Factory set to instantaneous side.) Set the switch as shown below according to the specification of the ON/OFF operation input from the host computer monitor panel.

Position	Input from host computer monitor panel
CONT INST	
	Continuous "a" contactor input
552 CONT (NOT	
	Instantaneous (200 msec or more) "a" contac- tor input
SS2	

NOTE) When the continuous input is used in the individual mode, the indoor unit may stop operation by the remote controller during operation command (starts with operation command contactor of host computer monitor panel "close"). To restart the unit, "open" the operation command contactor once and "close" the contactor again.

GENERAL PRECAUTIONS

- All wiring and locally supplied parts and materials shall satisfy the standards of the applicable
- country and region.Only use copper wires for wiring.
- The electrical wiring work should be carried out by an authorized contractor.
- Install the switches and fuses shown below in the power supply lines.

Control Systems

WIRING TO INDOOR UNIT

Install wiring as shown below, from terminals (F1, F2) for centralized control line of the parallel interface to terminals (F1, F2) of the indoor unit. (Since there is no polarity, F1 and F2 may be reversed.)

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- NOTE) 1. For wiring to the indoor unit of the centralized line (F1, F2), install the wiring to either one of the indoor units in the same group (may be wired to the indoor unit to which the remote controller is not connected directly). If, however, the data calculate unit is used with the indoor unit, install wiring to all of
 - the indoor units. 2. For transmission wiring between indoor units, use 0.75 to 1.25 mm² shield wire (2 wire), and ground the shield part as shown above. (overall length of 1000 meters)

EXAMPLES OF CENTRALIZED LINE WIRING

2. For branching more than 3 control wirings from the same terminal board, use a relay terminal board (field supplied).

(B0209)

ON/OFF OPERATION INPUT WIRING

(1) For voltage input of instantaneous "a" contactor from host computer monitor panel:

NOTE) 1. Necessary input current is about 10mA per contactor. For relay contactor, use contactor for micro current.

- 2. The number of the terminal board corresponds to the group number.
- (Example) Connect the contactor controlling the indoor unit group No. 1-08 to the input terminal No. 08.
- 3. For ON/OFF command mode, "close" the contactor for 200 msec or longer. 4. Recommended power supply for external wiring:
- Sheathed vinyl cord or cable of 0.75-2mm².

 - Other: Wiring length should be 150 meters or less and separated from the power line to prevent malfunction.

(2) For voltage input of continuous "a" contactor from host computer monitor panel:

FORCED OFF TERMINAL

... 16–24V

- NOTE) 1. Necessary input current is about 10mA per contactor.
 - For relay contactor, use contactor for micro current.
 - 2. The number of the terminal board corresponds to the group number. (Example) Connect the contactor controlling the indoor unit group No. 1-08 to the input terminal No. 08.
 - 3. Recommended power supply for external wiring:
 - Sheathed vinyl cord or cable of 0.75-2mm².
 - Other: Wiring length should be 150 meters or less and separated from the power line to prevent malfunction.

③ For non-voltage input of instantaneous "a" contactor from host computer monitor panel:

ON TERMINAL

OFF TERMINAL 0 00

FORCED OFF TERMINAL

(B0210)

2

29.1 DPF201A51

NOTE) 1. Necessary input current is about 10mA per contactor.

- For relay contactor, use contactor for micro current.
- 2. The number of the terminal board corresponds to the group number.
 - (Example) Connect the contactor controlling the indoor unit group No. 1–08 to the input terminal No. 08.
- For ON/OFF command mode, "close" the contactor for 200 msec or longer.
 Recommended power supply for external wiring:
- Sheathed vinyl cord or cable of 0.75–2mm².
 - Other: Wiring length should be 150 meters or less and separated from the power line to prevent malfunction.
- ④ For non-voltage input of continuous "a" contactor from host computer monitor panel:

ON TERMINAL	OFF TERMINAL

FORCED OFF TERMINAL

- NOTE) 1. Necessary input current is about 10mA per contactor.
 - For relay contactor, use contactor for micro current.
 - The number of the terminal board corresponds to the group number. (Example) Connect the contactor controlling the indoor unit group No. 1–08 to
 - the input terminal No. 08.
 - Recommended power supply for external wiring: Sheathed vinyl cord or cable of 0.75–2mm².
 - Other: Wiring length should be 150 meters or less and separated from the power line to prevent malfunction.

OPERATION MONITOR OUTPUT WIRING

For indoor unit ON "Close" the contactor. For indoor unit OFF "Open" the contactor.

Internal circuit

С

- NOTE) 1. When using an external power supply of 1~100-240V and separate from the input wiring.
 - Rating of output relay contactor in this kit is 3A maximum (resistance load). Minimum applicable load is --- 12V/10 mA.

For (L) section, connect a general load which satisfies the specification of the output relay contactor.

- NOTE) 1. When using an external power supply of 1~100-240V and separate from the input wiring.
 - Rating of output relay contactor in this kit is 3A maximum (resistance load). Minimum applicable load is ... 12V/10 mA.
 For (1) section, connect a general load which activities the appeification of the output section.

For (L) section, connect a general load which satisfies the specification of the output relay contactor.

NOTE)

Do not connect the power supply line (1~200–240V) to the terminal board for centralized control and the terminal board for input.

If connected by mistake, breakdown and burning of this kit and electronic parts of the indoor unit may result, which is extremely dangerous.

Check the wiring before turning on the power switch.

7 SETTING OF GROUP NO. FOR CENTRALIZED CONTROL

Set the group No. of each group of indoor units using the remote controller. (For the indoor unit without the remote controller, connect the remote controller to the indoor unit when setting the group No., and remove the remote controller after setting.)

(B0212)

CONFIRMATION OF OPERATION 8

Before the test operation, turn on the power switches of the indoor and outdoor units and the parallel interface and depress the ON/OFF button.

Flashing of the operation lamp of the remote controller indicates malfunction of the indoor unit of that group.

Lighting of the malfunction LED of the parallel interface indicates a faulty setting of the centralized equipment.

Refer to this manual and the installation manuals of related equipment and correct any abnormalities.

- NOTE When power is supplied, the MALFUNCTION LED of the parallel interface comes on for about 30 seconds for the initial setting, not an abnormal condition.
 - For test operations of indoor and outdoor units, refer to the installation manual attached with the unit.
 - If the input from the host computer monitor panel is not executed 2 minutes or more after the power is supplied to this kit, check the following.
 - · Check for correct setting of the connector for setting master controller.
 - · Check that the group No. for centralized control of the indoor unit has been set.
 - · Except when the data calculate unit is used, check that the centralized line is not connected to two or more indoor units in the same group.

(B0213)

29.2 DPF201A52 — Temperature Measurement Units

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System Configuration Diagram

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First, carry out installation and make initial settings for the basic unit. Then, with the basic unit's power turned off, install the kit on the basic unit according to the following procedure.

Room temperature Unit [DPF201A52]

(1) Remove the optional mask plate on the left side of the basic unit, and fasten the kit with screws.

C: 2PA53243

- 2 Plug the basic unit's connector into the kit.
 - Loosen the knurling screw on the front right side of the basic unit and open the upper cover towards yourself as shown in the figure below.
 - Remove the clamp binding the three connector leads, and firmly plug the connectors into the three places shown in the figure below.
 - Close the basic unit's upper cover.

Room temperature Unit [DPF201A52]

Use the method described below to select the indoor unit group No. for which room temperature measuring is to be carried out. Set exactly four of sixteen indoor unit No. selector switches to ON. (All set to OFF for factory set)

- (NOTES) The numbers of the switches set to ON correspond to analog output of terminals A through D of the terminal board for room temperature measuring out
 - put, in order starting from the smallest number.
 - If more than four switches are set to ON, the smallest number switch set to ON to the fourth are effective.

Example of switch settings and corresponding output terminals

Control Systems

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29.2 DPF201A52

C: 2PA53243

OH08-1

29.3 DPF201A53 — Temperature Setting Units

3.2

Input voltage (...)

16

1.6

1.0°C units

C: 2PA53243

Control Systems

System Configuration Diagram

OH08-1

Room temperature set Unit [DPF201A53]

(1) Remove the optional mask plate on the right side of the basic unit, and fasten the kit with screws.

C: 2PA53243

2 Plug the basic unit's connector into the kit.

- Loosen the knurling screw on the front right side of the basic unit and open the upper cover towards yourself as shown in the figure below.
- Remove the clamp binding the 2 connector leads, and firmly plug the connectors into the 2 places shown in the figure below.
- Close the basic unit's upper cover.

Room temperature set Unit [DPF201A53]

There are no initial setting parameters.

5 ELECTRIC WIRING

Room temperature set Unit [DPF201A53]

