Panasonic®

P-AIMS

Air Conditioning Intelligent Management System

Système intelligent de gestion de la climatisation

Klimaanlagen Intelligentes Verteilungssystem

Sistema di gestione intelligente per impianti di condizionamento

Sistema de Gestão Inteligente de Ar Condicionado

Sistema de gestión inteligente del aire acondicionado

Operation Manual

Manuel d'instructions

Betriebsanleitung

Manuale d'uso

Manual de Operação

Manual de funcionamiento

CZ-CSWKC2

Basic Software

Logiciel de base

Basis-Software

Software di base

Software básico

Software básico

EN

FR

DE

IT

PT

ES

- After reading it, store it, in a convenient location for easy reference.
- Après l'avoir lu, rangez-le en lieu sûr afin de pouvoir vous y reporter facilement.
- Bewahren Sie sie danach an einem Ort auf, an dem Sie schnell auf sie zugreifen können.
- Dopo la lettura, conservarlo in una posizione comoda per farvi riferimento facilmente.
- Depois de o ler, guarde-o num local conveniente para fácil consulta.
- Tras leerlo, almacénelo en un lugar accesible para facilitar su consulta.

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Operation Manual

Panasonic

Air Conditioning
Intelligent Management System

CZ-CSWKC2

Basic Software

P-AIMS

Thank you for purchasing our monitoring and control system.
Before using the system, be sure to read this manual carefully. After reading it, store it, in a convenient location for easy reference.

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Operation Manual

Air Conditioning
Intelligent Management System

CZ-CSWKC2

Basic Software

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Note

■ Precautions on Using This Product

★IMPORTANT★

- Before you can use the P-AIMS system, you need to first perform a work procedure called "license certification."
  Please perform the license certification referring to "6.License certification".
- Duplication of all or part of this software and documentation without the express consent of the holder of the rights to the above, and transfer of the software to another party, are prohibited by law.
- This software and manual are not to be reproduced, in whole or in part, without permission.
- In principle, each set of this software is purchased for use on a single computer.
- Please note that we bear no responsibility for any effects resulting from the use of this software and manual.
  Panasonic will not be liable for any claim based on errors in calculations of distribution ratios and utility usage caused by faults in this equipment or software.
- The specifications of this software, and the content of this manual, are subject to change without notice, for the sake of improvement.
- This software is used to calculate distribution ratios and charges according to the load ratios estimated for each indoor unit.
  It is not based on the Measurement Act, so it cannot be used for public transactions and similar purposes.
- The content of this manual is limited to explanation of how to use this software.
  It does not cover the usage methods for the operated machinery and optional features, or for the OS etc., so refer also to the relevant manuals for those elements.
- The screen image examples presented in this manual are intended to illustrate the explanation of layouts, and do not represent actual operating conditions. The tenant names displayed are also fictional.
- Displays and operations may differ from the examples in this manual, depending on versions of Excel and the OS used.
- Refer to "Please Read Before Use" for the warranty terms for this software.
- Panasonic will not be liable for any violation of the rights of any third party stemming from use of information in this manual, or for violation of other rights.
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1. Features of the System

1-1. Introduction

This Air Conditioning Intelligent Management System (P-AIMS System) is Panasonic Corporation's personal computer (PC) software for the centralized control of air conditioning equipment.
Compatible equipment models are:
Electric package air conditioners (PAC)
Gas heat pump (GHP) air conditioners

1-2. System Features

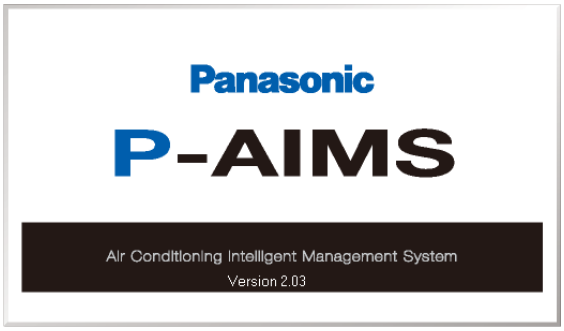
·Connectable units	1,024 indoor 960 outdoor
·Operation functions	Start/ stop, temperature settings, operation mode switching, airflow direction settings, etc.
·Operation monitor	Layout display (requires layout display software, sold separately) Unified monitoring of operation status (start/stop, operation mode, alarm) Alarm log display, status change history display Filter cleaning signs, engine oil check sign
·Program timer	20 daily times can be set for each group (30 types)
·Air conditioning energy distribution.....	Cumulative operation time for each indoor unit, and total operation count Calculation of distribution ratios and usage quantities (m^3, kWh) for air conditioning consumption of gas and electricity by each indoor unit and each tenant Time zone distribution function (within hours, after hours, special days) Processes performed on cut-off days can be changed at any time (within a year) (separate charge calculation software is required)

2. Startup and exit

2-1. Startup

1. Double click on the P-AIMS shortcut on the desktop.

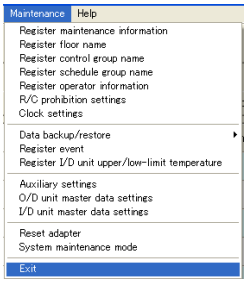
The following window appears:



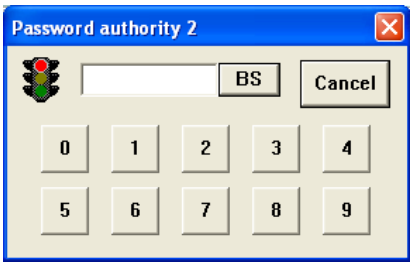
The system starts up and the Status/Operation screen is displayed.

2-2. Exit

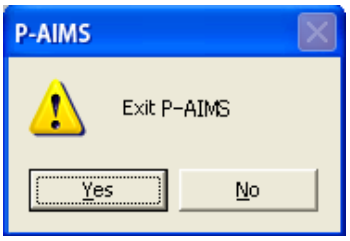
1. From the Menu bar, select “Maintenance” - “Exit”.



2. The Password Input screen is displayed. Input the password.

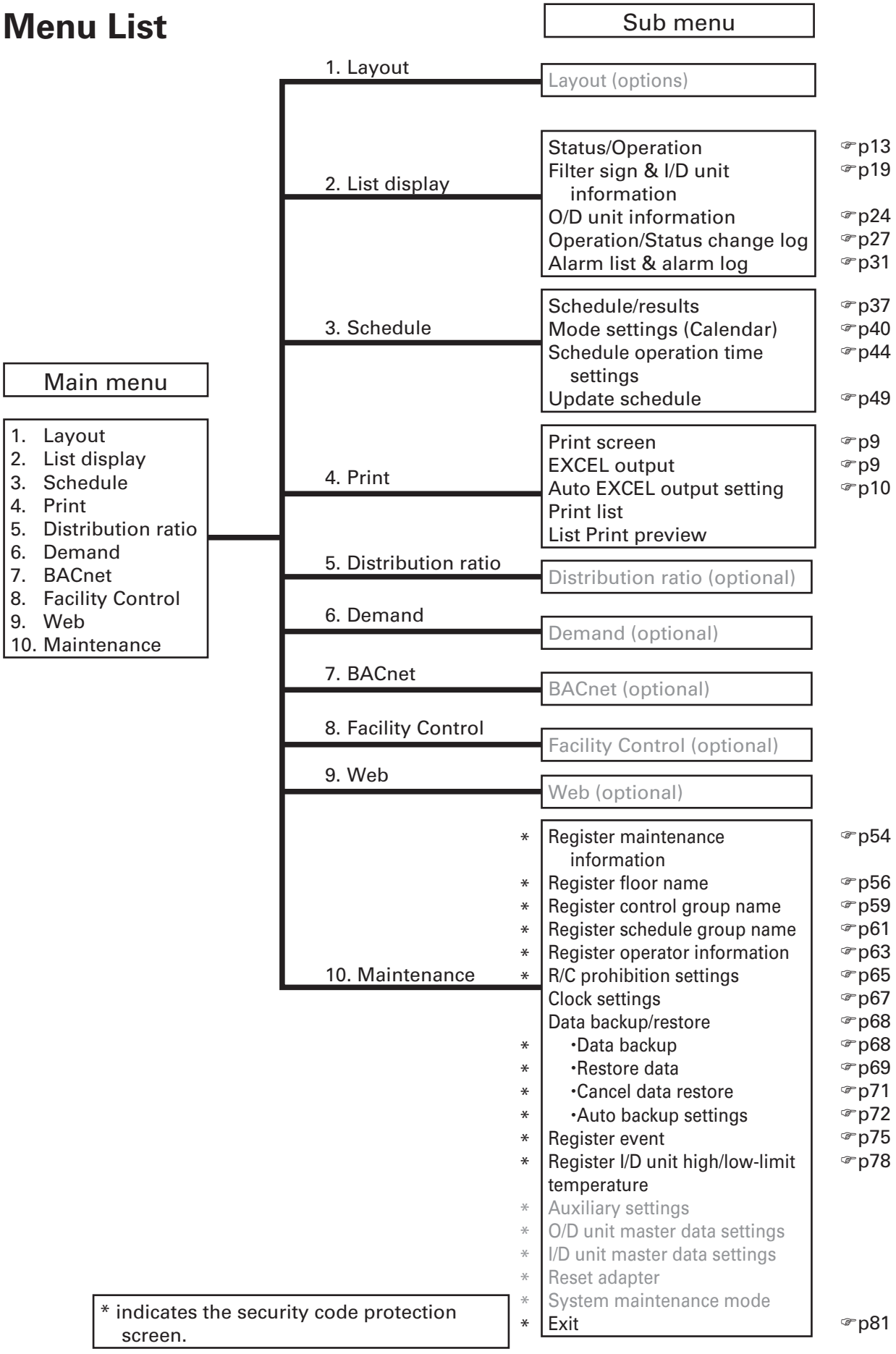


3. The System Exit screen is displayed. Click on the Yes button.



3. Quick Reference

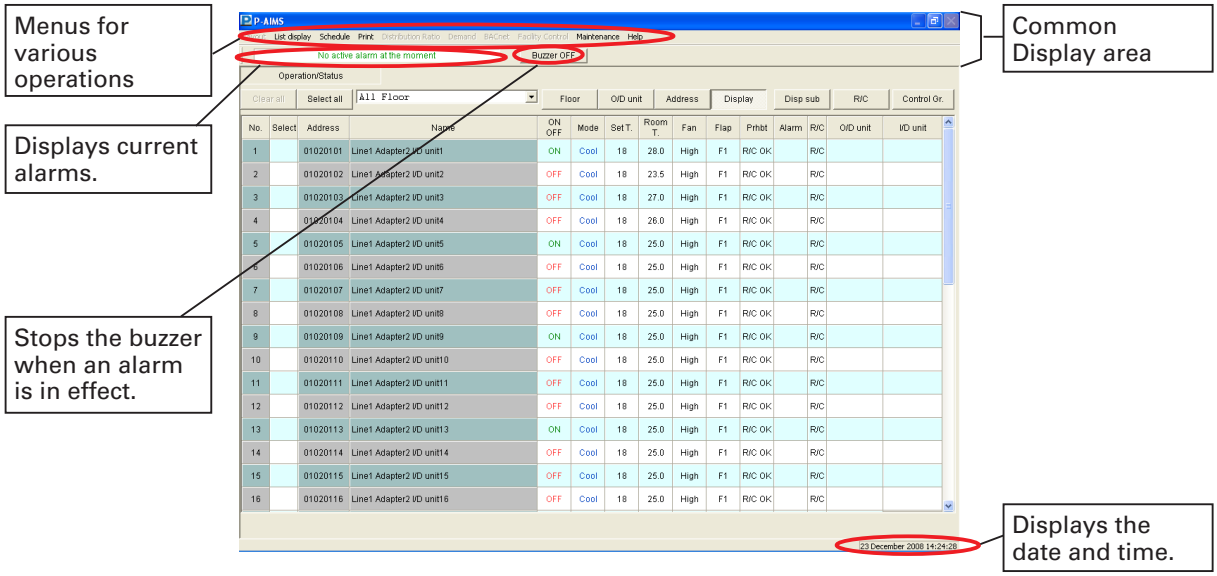
Menu List



4. Using the System

4-1. Common Items

The common display area is at the top of the screen, and is always displayed, regardless of which operation screen is used. Any current alarms and the date and time are also displayed. The menu bar can be used to move between screens.



4-1-1. The Menu Bar

- Layout ..... Display the layout. (Optional)

- List display..... Display the various list screens.
  - Status/Operation .....Monitor air conditioner status and alarms, and perform start and stop operations etc.
  - Filter sign & I/D unit information.....Check duration and times of indoor unit operation and reset filter alarms.
  - O/D unit information .....Check duration and times of outdoor unit operation and make power demand settings.
  - Operation/Status change log .....Display a log of air conditioner starts and stops, and change operation status.
  - Alarm list & alarm log.....Display a log of air conditioner alarms and restoration status.

- Schedule ..... Display the Schedule setting screen.
  - Schedule/results ..... Monitor air conditioner status and alarms, and perform start and stop operations etc.
  - Mode settings (Calendar) ..... Set the scheduled operation mode to calendar.
  - Schedule operation time settings ..... Set the scheduled operation times for each mode.
  - Update schedule ..... Check and change scheduled operating times for the same day, next day and day after that.

- Print ..... Print data from the screen.
  - Print screen ..... Print the displayed screen.
  - EXCEL output ..... Export the print image to a CSV file that can be loaded by Microsoft Excel.
  - Auto EXCEL output setting ..... Make settings for automatically outputting the specified data to CSV files that can be loaded by Microsoft Excel.
  - Print list ..... Print the distribution table. (Optional)
  - List print preview ..... Display and print the preview screen for the distribution table. (Optional)

- Distribution ratio ..... Calculate distribution. (Optional)

- Demand ..... Control demand. (Optional)

- BACnet ..... Perform BACnet communications. (Optional)

- Facility Control ..... Control devices other than the air conditioners. (Optional)

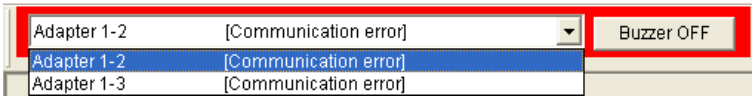
- Web ..... Provide a web browser. (Optional)
- Maintenance ..... Display the Maintenance screen.
  - Register maintenance information ..... Register and cancel indoor unit maintenance.
  - Register floor name ..... Register floor names.
  - Register control group name ..... Register control group names.
  - Register schedule group name ..... Register schedule group names.
  - Register operator information ..... Register names of operators responsible for checking alarms.
  - R/C prohibition settings ..... Set central control patterns for use with the remote control unit.
  - Clock settings ..... Set the system time.
  - Data backup/restore ..... Backup and restore data.
    - Data backup ..... Make backups of data.
    - Restore data ..... Restore back-up data.
    - Cancel data restore ..... Delete data backups.
    - Auto backup settings ..... Set how backups are made automatically.

Register event.....Register conditions for linked control.
Register I/D unit high/low-limit temperature.....Register conditions for the upper and lower temperature limits for the indoor unit
Auxiliary settings.....Make adapter connection line settings, system password settings, etc.
O/D unit master data settings.....Register outdoor units to monitor.
I/D unit master data settings.....Register indoor units to monitor.
Reset adapter .....Specify the connection line and reset the adapter.
System maintenance mode .....Display the system maintenance mode.
Exit.....Exit the system.

· Help ..... Display the Help screen.
Basic software manual.....Display the basic software manual.
Layout display software manual .....Display the layout display software manual. (Optional)
Distribution ratio software manual.....Display the Accounting software manual. (Optional)
Demand software manual .....Display the demand control software manual. (Optional)
BACnet software manual...Display the BACnet control software manual. (Optional)
Facility control software manual.....Display the facility control software manual. (Optional)
WEB software manual.....Display the WEB software manual. (Optional)
Select Language .....The selected language is displayed.
Version information .....Display version information.

4-2. Warning information display list box

When an alarm is issued in connection with a monitored device, the name of the alarm device is displayed in the list box in the upper left of the screen, where it flickers in red. Click on the ▼ button on the right side of the list box to display the list of current alarms. If there are many alarms in effect, an additional scroll bar is displayed on the right side of the list display screen. Devices which have been restored from their alarms are automatically removed from the list. A buzzer also sounds when an alarm occurs, but it can be stopped by clicking on the Buzzer OFF button.

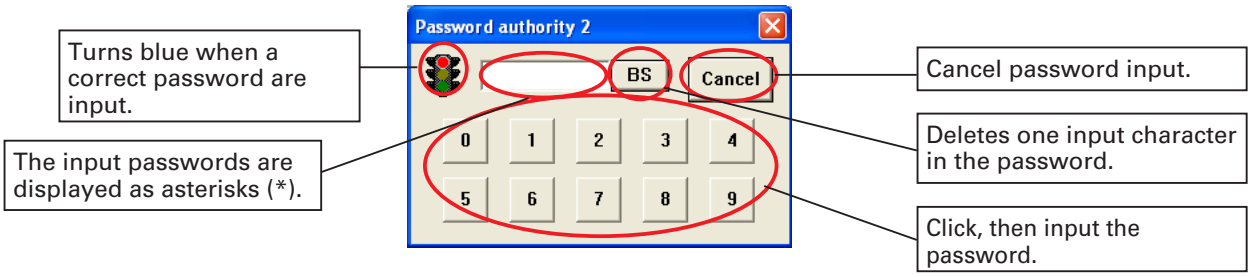


4-3. Calendar

Click on the ▼ button on the right side of the date display column, when specifying time periods on any screen, to display the calendar screen.
Click on the calendar to select the dates of displayed history items.

4-4. Password

This password screen is displayed if users are restricted, in order to restrict access to screens such as the Maintenance screen which are not used by general users, and to prevent operation errors. The password level required for the current input is displayed at the top of the Password screen. Input a password of a level that meets the level requirement.
Click on the numerical buttons at the bottom to input the correct password. When a correct password is input, the restriction is lifted and the displays and devices on the screen become operable. Restrictions are also lifted if the input password is of a level surpassing that which is displayed.



* There are three levels of password, as follows:
Level 1: It is possible to operate and change the names of password-protected devices.
Level 2: Operations such as system settings and shutdown are possible.
Level 3: All operations, including system maintenance, are possible.

4-5. Procedure

If [Procedure] is displayed, the procedure for accessing that item is presented.
For example,

[Procedure]
On the menu bar, select “Print” – “Auto EXCEL output setting”.
(Password level 1)

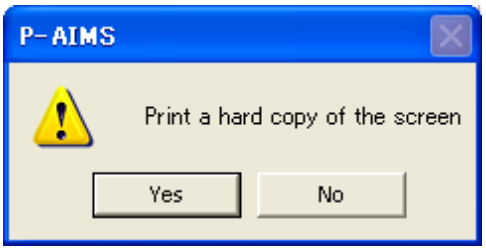
when the above is displayed, clicking on Print on the main menu displays the sub-menu.
Click on “Auto EXCEL output setting” in the sub-menu to switch the screen display to that item.
If there is a <Password Level 1> display, the Password screen (Level 1) is displayed, so the screen switches after a suitable password is input.

4-6. Print

4-6-1. Print screen

[Procedure]
On the menu bar, select “Print” – “Print screen”.

Print the currently-displayed screen.
* This menu cannot be selected on screens that cannot be printed.

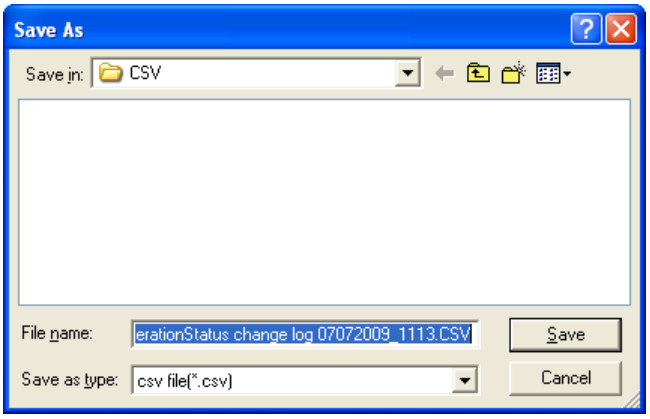


Click on the [Yes] button to print the screen.
Click on the [No] button to exit without printing.

4-6-2. Excel output

[Procedure]
On the menu bar, select “Print” – “Excel output”.

Currently displayed data can be saved as a file in CSV format, which can be displayed by Microsoft Excel and similar applications. The data currently displayed on the screen becomes the file, so make sure the data to place in the file is displayed on the screen.



The file name is assigned automatically.

OperationStatus change log 07072009 _ 1113.CSV
Name DDMMYYYY hhmm *This file is for when the “Operation/ Status change log” is used.

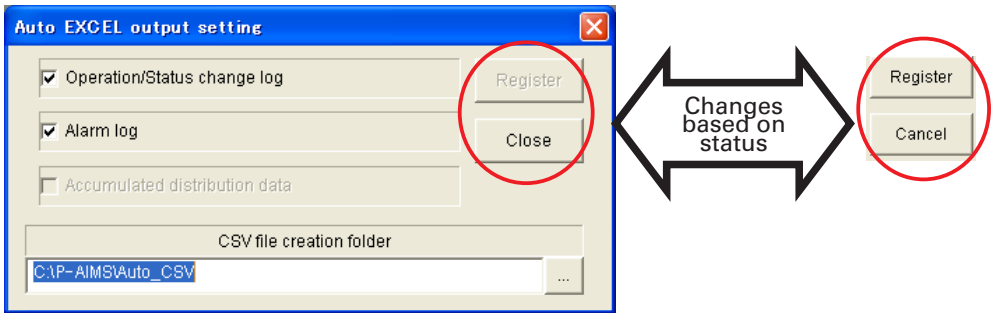
Click on the [Save] button to save the file to the folder specified under “Save in:”.
Click on the [Cancel] button to exit without saving.

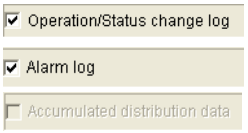
* Unless a different save folder has been specified, the saved file is saved to the folder named Auto_CSV in the folder to which the P-AIMS system was installed (e.g. C:\P-AIMS).

4-6-3. Settings for automatic Excel output

[Procedure]
On the menu bar, select “Print” – “Auto EXCEL output setting”.
(Password level 1)

“Operation/Status change log” and “Alarm log” can be saved automatically, every day, in CSV format, which can be displayed on Microsoft Excel. The timing of data saving is past midnight, so the data up to the previous day can be checked.



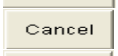


:Specify the file to save the Operation/Status change log to.

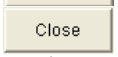
:Specify the file to save the Alarm log to.

:Specify the file to save Distribution ratio-related data (Optional) to. This cannot be specified with the basic software.

:Registers the set content.



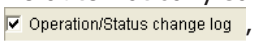
:Reverts to the previously registered content.



:Closes the window.

:Changes the backup creation folder.

4-6-3-1. Settings for saving the Operation/status log

To automatically save the “Operation/Status change log” file, click on 

, and add the check mark. Saving is enabled with the check mark is added.

Click again to remove the check mark.

The file name is assigned automatically. (Files are saved in one-day units).

OperationStatus change log 07072009 _ 1.CSV
Name DDMMYYYY serial number

(*The serial number increments to “2” when there are over 60,000 files with the serial number “1”. Up to 400,000 files can be saved per day).

4-6-3-2. Settings for saving the alarm log

To automatically save the alarm log file, click on

, and add the check mark. Saving is enabled with the check mark is added. Click again to remove the check mark.

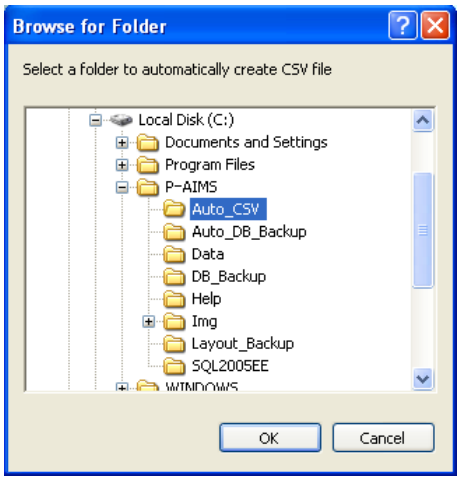
The file name is assigned automatically. (Files are saved in one-month units).

Alarm log 082006.CSV

Name MMYYYY

4-6-3-3. Changing the folder in which CSV files are created for automatic Excel output

Click on the ··· button to display the Browse Folder screen, which can be used to change the folder in which files are saved.



Click on the OK button to apply the selected save destination and return to the Auto backup settings screen.

Click on the Cancel button to return to the Auto backup settings screen without doing anything.

4-6-3-4. Registering settings

Click on the Register button to register the set content.

4-6-3-5. Deleting settings

Click on the Cancel button to delete the set content and revert to the previously registered content.

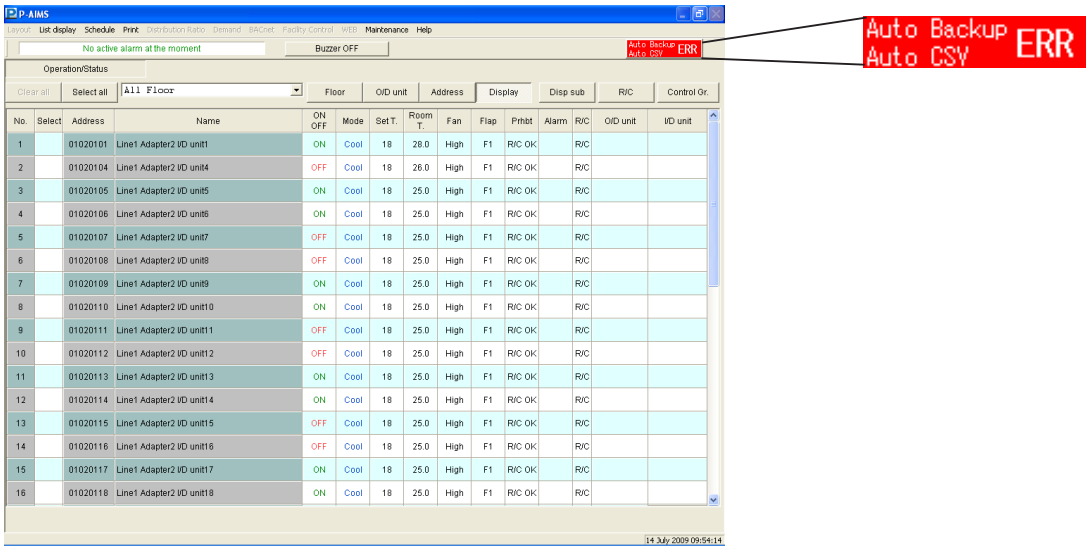
4-6-3-6. Deleting

Click on the Close button to close the Auto backup settings screen.

* The Cancel and Close buttons change to the Cancel button when settings are made.
  Clicking on the Register or Cancel buttons changes them to the Close button.
* Unless a different save folder has been specified, automatic backup files are saved to the folder named Auto_DB_Backup in the folder where the P-AIMS system was installed (e.g. C:\P-AIMS).

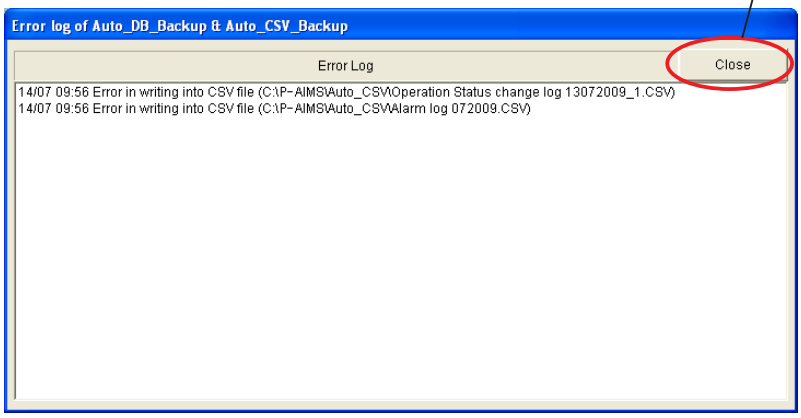
4-6-3-7. Troubleshooting if saving does not work

If an error occurs while the backup file is being saved, a red button marked “Auto Backup, Auto CSV ERR” is displayed in the upper right of the screen.



Click on the Auto Backup Auto CSV ERR button to display the “Error log of Auto_DB_Backup & Auto_CSV_Backup” screen and the content of the error.

The Auto Backup Auto CSV ERR button disappears at the same time as the error is closed.

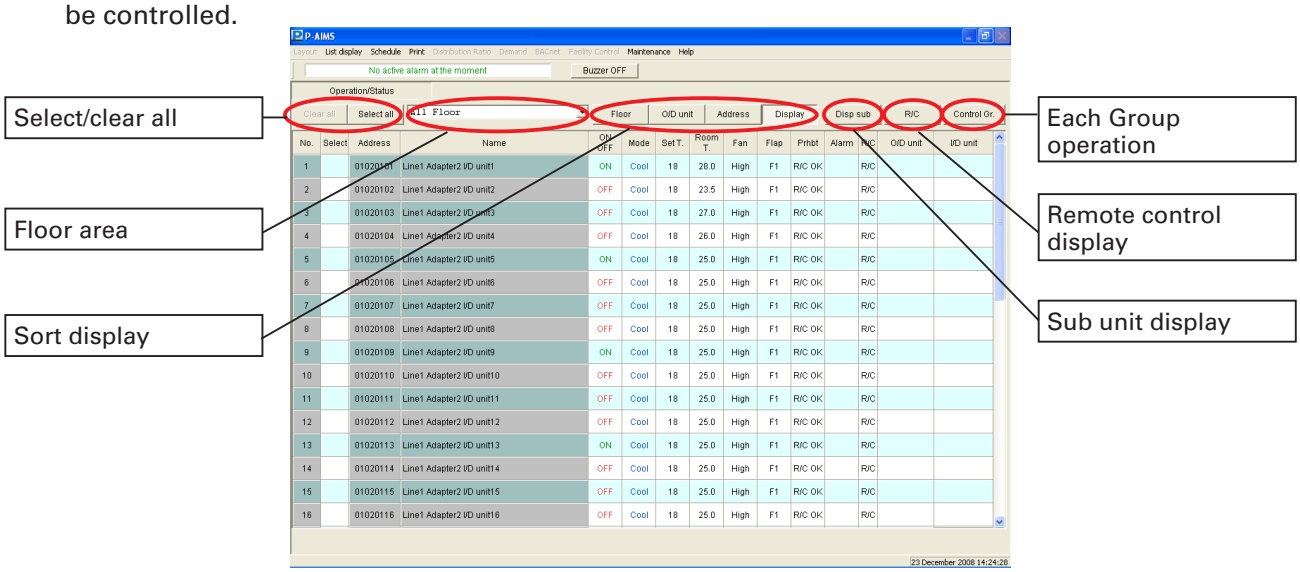


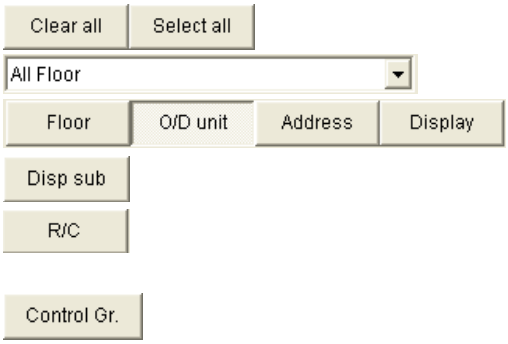
* If this button is displayed, an error may have occurred on the storage disk. Refer to the instruction manual for the device concerned and take appropriate action.

4-7. Status/Operation

[Procedure]
On the menu bar, select “List display” – “Status/Operation”.

Monitor the status of indoor units here. The operation, mode, set temperatures, room temperatures, fan speeds, flaps, central control, alarms, presence of remote control units, outdoor units and indoor units can be monitored. Devices can also be controlled to start and stop.
Indoor units can be monitored and controlled in floor and area units, and each control group can be controlled.





:Use to clear all and select all.
:Use to select floor areas.
:Use to select the display order.
:Sub units are also displayed.
:Use remote control units for individual control to stop and start indoor units individually.
:Use group control remote control units to stop and start control group units.

Key

· Select :Selects the indoor unit to control.
Click to add a check mark.
· Address :Display the address numbers of indoor units.
· Name :Displays the names of the indoor units.
Normal: black, sub unit: blue, W/O connestion: red, maintenance: gray
· ON/OFF :Monitors the operation status of indoor units.
ON: Green, OFF: Red
· Mode :Displays the operation modes of indoor units.
A/Cool, A/Heat: Green, Cool: Blue, Heat: Red, Fan: Gray, Dry: Light blue

· Set T. :Displays the set temperature. The range of temperatures that can be set varies, depending on the connected air conditioner model and the operation mode.
· Room T. :Displays room temperatures.
· Fan :Displays fan speeds.
Automatic (automatic fan speed), High, Mid., Low (Displayed as - - if the model concerned cannot display this information.)
· Flap :Displays the directions of flaps.
Swing, F1 - F5 (warm, fan: F1 - F5, for cooling: F1 - F3)
Displayed as - - if the model concerned cannot display this information.
· Prhbt :Central control (local control prohibited)
Individual (no prohibition), prohibit 1=prohibit 7 (Settings can be made for various types of central control (Prohibition))
· Alarm :Displays alarm codes if an alarm has been issued by an indoor unit.
Displays Maintenance if "Register maintenance information" applies.
· R/C :Displays "Yes" for indoor units that have remote control units
· O/D unit :Displays outdoor unit codes.
· I/D unit :Displays indoor unit codes.

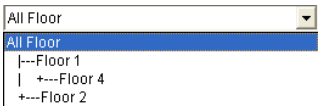
* If it is not possible to communicate with the adapter, or if the model used cannot display the content, the column will display "- -".
* Use the Maintenance screens to assign indoor unit points to the screen.

9		01020109	Line1 Adapter2 I/D unit9	ON	A/Cool	25	25.0	Auto	Swing	R/C OK
10		01020110	Line1 Adapter2 I/D unit10	- -	- -	- -	- -	- -	- -	- -

The names of indoor units which are unconnected are displayed in red. Their operating status cannot be checked.

4-7-1. Display method

4-7-1-1. Selecting displayed floor and area



First, select the floor and area.

If the floor and area is "All Floor", all registered indoor units are displayed. Click on the button on the right edge of the floor selection list to display a list of registered floors and areas. From the list, select the floor or area to monitor.

A list of indoor units registered within that floor and area is displayed.

4-7-1-2. Displaying alarms

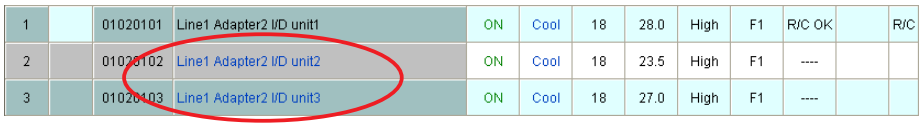
When an alarm is issued for an indoor unit, the error code is displayed in the Alarm column.
Nothing is displayed if there are no current alarms.

Name	ON OFF	Mode	SetT	RoomT	Fan	Flap	Prhbt	Alarm	R/C
Line1 Adapter2 I/D unit1	ON	A/Cool	25	28.0	Mid.	F5	R/C OK		R/C
Line1 Adapter2 I/D unit2	OFF	A/Heat	25	25.0	Auto	Swing	R/C OK	A01	R/C

* The alarm display is automatically removed if the alarm has been restored.

4-7-1-3. Displaying sub units

Disp sub button is clicked, it changes to the pressed state (Disp sub) and sub units are also displayed. Click on the button again and it returns to its original raised state (Disp sub), so sub units are no longer displayed. Stop and start operations cannot be performed on sub units.



The names of sub units are displayed in pale blue.

* Setup and operation of sub-units is linked to the main unit, so starting/stopping them or changing their settings is impossible.
* To check individual alarms from sub-units, it is necessary to display the sub-unit.

4-7-1-4. Sorting lists

Click on the Sort button to change the display order of a list. The currently pressed button is the one which determines the sort order.

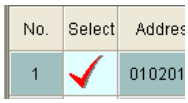
Click on the buttons to change the list orders. If other buttons are pressed, the one that was clicked last is effective. The illustration above shows the list displayed in the indoor unit master order.

Floor :Display is in order of floor name registration.
O/D unit :Display is in order of outdoor unit addresses, from the most recent.
Address :Display is in order of addresses, from the most recent.
Display :Display is in order of most recent registrations to the indoor unit master.

* Any button can be selected. It is not possible to select multiple buttons at the same time.

4-7-2. Start and stop control method

4-7-2-1. Indoor unit selection method



To start or stop a unit, click on the name of the indoor unit to control. The selected locations have ✓ check marks in the selection column.

Click again on the same location to remove the check mark, canceling the selection.

To select all indoor units, click on the Select all button in the upper left of the screen.

To cancel selections of all indoor units, click on the Select Clear button in the upper left of the screen. Select Clear This button cannot be used if nothing has been selected.

It is possible to select or deselect multiple indoor units by dragging around them with the mouse.

Unconnected units and sub units cannot be selected.

* After selecting the indoor unit, transmit the settings to the actual indoor unit on the Remote Control screen.

4-7-2-2. Start and stop operation method (for each indoor unit)

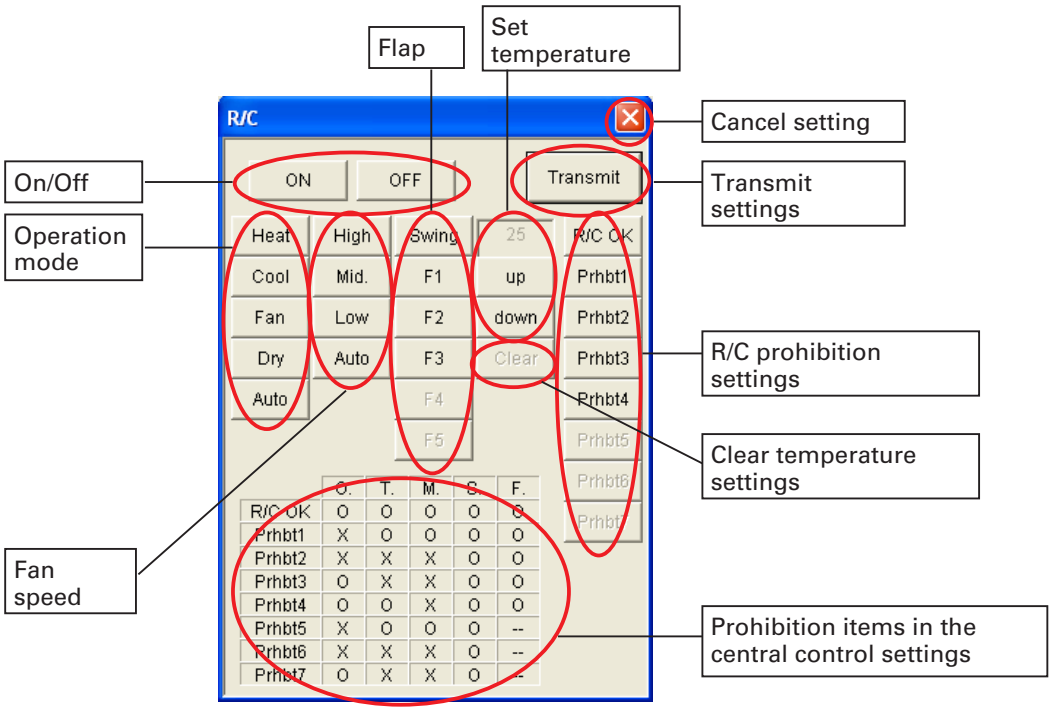
Click on the R/C button in the upper right of the screen when an indoor unit is selected to display the remote control unit screen. The Remote Control screen can be used to change operation, mode, temperature setting, fan speed, flap and prohibition settings. Click on the set button, then on the Transmit button to send the setting content to the unit.

Click on the button to avoid sending the settings. The Remote Control screen closes.

* Buttons for functions that cannot be set are grayed out and cannot be selected.
* Indoor units can be selected even after the Remote Control screen has been displayed.

An error message is displayed if the user clicks on the Transmit button when no indoor unit is selected.

Select the indoor unit before clicking on the Transmit button.



4-7-2-2-1. On/Off

When either On or Off is clicked, the selected button remains depressed. When one button is clicked on, the other reverts to its non-depressed state.

4-7-2-2-2. Mode switch

When any button is clicked, the selected button remains depressed. When any other mode button is clicked on, the previously selected button reverts to its non-depressed state.

* Some modes may be unavailable, depending on the type of indoor unit.
* Some older indoor units may be unable to provide fan operation when fan speed is set to automatic.

4-7-2-2-3. Fan speed switch

When any button is clicked, the selected button remains depressed.

When any other Fan speed button is clicked on, the previously selected button reverts to its non-depressed state.

Auto fan speed cannot be selected in fan operation.

*For some indoor unit models, it may be impossible to select “Auto” (Auto fan speed).

4-7-2-2-4. Swing/Flap

When any button is clicked, the selected button remains depressed.

When any other Flap button is clicked on, the previously selected button reverts to its non-depressed state.

*Some flap settings are unavailable, depending on the selected operation mode.

4-7-2-2-5. Prohibition switch

When any button is clicked, the selected button remains depressed.

When any other prohibition mode button is clicked on, the previously selected button reverts to its non-depressed state.

Only those set under prohibition settings can be used.

R/C OK :Operation with the remote control unit is OK.

Prhbt 1 :The remote control unit cannot be used for switching On/Off.

Prhbt 2 :The remote control unit cannot be used for switching On/Off, temperature setting and operation mode switching.

Prhbt 3 :The remote control unit cannot be used for temperature setting and operation mode switching.

Prhbt 4 :The remote control unit cannot be used for operation mode switching.

Prhbt 5 :The remote control unit cannot be used for switching On/Off.

Prhbt 6 :The remote control unit cannot be used for switching On/Off, temperature setting and operation mode switching.

Prhbt 7 :The remote control unit cannot be used for temperature setting and operation mode switching.

* The functions for Prhbt 1–4 can be changed using the “Maintenance” – “R/C prohibition settings”.
* Prohibit 1–4 are for the CZ-CFUNC2.

4-7-2-2-6. Temperature setting

Click on the up and down buttons in the center right of the Remote Control screen to raise or lower the temperature displayed in the set temperature column.

Heat :16 - 26°C

Dry/Cool :18 - 30°C

is the available setting range. Temperature cannot be set in fan operation.

*Temperature setting ranges differ between indoor unit models.

* Temperature setting ranges can be changed using “Maintenance” – “Register I/D unit high/low-limit temperature”.

4-7-2-2-7. Transmit

Click on the Transmit button to transmit the set content to the indoor unit.

4-7-2-2-8. Deleting

Click on the button to stop transmission of the setting data to the indoor unit and close the Remote Control screen.

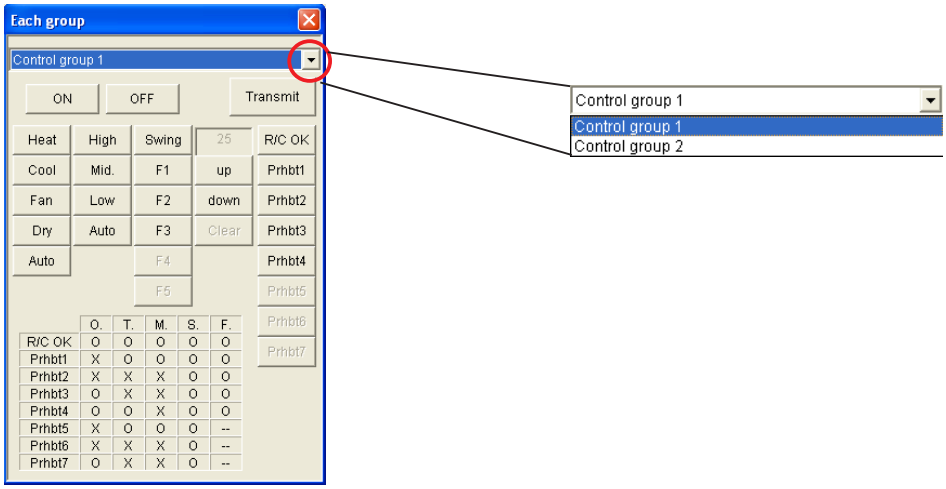
4-7-2-3. On and Off operation method (Each group)

Click on the Control Gr. button to display the Remote Control screen for Each Group operation.

The basic operations are the same as for the normal Remote Control screen (for individual indoor units), but a frame for selecting control groups is displayed on the top of the screen.

Select the control group to operate, then transmit the settings.

To change the control group, click on the button on the right of the control group. The registered control groups are displayed in the list.



Select by clicking on the group to control. Then, set the operation mode, fan speed and other items in the same way as for normal remote control unit operation, and click on the Transmit button. The settings are transmitted to all the indoor units in the registered group.

Click on the button to avoid sending the settings. The remote control screen closes.

* Use the “Maintenance” – “Register Control Group Name” screen to register control group names. * Use the “Maintenance” – “I/D unit master data” screen to assemble control groups. * It is not possible to select indoor units while the Each Group Setting screen is displayed. Also, if the Each Group Setting screen is displayed after an indoor unit has been selected, Each Group setting operation takes priority.

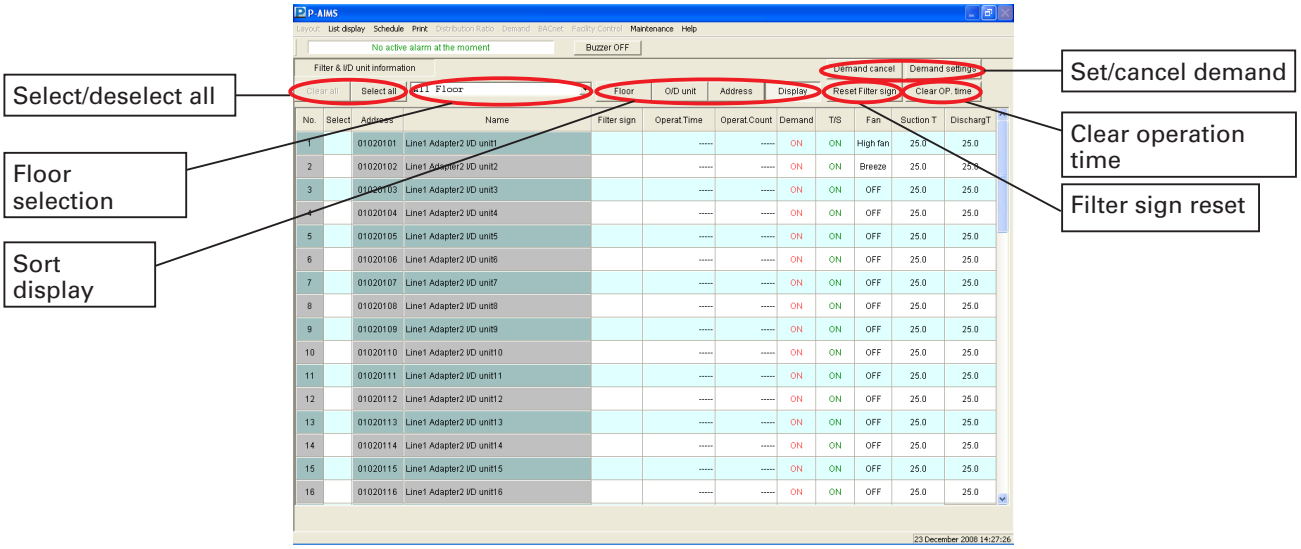
When settings are transmitted for individual indoor units or for groups, but no setting items are selected on the Remote Control screen, an error message is displayed when the Transmit button is clicked.

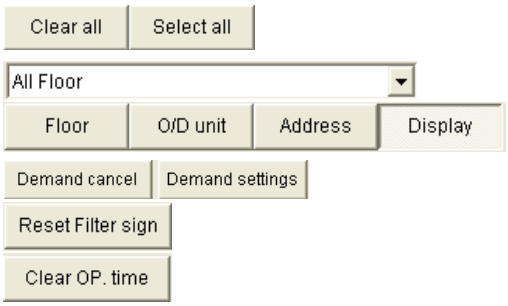
Make settings on the Remote Control screen before clicking on the Transmit button.

4-8. Filter/Indoor Unit Information

[Procedure]
On the menu bar, select “List display” – “Filter sign & I/D unit Information”.

The operation time, the operation count, thermometer and fan status, intake temperature and discharge temperature can be checked for each indoor unit. Devices which are showing filter signs are also shown.Filter signs can be cleared, and indoor unit demand can be set or cancelled, from this screen.





:Use to clear all and select all.

:Use to select floor areas.

:Use to select the display order.

:Use to make and cancel demand settings.

:Use to clear filter signs.

:Use to reset the operation times of indoor units.

Key

· Select :Selects the indoor unit to control.
Click to add a check mark.

· Address :Displays the addresses of alarms.

· Name :Displays the names of devices which have issued alarms.
Normal: black, sub unit: blue, W/O connection: red, maintenance: gray

· Filter sign :Displays alarms related to filter replacement times.
“Filter sign” is displayed in red when it is time to replace a filter.

· Operat. Time :Displays the operation times of indoor units. (When the distribution ratio option is installed)

· Operat. Count :Displays the number of times indoor units have operated. (When the distribution ratio option is installed)

· Demand :Displays the demand status of indoor units.

· T/S :Displays the thermostat status of indoor units.

· Fan :Displays the fan status of indoor units.
· Suction T :Displays the temperature of air taken into the indoor unit.
· Discharg T :Displays the temperature of air discharged from the indoor unit.

> * If it is not possible to communicate with the adapter, or if the model used cannot display the content, the columns will display "----".

The names of sub units are displayed in pale blue.

1		01020101	Line1 Adapter2 I/D unit1		- - - - -	- - - - -
2		01020102	Line1 Adapter2 I/D unit2		- - - - -	- - - - -
3		01020103	Line1 Adapter2 I/D unit3		- - - - -	- - - - -

If the optional Accounting software is installed, the current operation time and operation count are displayed for the indoor unit.

No.	Select	Address	Name	Filter sign	Operat.Time	Operat.Count
1		01020101	Line1 Adapter2 I/D unit1		806:21	250
2		01020102	Line1 Adapter2 I/D unit2		573:43	200
3		01020103	Line1 Adapter2 I/D unit3		380:10	150

If a filter sign has been issued, the text "Filter sign" will be displayed in red in the Filter Sign column.
Nothing is displayed if there are no current filter signs.

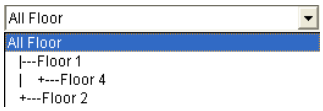
No.	Select	Address	Name	Filter sign	Operat.Time	Operat.Count
1		01020101	Line1 Adapter2 I/D unit1	Filter sign	806:21	250
2		01020102	Line1 Adapter2 I/D unit2		573:43	200
3		01020103	Line1 Adapter2 I/D unit3		380:10	150

Thermostat status (displayed when On), actual fan operation status, and intake and discharge temperatures are displayed for indoor units.

No.	Select	Address	Name	Demand	T/S	Fan	Suction T	DischargT
1		01020101	Line1 Adapter2 I/D unit1			High fan	25.0	25.0
2		01020102	Line1 Adapter2 I/D unit2	ON	ON	Breeze	25.0	25.0
3		01020103	Line1 Adapter2 I/D unit3		ON	OFF	25.0	25.0

4-8-1. Display method

4-8-1-1. Selecting displayed floor and area



If the floor and area is “All Floor”, all registered indoor units are displayed. Click on the button on the right edge of the floor selection list to display a list of registered floors and areas.From the list, select the floor or area to monitor. A list of indoor units registered within that floor and area is displayed.

4-8-1-2. Sorting lists

Click on one of the sort buttons to change the display order of a list. The currently pressed button is the one which determines the sort order.

Click on the buttons to change the list orders. If other buttons are pressed, the one that was clicked last is effective. The illustration above shows the list displayed in the indoor unit master order.

Floor :Display is in order of floor name registration.
O/D unit :Display is order of outdoor unit addresses, from the most recent.
Address :Display is order of addresses, from the most recent.
Display :Display is in order of most recent registrations to the indoor unit master.

* Any button can be selected. It is not possible to select multiple buttons at the same time.

4-8-2. Control method

4-8-2-1. Indoor unit selection method

To set or cancel demand, clear filter signs or clear operation times, first click on the name of the target indoor unit. The selected locations have ✓ check marks in the selection column.

Click again on the same location to remove the check mark, canceling the selection.

To select all indoor units, click on the Select all button in the upper left of the screen.

To cancel selections of all indoor units, click on the Clear all button in the upper left of the screen. The Clear all button cannot be used if nothing has been selected.

It is possible to select or deselect multiple indoor units by dragging around them with the mouse.

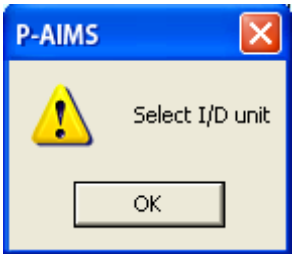
Unconnected units cannot be selected.

4-8-2-2. Clearing filter signs

Clicking on the Reset Filter sign button in the upper right of the screen when an indoor unit is selected displays a confirmation message.

Click on the Yes button to clear the filter sign. Click on the No button to cancel the reset.

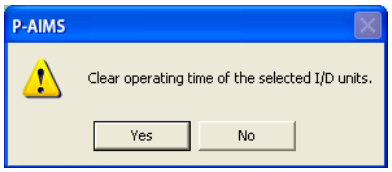
* Filter signs are displayed after the operation time of each indoor unit reaches a certain level.
* These signs can also be cleared by pressing the Filter Reset button on the remote control unit connected to the indoor unit.
* Filter signs are only an approximate guide. We recommend that you clean indoor unit filters regularly, even if no signs have been issued.



An error message is displayed if the user clicks on the Reset Filter sign button when no indoor unit is selected.

Select the indoor unit before clicking on the Reset Filter sign button.

4-8-2-3. Clearing operation time

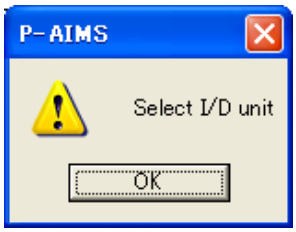


Selecting the indoor unit to clear operating time for, then clicking on the Clear OP. time button displays a confirmation message.

Click on the Yes button to reset the operation time for the indoor unit.

Click on the No button to avoid clearing operation time.

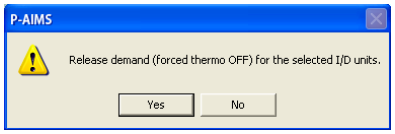
* The operation count cannot be reset.
* Resetting operation time has no effect on distribution calculations and similar operations.
* Operation time is tallied by the system, and has no relation to the adapter time.



An error message is displayed if the user clicks on the Clear OP. time button when no indoor unit is selected.

Select the indoor unit before clicking on the Clear OP. time button.

4-8-2-4. Canceling and setting demand



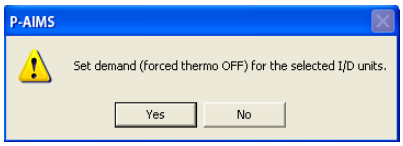
Selecting the indoor unit to cancel demand for, then clicking on the Demand cancel button displays a confirmation message.

Click on the Yes button to clear demand for the indoor unit.

Click on the No button to avoid canceling demand.

* Even if Demand is cancelled, Thermostat On indication may not be displayed in some situations. It is determined by the operating conditions of the indoor unit.

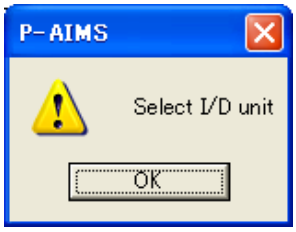
Selecting the indoor unit to set demand for, then clicking on the Demand settings button displays a confirmation message.



Click on the Yes button to set demand for the indoor unit.

Click on the No button to avoid setting demand.

* Thermostat On indication disappears when Demand is set.



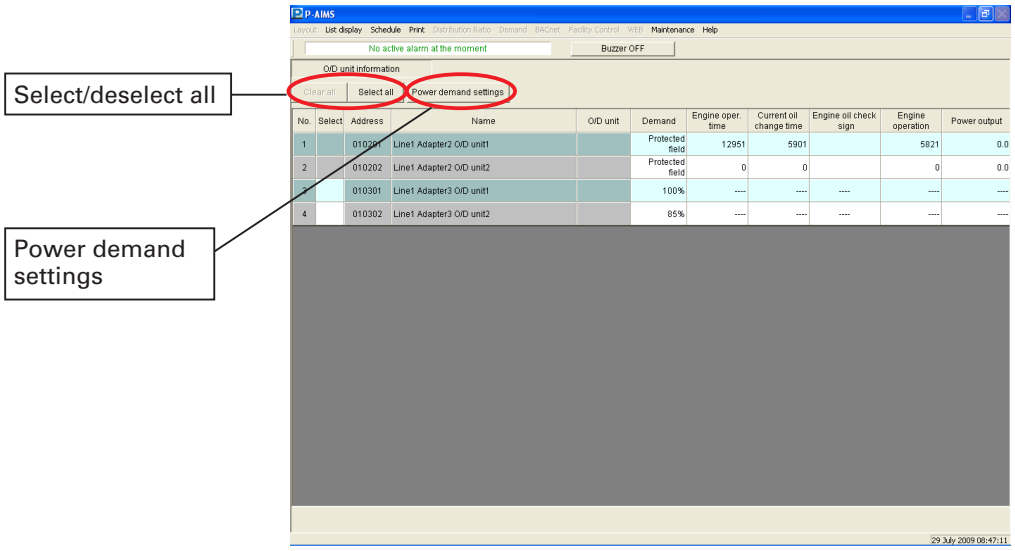
An error message is displayed if the user clicks on the Demand cancel Demand settings button when no indoor unit is selected.

Select the indoor unit before clicking on the Demand cancel Demand settings button.

4-9. Outdoor unit information

[Procedure]
On the menu bar, select “List display” – “O/D unit information”.

Operation times, operation counts and oil check signs are displayed for outdoor units. Demand setting is also available for outdoor units of electric air conditioners that are capable of demand setting.



Clear all | Select all :Use to clear all and select all.

Power demand settings :Use for demand setting.

Key

- · Select :Selects the outdoor unit to control. Click to add a check mark.
- · Address :Displays the addresses of outdoor units.
- · Name :Displays the names of outdoor units.
- · O/D unit :Displays the codes of outdoor units.
- · Demand :Displays the operation range (EHP only).
- · Engine oper. time :Displays the engine operation times of GHP systems. (not used for EHP)
- · Current oil change time :Displays the operation times of a GHP system since its last oil change. (not used for EHP)
- · Engine oil check sign :Displays the engine oil check signs for GHP systems. (not used for EHP)
- · Engine operation :Displays the engine operation counts of GHP systems. (not used for EHP)
- · Power output :Displays the power output of high-power excel.

* In some cases, the model of adapter used for GHP systems may prevent display of engine operation time, operation time since last oil change, oil check signs, engine operation count and power generation.
* If it is not possible to communicate with the adapter, or if the model used cannot display the content, the columns will display “----”.
* With electric (package) types, only demand setting is available for the outdoor unit (where setting is possible).
* For outdoor units that cannot be set for demand, the Demand column displays “Protected field“.
* Consult your dealer or service provider about assignment of outdoor unit points to screens.

No.	Select	Address	Name	O/D unit	Demand	Engine oper. time	Current oil change time	Engine oil check sign	Engine operation	Power output
1		010101	Line1 Adapter1 O/D unit1		Protected field	----	----	----	----	----
2		010102	Line1 Adapter1 O/D unit2		Protected field	----	----	----	----	----

The names of outdoor units which are unconnected are displayed in red. Their operating status cannot be checked.

4-9-1. Display

4-9-1-1. Oil check sign

Any outdoor unit marked with an oil check sign requires an oil check.

No.	Select	Address	Name	O/D unit	Demand	Engine oper. time	Current oil change time	Engine oil check sign	Engine operation	Power output
1		010201	Line1 Adapter2 O/D unit1		Protected field	12951	5901	Engine oil check	5821	0.0
2		010202	Line1 Adapter2 O/D unit2		Protected field	0	0		0	0.0
3		010301	Line1 Adapter3 O/D unit1		100%	----	----	----	----	----
4		010302	Line1 Adapter3 O/D unit2		85%	----	----	----	----	----

* If an oil check sign is displayed, contact the service engineer to have the oil level of the outdoor unit checked. The oil check sign will disappear once the oil check is complete.

4-9-1-2. Power output

If a High Power Excel outdoor unit is connected, its cumulative total power output (in kWh) is displayed.

No.	Select	Address	Name	O/D unit	Demand	Engine oper. time	Current oil change time	Engine oil check sign	Engine operation	Power output
1		010201	Line1 Adapter2 O/D unit1		Protected field	12951	5901		5821	820.0
2		010202	Line1 Adapter2 O/D unit2		Protected field	0	0		0	200.0

4-9-2. Demand setting

4-9-2-1. Outdoor unit selection

For outdoor units for which demand can be set (EHP units), the setting value is displayed as a percentage in the demand setting column. Click on the name of the outdoor unit to make the setting for.

The selected locations have ✓ check marks in the selection column. In GHP systems, demand cannot be set, so the selection is unavailable.

Click again on the same location to remove the check mark, canceling the selection.

To select all selectable outdoor units, click on the Select all button in the upper left of the screen. The Clear all button cannot be used if nothing has been selected.

It is possible to select or deselect multiple outdoor units by dragging around them with the mouse.

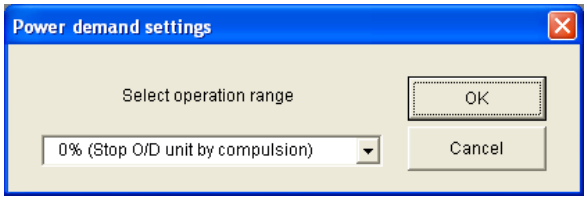
Outdoor units which are W/O connection or incapable of demand setting cannot be selected.

No.	Select	Address	Name	O/D unit	Demand	Engine oper. time
1		010201	Line1 Adapter2 O/D unit1		Protected field	12951
2		010202	Line1 Adapter2 O/D unit2		Protected field	0
3	✓	010301	Line1 Adapter3 O/D unit1		100%	----
4	✓	010302	Line1 Adapter3 O/D unit2		75%	----

Check marks cannot be placed in the selection column for outdoor units which have “Protected field” displayed in the Demand column.

4-9-2-2. Setting demand values

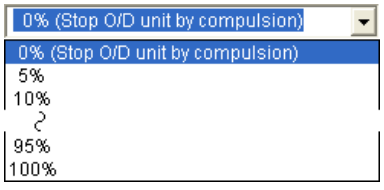
Selecting the outdoor unit to set, then clicking on the Power demand settings button displays the Power Demand Settings screen. Click on the ▼ button on the right of the frame in which Demand is displayed. The settable operation range list is displayed.



Select the operation range for the outdoor unit. The operation range differs depending on the outdoor unit.

A setting of 0% fully stops all air conditioners connected to the outdoor unit.

A setting of 100% means that no demand operation is possible.

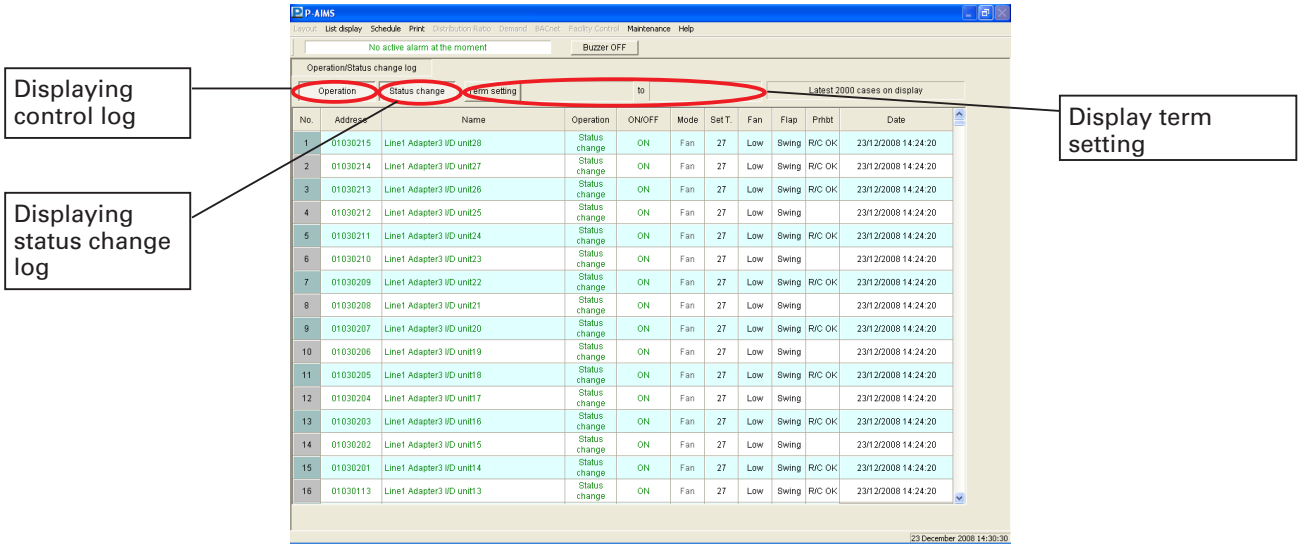


* Operation range 75% means that the outdoor units operation is demand-controlled in the range of 0% – 75%.

4-10. Control/Status Change History

[Procedure]
On the menu bar, select “List display” – “Operation/Status change log”.

This displays the history of indoor units which have had changes in the status of any device. History can also be displayed for a specified period. Extraction conditions can be set to filter the display and show only history items of certain types.



Operation :Displays control log.

Status change :Displays status change log.

Term setting :Use to specify the period of log to display.

Key

· Address :Displays the addresses of indoor units.
· Name :Displays the names of devices which have been controlled or have had changes in their operating status.
· Operation :Displays details of the controlled devices, or their status changes.
Status change: dark green, Controller: pale blue, Schedule: blue, Fire alarm: orange, Event: dark blue
· ON/OFF :Displays changes in operation status.
ON: green, OFF: red, Fire Off: orange, fire cancel: orange, other: black
· Mode :Displays the operating mode.
A/cool, A/Heat: green, Cool: blue, Heat: red, Fan: gray, Dry: pale blue
· Set T. :Displays the set temperature.
· Fan :Displays fan speeds. Auto (automatic fan speed), High, Med., Low
· Flap :Displays the directions of flaps.
Swing, F1 – F5
· Prhbt :Displays the central control status.
Individual (no prohibition), Prhbt 1 – Prhbt 7 (various prohibitions are settable)
· Date :Displays the times of control and status changes.

* The maximum number of display items during automatic update is 2,000.
* The maximum number of display items in a specified term is 10,000.
* The maximum number of stored log items is 200,000. Data items exceeding that number are deleted.
* We recommend setting automatic backup under “Print” – “Auto EXCEL output settings”.
  History can be saved for each date. The maximum number of items that can be saved per day is 400,000.

4-10-1. Display method

4-10-1-1. Displaying control history

The control history is displayed when the Operation button has been clicked on and remains depressed. The history displays control operations using the remote control unit, schedule and other means.

Click on a button that has been pressed to change it back to the un-pressed state.

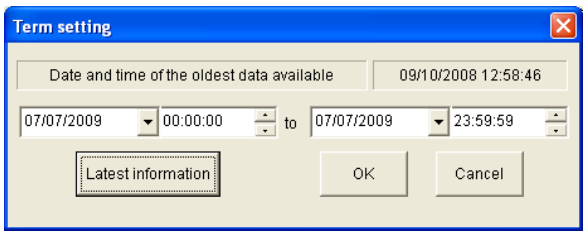
4-10-1-2. Displaying status change history

The status change history is displayed when the Status change button has been clicked on and remains depressed. The entire history of air conditioner status change is displayed.

* If both the Operation button and the Status Change button are pressed, both operation and status change logs are displayed. If neither button has been pressed, nothing is displayed.

4-10-1-3. Display time range specification method

Click on the Term setting button to display the Term Setting screen.



Click on the button on the right of the date display space to display the calendar.

Click on the calendar dates to select the term of history items to display.

Refer to “4.3 Calendar” for the calendar control method.

Click on the button on the right of the time display space to set the time.

Click first on the hours, minutes and seconds, then on the button to update the hours, minutes and seconds.

Specify the start and end dates. History is displayed for the specified range.

* Set an end date that is later than the start date. Results will not be displayed correctly if the end date is earlier than the start date.

Specify the display term, then click on the OK button to display history in the specified term.

To close the Term Setting screen, click on the Cancel button.

To display the latest history, click on the Latest information button without specifying a term.

* The maximum number of display items in a specified term is 10,000.
* This displays the latest count.
* Once a term is specified, the term specification will be as same as previous one when this screen is displayed again.

If there is no history on the specified dates, the display is as shown below.

No.	Address	Name	Operation	ON/OFF
		No applicable history		

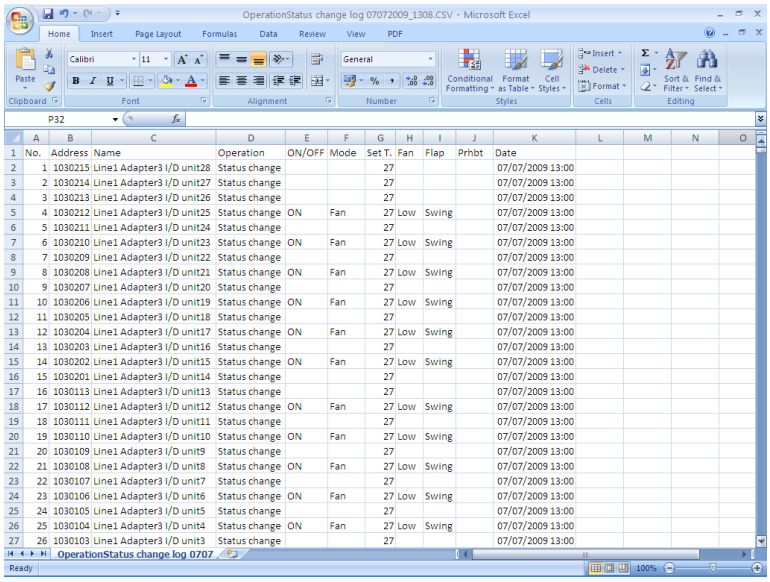
4-10-2. Printing

4-10-2-1. Excel output

[Procedure]
On the menu bar, select “Print” – “EXCEL output”.

Currently displayed history can be saved as a file in CSV format, which can be displayed by Microsoft Excel and similar applications. The content displayed on the screen is placed in the CSV file. Switch the display to place only control history, or only status change history, in the file.

Refer to “4-6-2 Excel output” for the operation method.



No.	Address	Name	Operation	ON/OFF	Mode	Set T.	Fan	Flap	Prhbt	Date
1	1030215	Line1 Adapter3 I/D unit28	Status change			27				07/07/2009 13:00
2	1030214	Line1 Adapter3 I/D unit27	Status change			27				07/07/2009 13:00
3	1030213	Line1 Adapter3 I/D unit26	Status change			27				07/07/2009 13:00
4	1030212	Line1 Adapter3 I/D unit25	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
5	1030211	Line1 Adapter3 I/D unit24	Status change			27				07/07/2009 13:00
6	1030210	Line1 Adapter3 I/D unit23	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
7	1030209	Line1 Adapter3 I/D unit22	Status change			27				07/07/2009 13:00
8	1030208	Line1 Adapter3 I/D unit21	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
9	1030207	Line1 Adapter3 I/D unit20	Status change			27				07/07/2009 13:00
10	1030206	Line1 Adapter3 I/D unit19	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
11	1030205	Line1 Adapter3 I/D unit18	Status change			27				07/07/2009 13:00
12	1030204	Line1 Adapter3 I/D unit17	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
13	1030203	Line1 Adapter3 I/D unit16	Status change			27				07/07/2009 13:00
14	1030202	Line1 Adapter3 I/D unit15	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
15	1030201	Line1 Adapter3 I/D unit14	Status change			27				07/07/2009 13:00
16	1030113	Line1 Adapter3 I/D unit13	Status change			27				07/07/2009 13:00
17	1030112	Line1 Adapter3 I/D unit12	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
18	1030111	Line1 Adapter3 I/D unit11	Status change			27				07/07/2009 13:00
19	1030110	Line1 Adapter3 I/D unit10	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
20	1030109	Line1 Adapter3 I/D unit9	Status change			27				07/07/2009 13:00
21	1030108	Line1 Adapter3 I/D unit8	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
22	1030107	Line1 Adapter3 I/D unit7	Status change			27				07/07/2009 13:00
23	1030106	Line1 Adapter3 I/D unit6	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
24	1030105	Line1 Adapter3 I/D unit5	Status change			27				07/07/2009 13:00
25	1030104	Line1 Adapter3 I/D unit4	Status change	ON	Fan	27	Low	Swing		07/07/2009 13:00
26	1030103	Line1 Adapter3 I/D unit3	Status change			27				07/07/2009 13:00

The file name is assigned automatically.

OperationStatus change log 07072009 _ 1308.CSV

Name DDMMYYYY hhmm

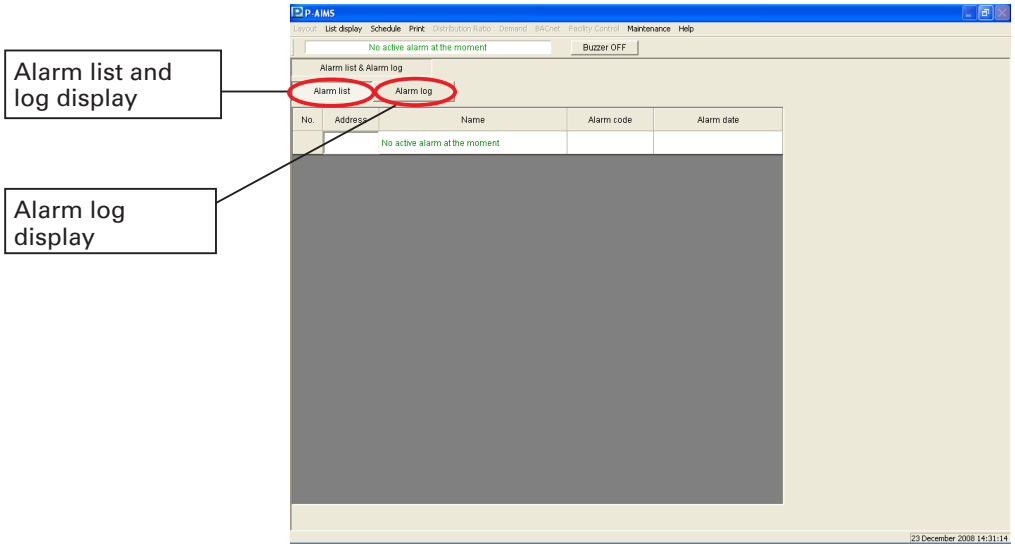
4-11. Alarm list & alarm log

[Procedure]
On the menu bar, select “List display” – “Alarm list & alarm log”.

The display can present either a list of currently ongoing alarms, or alarms that have occurred to date.

4-11-1. Alarm list

This displays the history of alarms and restoration for each device. History can also be displayed for a certain term.



Alarm list :Displays the alarm list.

Alarm log :Displays alarm history.

Key

· Address :Displays the addresses of alarms.
· Name :Displays the names of devices which have issued alarms.
· Alarm code :Displays alarm codes at the times alarms are issued.
· Alarm date :Displays the data and time at which the alarm occurred.

* The maximum number of display items is 2,000.

4-11-1-1. Display method

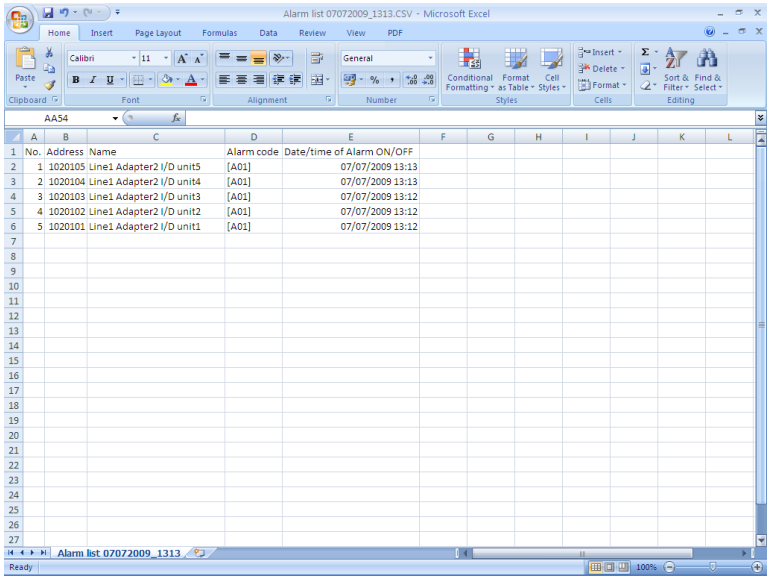
When the Alarm list is pressed in, the alarm list is displayed.
The alarm list only displays current alarms which are still in effect.
Either the Alarm History button or the Alarm List button will always be selected.
The alarm is automatically removed from the list if it has been restored.

4-11-1-2. Excel output

[Procedure]
On the menu bar, select “Print” – “Excel output”.

The currently displayed list can be saved as a file in CSV format, which can be displayed by Microsoft Excel and similar applications.

Refer to “4-6-2 Excel output” for the operation method.



No.	Address	Name	Alarm code	Date/time of Alarm ON/OFF
1	1020105	Line1 Adapter2 I/D unit5	[A01]	07/07/2009 13:13
2	1020104	Line1 Adapter2 I/D unit4	[A01]	07/07/2009 13:13
3	1020103	Line1 Adapter2 I/D unit3	[A01]	07/07/2009 13:12
4	1020102	Line1 Adapter2 I/D unit2	[A01]	07/07/2009 13:12
5	1020101	Line1 Adapter2 I/D unit1	[A01]	07/07/2009 13:12

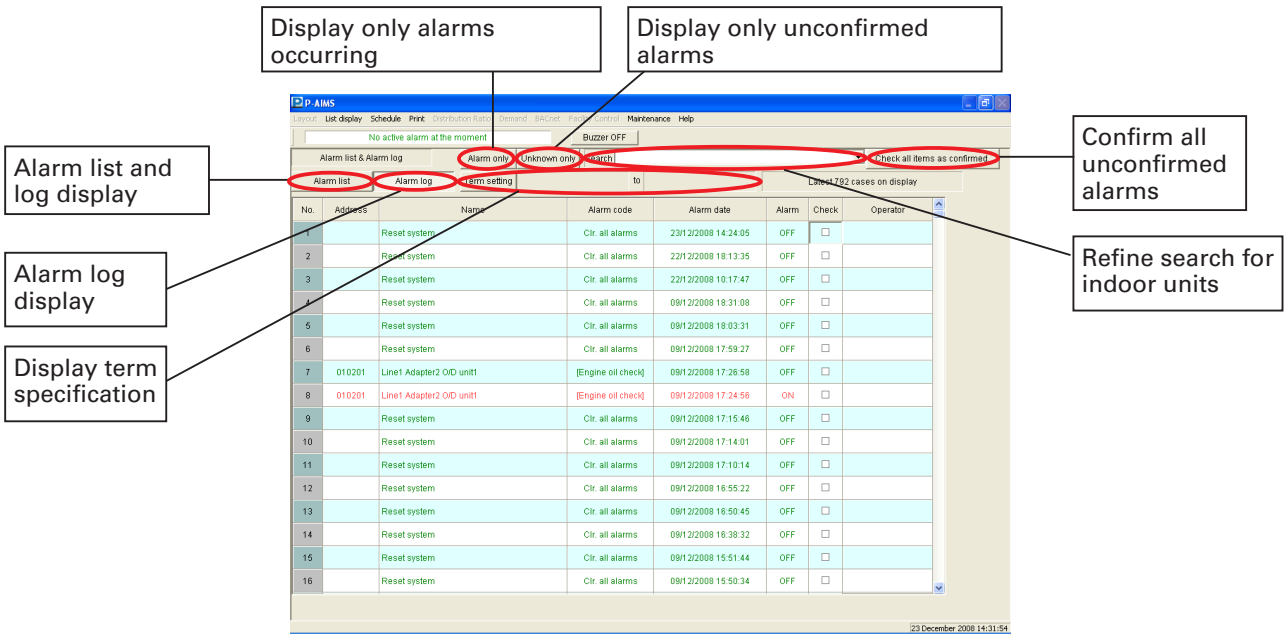
The file name is assigned automatically.

Alarm list 07072009 _ 1313.CSV

Name DDMMYYYY hhmm

4-11-2. Alarm log

This displays the log of alarm occurrence and restoration to date. Display conditions can be set in order to display only certain alarms.



Alarm list :Displays the alarm list.

Alarm log :Displays alarm log.

Alarm only :Displays only the log of alarms which have occurred.

Unknown only :Displays only the log of alarms which have not been confirmed.

Search :Use to select the indoor units to display.

Check all items as confirmed. :Confirm all unconfirmed alarms.

Term setting :Use to specify the period of log to display.

Key

- Address :Displays the addresses of alarms.
- Name :Displays the names of devices which have issued alarms.
- Alarm code :Displays alarm codes at the times alarms are issued/restored.
- Alarm date :Displays dates and times when alarms are issued/restored.
- Alarm :Displays occurrence/restoration status of alarms.
- Check :Displays the status of alarm confirmation by the operator. Add a check mark to confirmed alarms.
- Operator :Displays the name of the person who confirmed the alarm.

* The maximum number of display items is 2,000.

4-11-2-1. Display method

When the Alarm log button is pressed in, the alarm log is displayed.
The log of alarms occurring to date, and their restoration status, can be checked here.
Either the Alarm log button or the Alarm list button will always be selected.

4-11-2-2. Refining the displayed data

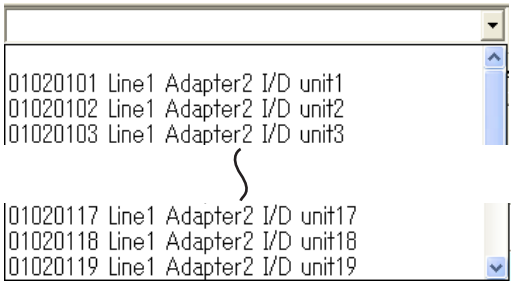
When the Alarm only button has been pressed, only alarms which have occurred historically are displayed. Click on the button again to return the button to its un-pressed state.

When the Unknown only button has been pressed, only alarms which have been confirmed historically are displayed. Click on the button again to return the button to its un-pressed state.

* These two buttons can be used in combination.
  For example, if both the Alarm only and the Unknown only buttons are pressed, the display is limited to current alarms that are unknown.

Selecting the indoor unit to display refines the display to cover only that indoor unit.

Click on the button on the right of the indoor unit display column, to display the list of registered indoor units.

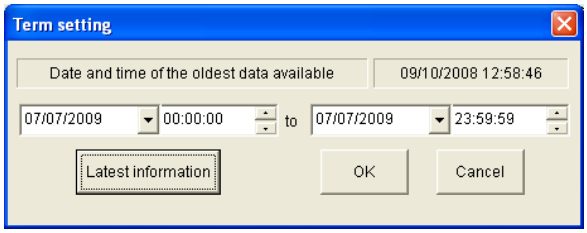


Click on the indoor unit to display.
History is displayed for the selected indoor unit.
The Alarm only and Unknown only buttons can be used together to display only alarms for the selected indoor unit, or only unconfirmed alarms.

* Select the blank at the top of the list to return to display of all logs.
* When this screen is displayed again from another screen, it automatically reverts to displaying all items.

4-11-2-3. Display range term specification method

Click on the Term setting button to display the Term Setting screen.



Click on the button on the right of the date display space to display the calendar.
Click on the calendar dates to select the term of history items to display.
Refer to “4.3 Calendar” for the calendar operation method.

Click on the button on the right of the time display space to set the time.
Click first on the hours, minutes and seconds, then on the button to update the hours, minutes and seconds.

Specify the start and end dates. Log is displayed for the specified range.

* Set an end date that is later than the start date. Results will not be displayed correctly if the end date is earlier than the start date.

Specify the display term, then click on the OK button to display history in the specified term.
To close the Term Setting screen, click on the Cancel button.

To display the latest log, click on the Latest information button without specifying a term.

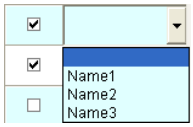
* Once a term is specified, the term specification will be as same as previous one when this screen is displayed again. * The maximum number of display items for a specified term is 10,000, and the maximum for latest information display is 2,000. Latest information display is updated automatically.

4-11-2-4. Alarm confirmation

After confirming alarms, the operator should add check marks to those alarms to manage their status.

Click in the Confirmation column for the confirmed alarms to add check marks.
Click again where there is a check mark to remove it.

Click in the frame of the operator column to display the button on the right of the frame.



Select the name of the operator who confirmed the alarm.

When the Unknown only button has been pressed, only alarms which do not have check marks (i.e. they have not been confirmed) are displayed.

* Alarms cannot be confirmed just by registering the operator name. * Use the “Maintenance” – “Register operator information” screen to register operator names. If the operator name has been changed on the “Maintenance” – “Register operator information” screen, all names in the confirming operator column will be updated to the new names.

4-11-2-5. Print screen

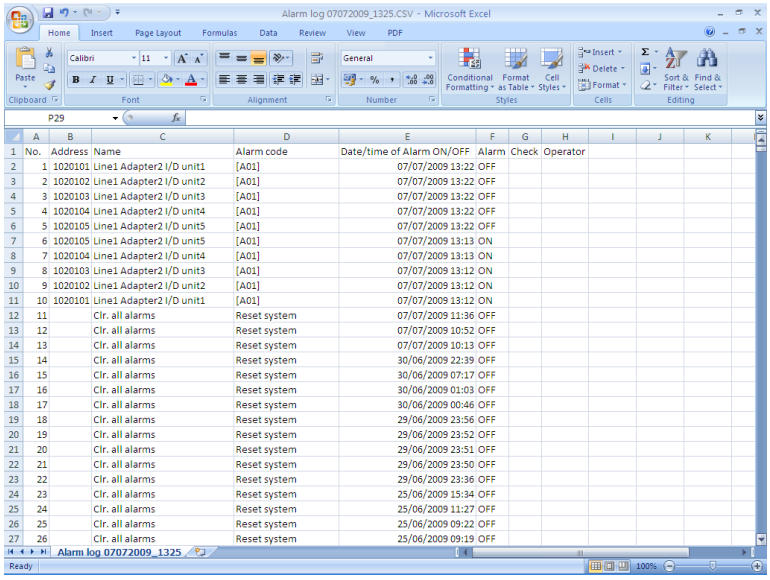
Refer to “4-6-1 Print screen” for details of how to operate this screen.

4-11-2-6. Excel output

[Procedure]
On the menu bar, select “Print” – “EXCEL output”.

Currently displayed log can be saved as a file in CSV format, which can be displayed by Microsoft Excel and similar applications.

Refer to “4-6-2 Excel output” for the operation method.



No.	Address	Name	Alarm code	Date/time of Alarm ON/OFF	Alarm	Check	Operator
1	1020101	Line1 Adapter2 I/D unit1	[A01]	07/07/2009 13:22	OFF		
2	1020102	Line1 Adapter2 I/D unit2	[A01]	07/07/2009 13:22	OFF		
3	1020103	Line1 Adapter2 I/D unit3	[A01]	07/07/2009 13:22	OFF		
4	1020104	Line1 Adapter2 I/D unit4	[A01]	07/07/2009 13:22	OFF		
5	1020105	Line1 Adapter2 I/D unit5	[A01]	07/07/2009 13:22	OFF		
6	1020105	Line1 Adapter2 I/D unit5	[A01]	07/07/2009 13:13	ON		
7	1020104	Line1 Adapter2 I/D unit4	[A01]	07/07/2009 13:13	ON		
8	1020103	Line1 Adapter2 I/D unit3	[A01]	07/07/2009 13:12	ON		
9	1020102	Line1 Adapter2 I/D unit2	[A01]	07/07/2009 13:12	ON		
10	1020101	Line1 Adapter2 I/D unit1	[A01]	07/07/2009 13:12	ON		
11		Clr. all alarms	Reset system	07/07/2009 11:36	OFF		
12		Clr. all alarms	Reset system	07/07/2009 10:52	OFF		
13		Clr. all alarms	Reset system	07/07/2009 10:13	OFF		
14		Clr. all alarms	Reset system	30/06/2009 22:39	OFF		
15		Clr. all alarms	Reset system	30/06/2009 07:17	OFF		
16		Clr. all alarms	Reset system	30/06/2009 01:03	OFF		
17		Clr. all alarms	Reset system	30/06/2009 00:46	OFF		
18		Clr. all alarms	Reset system	29/06/2009 23:56	OFF		
19		Clr. all alarms	Reset system	29/06/2009 23:52	OFF		
20		Clr. all alarms	Reset system	29/06/2009 23:51	OFF		
21		Clr. all alarms	Reset system	29/06/2009 23:50	OFF		
22		Clr. all alarms	Reset system	29/06/2009 23:36	OFF		
23		Clr. all alarms	Reset system	25/06/2009 15:34	OFF		
24		Clr. all alarms	Reset system	25/06/2009 11:27	OFF		
25		Clr. all alarms	Reset system	25/06/2009 09:22	OFF		
26		Clr. all alarms	Reset system	25/06/2009 09:19	OFF		

The file name is assigned automatically.

Alarm log 07072009 _ 1325.CSV

Name DDMMYYYY hhmm

4-11-2-7. Settings for automatic Excel output

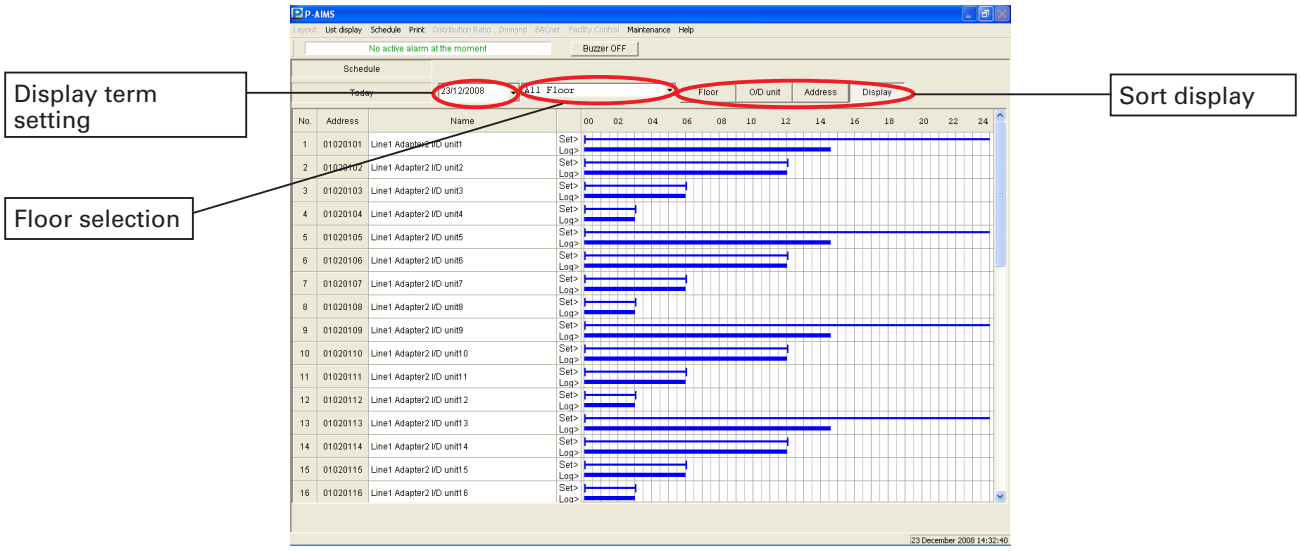
Refer to “4-6-3. Settings for automatic Excel output” for details of how to operate the Auto EXCEL output settings screen.

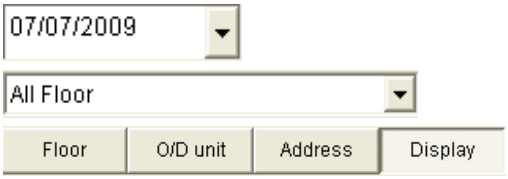
4-12. Schedule/Results

[Procedure]
On the menu bar, select “Schedule” – “Schedule/results”.

This displays the schedule and results in bar graph form.

The display term can be specified in order to check the presetting status, the working status of a device relative to its schedule, or other information.





:Use to select the dates to display.

:Use to select floor areas.

:Use to select the display order.

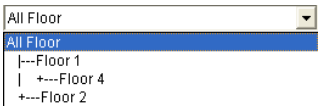
Key

· Address :Displays the addresses of indoor units.
· Name :Displays the names of the indoor units.
· Graph :Upper Schedules. Lower: Displays results.
Auto cool, Auto heat: green, Cool: blue, Heat: red, Fan: gray, Dry: pink
The schedule graph display is displayed in black if it is only showing On/Off schedules.

* Display is only for main units.
* If a communications error occurs during operation, operation is displayed as the last mode used.
* Use the “Schedule” – “Schedule operation time settings” screen to set schedule times.
* Use the “Schedule” – “Mode settings (Calendar)” screen to set schedule modes.

4-12-1. Display method

4-12-1-1. Selecting displayed floor and area



If the floor and area is “All Floor”, all registered indoor units are displayed. Click on the ▼ button on the right edge of the floor selection list to display a list of registered floors and areas.

From the list, select the floor or area to monitor. A list of indoor units registered within that floor and area is displayed.

4-12-1-2. Sort lists

Click on the Sort button to change the display order of a list. The currently pressed button is the one which determines the sort order.

Click on the buttons to change the list orders. If other buttons are pressed, the one that was clicked last is effective. The illustration above shows the list displayed in the indoor unit master order.

Floor :Display is in order of floor name registration.
O/D unit :Display is in order of outdoor unit addresses, from the most recent.
Address :Display is order of addresses, from the most recent.
Display :Display is in order of most recent registrations to the indoor unit master.

* Any button can be selected. It is not possible to select multiple buttons at the same time.

4-12-1-3. Display time range specification method

Click on the ▼ button for the box with the date displayed at the top of the screen to display the calendar. From the calendar, select the date to display.

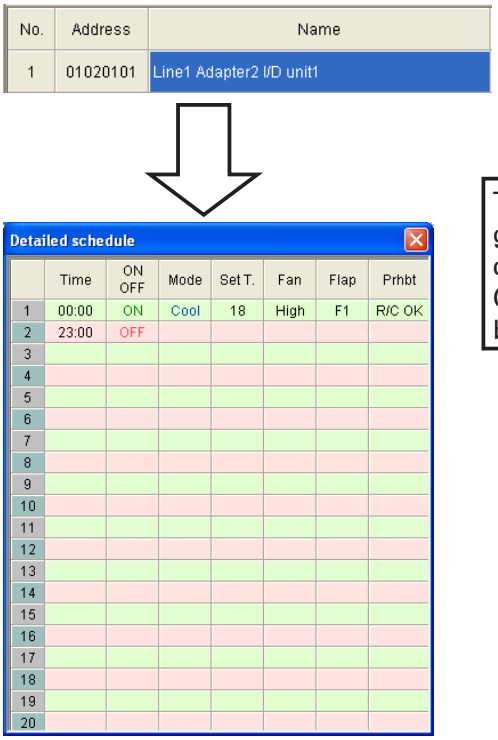
History is displayed for the specified date.

Refer to “4-3. Calendar” for the calendar operation method.

* The graph of future schedule cannot be displayed if schedule times and mode setting have not been set.
* If this screen is displayed first, it shows the operation status for that day.

4-12-2. Detailed display of schedule time

Click on the indoor unit name which has its schedule time displayed on the graph to display detailed schedule content.



The detailed schedule for the displayed graph can be checked. It cannot be changed from this screen.
Close this screen by clicking on the ✕ button in the upper right.

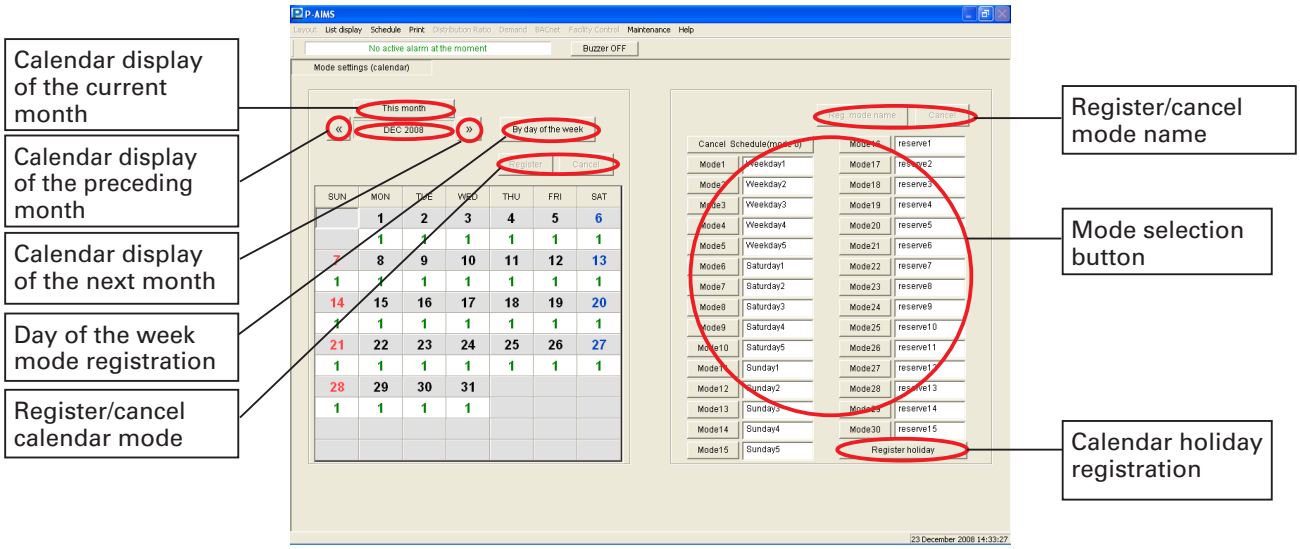
· Time :Display schedule time.
· ONOFF :Specify air conditioner starts and stops. It is also OK to make no specification. In that case, only the set items change.
· Mode :Displays the operation modes of indoor units. A/Cool, A/Heat: green, Cool: blue, Heat: red, Fan: gray, Dry: pale blue
· SetT :Displays the set temperature.
· Fan :Displays fan speeds. Auto (automatic fan speed), High, Med., Low
· Flap :Displays the directions of flaps. Swing, F1 – F5 (Heat, Fan: F1 – F5, for Cooling: F1 – F3)
· Prhbt :Displays central control (local operation prohibited). Individual (no prohibition), Prhbt 1=Prhbt 7 (Settings can be made for various types of central control (Prohibition))

* Items which have not been set cannot be displayed.

4-13. Mode setting (calendar)

[Procedure]
On the menu bar, select “Schedule” – “Mode settings (Calendar)”.

Set the scheduled operation mode to calendar.



* Use the “Schedule” – “Schedule operation time settings” screen to set schedule times for each mode.

4-13-1. Display method

4-13-1-1. Calendar display

Click on the « » buttons on the left and right of the place where the current date and month are displayed above the current calendar, to switch the calendar to earlier and later months.

Click on the This month button to display the calendar for the current month.

* The buttons are grayed out and unavailable during mode setting.
* The displayed calendar cannot be changed until mode settings are registered or cancelled.

4-13-2. Calendar operation

4-13-2-1. Registering holidays on the calendar

Click on the Register holiday button to leave it pressed.

Click on the date to make into a holiday, and its date text turns red.

To cancel the holiday setting, click again on the red text to restore the original text color and cancel the holiday setting.

Once you have finished editing calendar mode numbers, click on the Register button to save the mode.

Click on the Cancel button to restore the changed content to its previously registered status.

To abandon holiday registration, click on any of the mode number buttons.

The

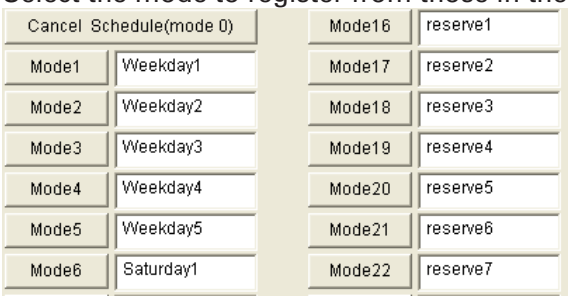
button reverts to its non-depressed state.

* Even if holidays have been registered on the calendar, the schedule will not necessarily switch to holiday operation. Holiday operation requires registration of a schedule mode number for holidays on the calendar.
* Holidays cannot be registered for dates that have passed.

4-13-3. Registering mode settings

4-13-3-1. Registering modes to the calendar

Select the mode to register from those in the mode list.



When you click on the mode button to register, the selected mode button changes to the depressed

state.

When you click on the date to register on the calendar, the number of the selected mode is registered in the area below the date.

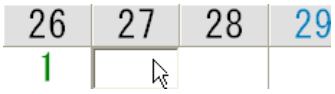
* To change to another mode, select another mode number and click on the registered date. Mode number will be overwritten.
* Mode registrations to the calendar can be made within a period of one year, starting from the day after the registration is made.
* Modes cannot be registered for dates that have passed.

4-13-3-2. Deleting modes from the calendar

To delete a registered mode number, click on

in the mode list to depress it.

Click on a date with a registered mode number to delete the number.



* Modes cannot be deleted from dates that have passed.

4-13-3-3. Registering an edited calendar

Once you have finished editing calendar mode numbers, click on the Register button to save the mode.

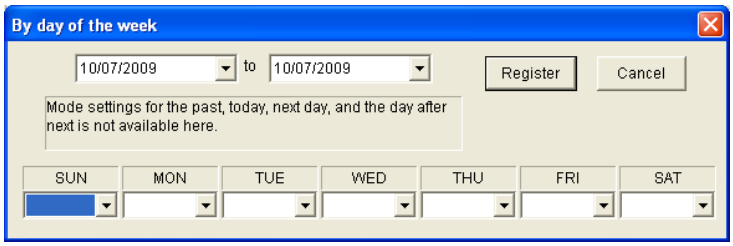
Click on the Cancel button to avoid registering the edited mode.

* The Register and Cancel buttons become available once the calendar is edited. It is not possible to register a mode to another calendar without clicking either button first.
* If the Cancel button is clicked, the calendar reverts to the state before editing the mode numbers.

4-13-3-4. Registering in day-of-the-week units

You can specify a set period and only make the mode settings once for each week.

Click on the By day of the week button to display the Schedule Mode Setting screen for setting by day of the week.



Click where the date is displayed to specify the term to set for weekly mode.

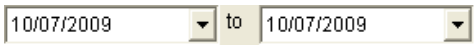
Click on the button on the right of the date display space to display the calendar.

On the calendar, click on the dates from the start to the end of the term you need to set the mode for.

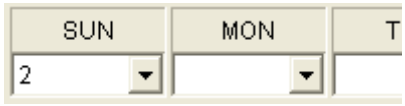
Refer to “4-3. Calendar” for the calendar operation method.

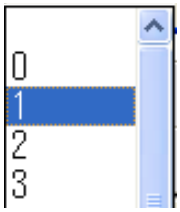
Mode setting is not possible for past dates, today, tomorrow or the day after.

Set the start and end dates.



Click on the under each day of the week to display the list of mode numbers.





Click to select the mode number to register, with reference to the mode list.

Register the mode for each day of the week, and click on the Register button to register the mode number to the calendar for the specified period.

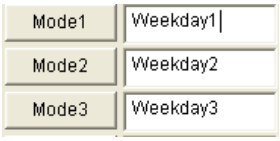
To cancel registration of the day of the week schedule mode, click on the Cancel button.

* It may not be necessary to set mode numbers for all days of the week.
* There is no need to click on the calendar Register or Cancel buttons after setting schedule modes by day of the week. Settings are registered to the calendar once the Register button is clicked on this screen.
* If some mode numbers are already set to the calendar, registering the schedule by day of the week overwrites those mode numbers.

4-13-4. Mode comment operation

4-13-4-1. Registering mode comments

To edit mode comments, click in the comment area of the mode list.



The text cursor is displayed, so use the keyboard to edit the comment.

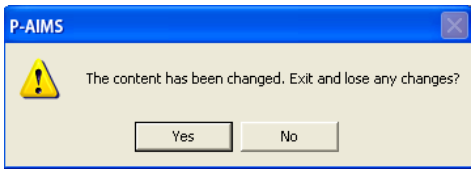
Once you have finished editing the comment, click on the Reg. mode name button to save.

Click on the Cancel button to return the edited mode to its previous state, without registering changes.

* The Reg. mode name and Cancel buttons become available once comments have been edited.
* If the Cancel button is clicked, the mode name reverts to the name before the edit.
* The mode names are used as the mode names set in the “Schedule” - “Schedule operation time settings” screen.

4-13-5. Change confirmation

If you have changed the scheduled operation times and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



Click on the Yes button to discard changes and switch screens.

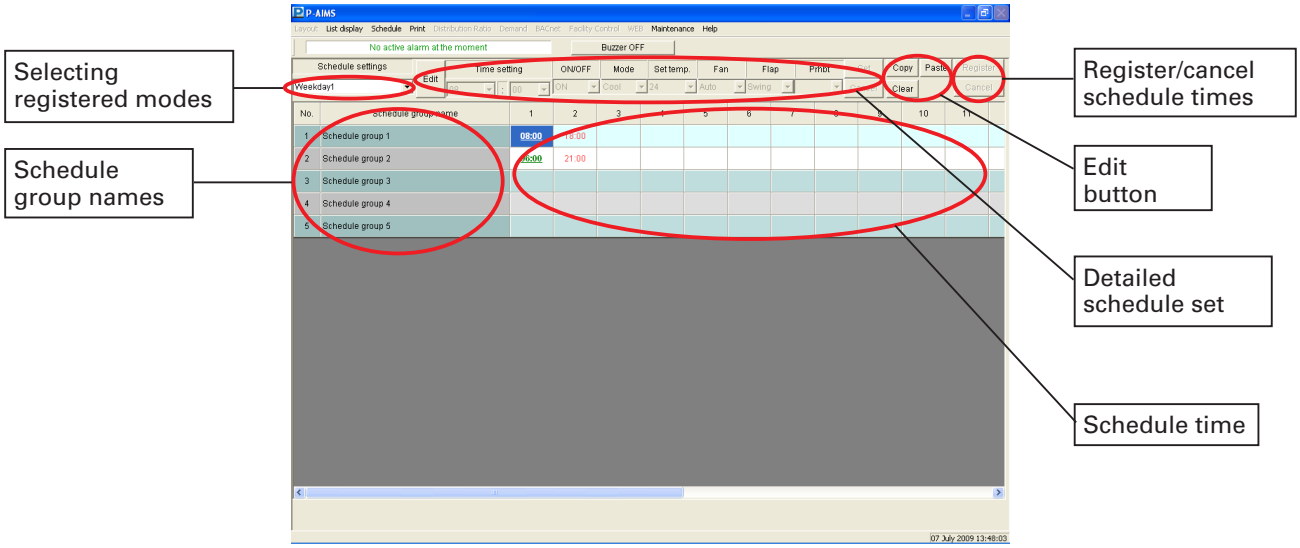
Click on the No button to continue using this screen.

4-14. Schedule Operation Time Setting

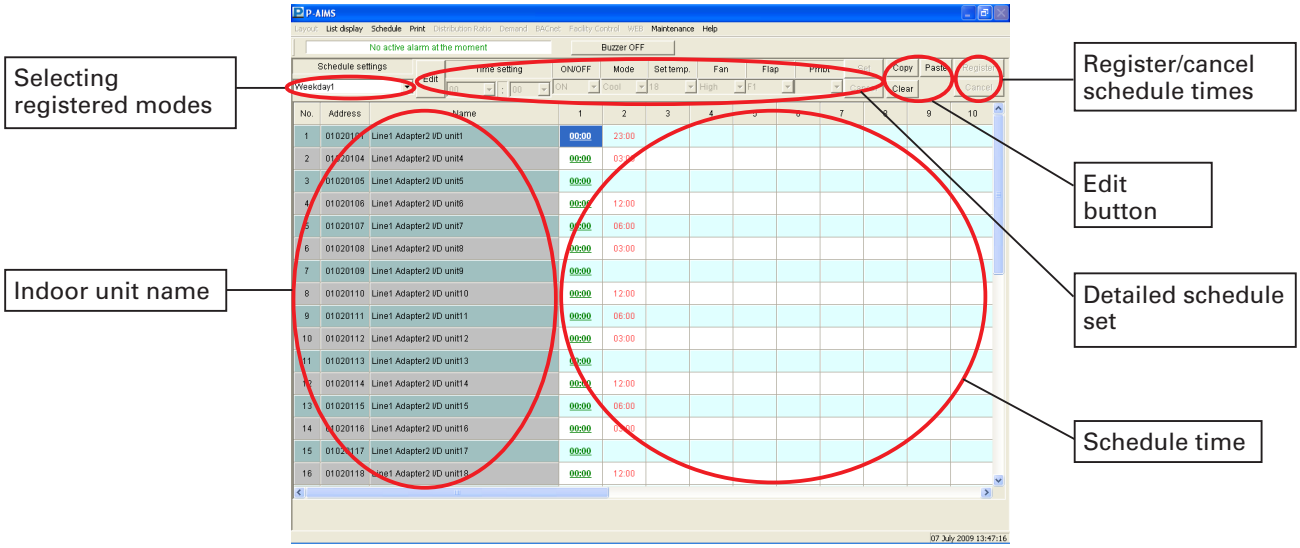
[Procedure]
On the menu bar, select “Schedule” - “Schedule Operation Time Setting”.

Set the scheduled operation times for each registered mode. The screen varies depending on whether or not you have registered a schedule group under “Maintenance” - “Register schedule group name”. If you have registered a schedule group, use the “Maintenance” - “Indoor unit master” screen to assign indoor units to groups. If you have not registered any schedule groups, settings must be made for individual indoor units, so assignment setup is not required.

The screen if you have registered schedule groups



The screen if you have not registered schedule groups



:Selects the mode to register.

:Sets schedule times and other details.

:Use for editing schedule times. (Use for copying, pasting and clearing setting content).

:Registers the changed content.

:Restores all changed data to its previous states.

Key

· Schedule group name :Displays the schedule group name. (If a schedule group has been registered)
Use the "Maintenance" - "Register schedule group name" screen to register schedule groups.
Use the "Maintenance" - "Indoor unit master" screen to assign indoor units to groups.

· Address :Displays the address numbers of indoor units. (If no schedule group has been registered)

· Name :Displays the names of indoor units. (If no schedule group has been registered)
Use the "Maintenance" - "Indoor unit master" screen to register Indoor unit names.

· Schedule time :Displays scheduled times. Up to 20 can be set.
When the scheduled time is reached, the indoor unit settings are changed according to the set items.

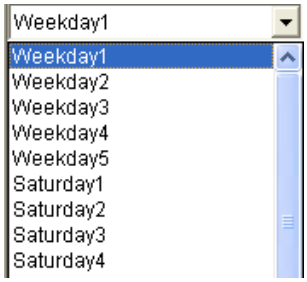
* Schedule time registrations can only be applied to the main unit. Sub-units turn on and off according to the schedule of the main unit.
* The underlined display (08:00) of set items indicates that other related items have also been set, such as modes other than On/Off and set temperatures.
* Consult your dealer or service provider about registering or changing the indoor unit master.

4-14-1. Registering schedule times

4-14-1-1. Mode selection

Select the mode for registering the schedule. Settings for schedule time are made for each operation mode.

Click on ▼ on the right side of the mode name display to display the list of mode names.

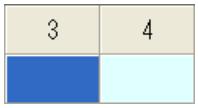


Click to select the mode number to register, with reference to the mode list.

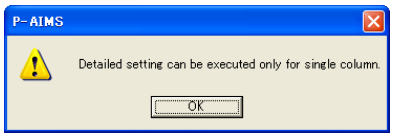
* Use the "Schedule" – "Mode Setting (calendar)" screen to register mode names.

4-14-1-2. Setting schedule times

Click on the cell to set the schedule for. The background turns blue.

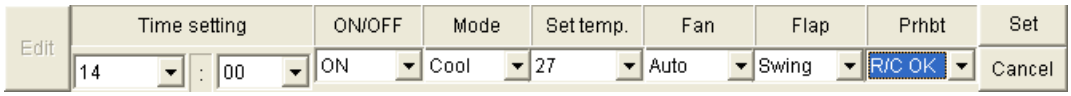


* Drag the mouse down a column to select multiple setting cells.
* Click on the item name area for 1–20 to select all in the column.
* It is only possible to select multiple cells when all are in the same column. A message will be displayed if you select multiple columns, or a horizontal row, and click on the Edit button.



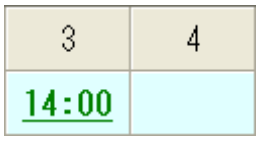
Click on the Edit button to enable registration of detailed settings.

Set the set times, modes, set temperatures, fan speeds, flaps and prohibitions.
Click on the button on the right of each cell to display the list.
Select the item to set.



* There is no need to set all items. Only set the items required.
  However, time-related settings are required.

Once you have finished editing the detailed settings, click on the Set button.



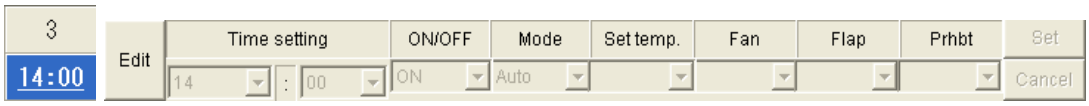
The time is set.
If cells in multiple rows are selected, the time will be set to all selected rows.

Click on the Cancel button to cancel detailed settings.

* When making time settings, start from earlier times and proceed to later times. It is not possible to set the same time of an existing setting.
  Example
  10:00 On: :17:00 On
  With the scheduled operation time settings as shown in the example above, it is only possible to set times between the existing times in the range of 10:01–16:59.

4-14-1-3. Confirming schedule time settings

If you select a time cell with a scheduled time setting, the current settings are displayed in gray in the detailed settings column.



4-14-2. Edit function

4-14-2-1. Editing schedule times

Use the edit button in the upper right of the screen to edit schedule times.

Copy :Select by clicking on the time cell to copy. Click on the Copy button to store the selected time cell in memory.

Paste :Select the time cell to paste, then click on the Paste button to paste the copied time.

Clear :Select the time cell to clear, then click on the Clear button to clear the registered time.

* Pasting into the time cell for the same indoor unit is not possible because the times would be the same for the unit.
* Even on a different indoor unit, pasting is impossible if there is an existing registration for the same time or an earlier time.

4-14-3. Saving changed data

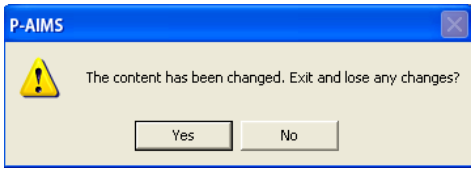
If the scheduled operation time has been changed, click on the Register button in the right side of the screen to save the settings. All changed data is saved.

Click on the Cancel button to return all changed data to its previous state.

* The Register and Cancel buttons become available once the schedule times are edited.
* If the Cancel button is clicked, the schedule times revert to the settings before the edit.

4-14-4. Change confirmation

If you have changed the scheduled operation times and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



Click on the Yes button to discard changes and switch screens.

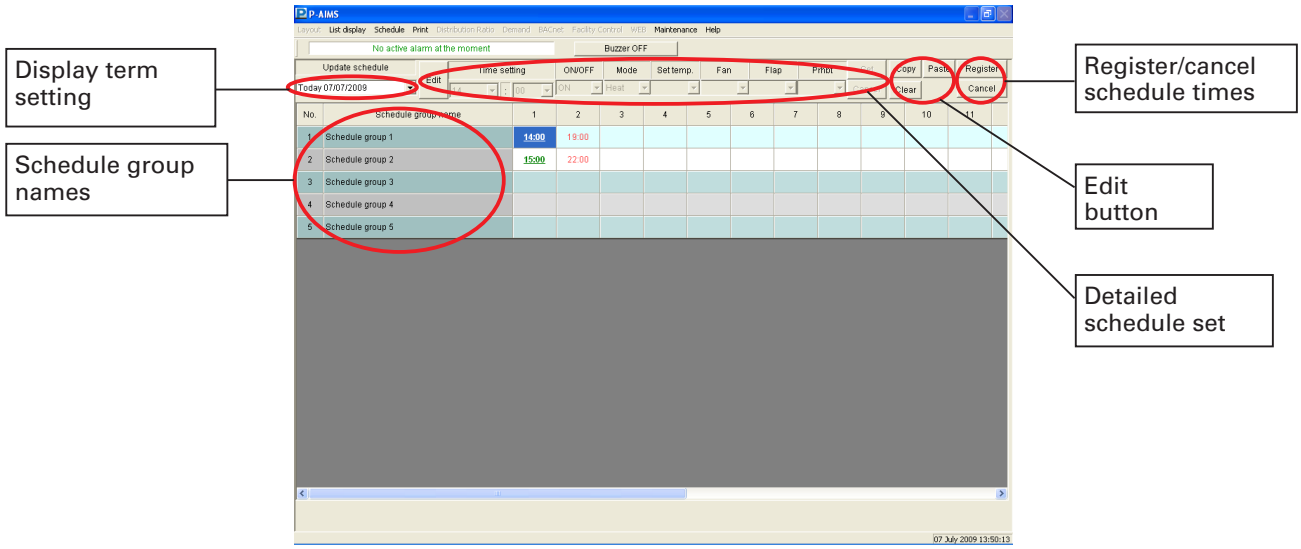
Click on the No button to continue using this screen.

4-15. Schedule Changes

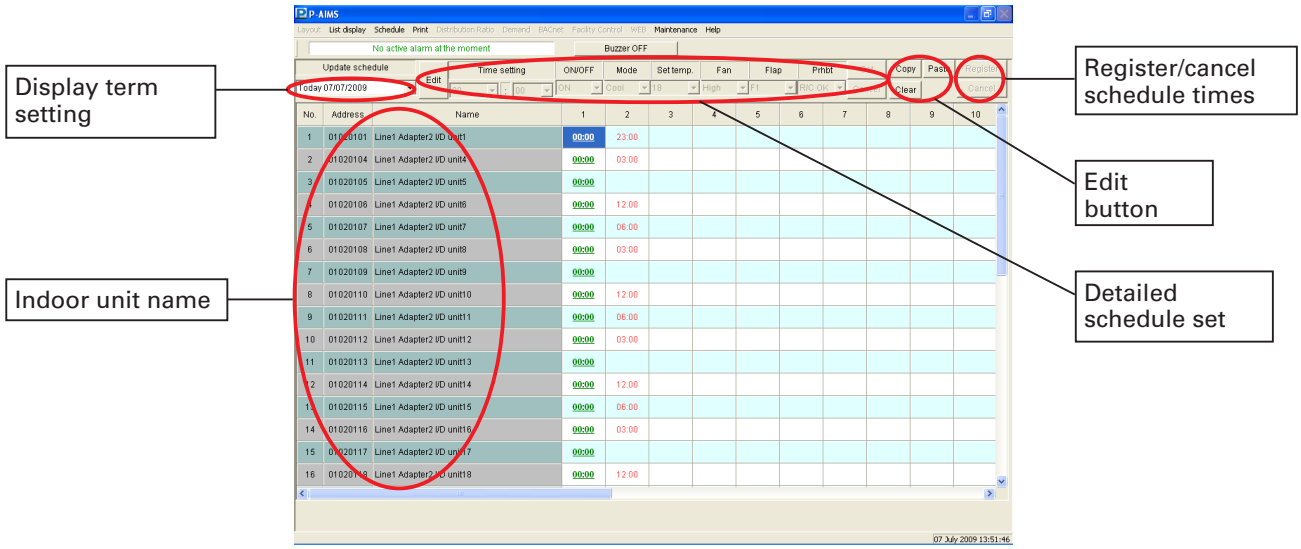
[Procedure]
On the menu bar, select “Schedule” – “Update Schedule”.

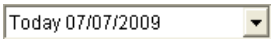
Check and change scheduled operating times for the same day, next day and day after that. The screen varies depending on whether or not you have registered a schedule group under “Maintenance” - “Register schedule group name”. If you have registered a schedule group, use the “Maintenance” - “Indoor unit master” screen to assign indoor units to groups. If you have not registered any schedule groups, settings must be made for individual indoor units, so assignment setup is not required.

The screen if you have registered schedule groups



The screen if you have not registered schedule groups



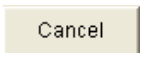


:Select the date to change. (The same day, next day, and day after that can be specified).

:Sets schedule times and other details.

:Use for editing schedule times. (Use for copying, pasting and clearing setting content).

:Registers the changed content.



:Restores all changed data to its previous states.

Key

· Schedule group name :Displays the schedule group name. (If a schedule group has been registered)
Use the “Maintenance” - “Register schedule group name” screen to register schedule groups.
Use the “Maintenance” - “Indoor unit master” screen to assign indoor units to groups.

· Address :Displays the address numbers of indoor units. (If no schedule group has been registered)

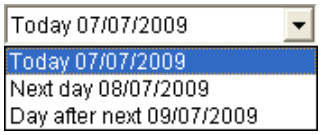
· Name :Displays the names of indoor units. (If no schedule group has been registered)
Use the “Maintenance” - “Indoor unit master” screen to register Indoor unit names.

· Schedule time :Displays scheduled times. Up to 20 can be set.
When the scheduled time is reached, the indoor unit settings are changed according to the set items.

* Schedule time registrations can only be applied to the main unit. Sub-units turn on and off according to the schedule of the main unit.
* The underlined display (08:00) of set items indicates that other related items have also been set, such as modes other than On/Off or set temperatures.
* Consult your dealer or service provider about registering or changing the indoor unit master.

4-15-1. Display method

Click on the button for the cell with the date displayed at the upper left of the screen to display the dates for that day and the next two days.



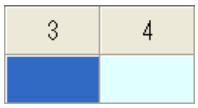
Select the term to display.

Schedule times are displayed for the specified date.

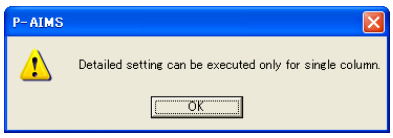
4-15-2. Registering schedule times

4-15-2-1. Setting schedule times

Click on the cell to set the time for. The background turns blue.



* Drag the mouse down a column to select multiple setting cells.
* Click on the item name area for 1–20 to select all in the column.
* It is only possible to select multiple cells when all are in the same column. A message will be displayed if you select multiple columns, or a horizontal row, and click on the Detailed Settings button.

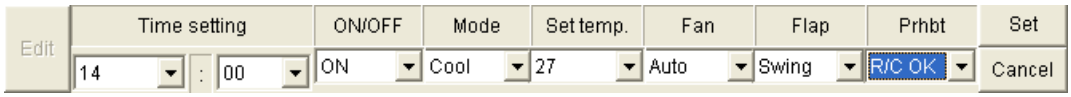


Click on the Edit button to enable registration of detailed settings.

Set the set times, modes, set temperatures, fan speeds, flaps and prohibitions.

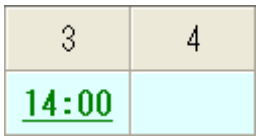
Click on the ▼ button on the right of each cell to display the list.

Select the item to set.



* There is no need to set all items. Only set the items required. However, time-related settings are required.

Once you have finished editing the detailed settings, click on the Set button.



The time is set.
If multiple cells are selected, the time will be set to all selected columns.

Click on the Cancel button to cancel detailed settings.

* On and Off settings form pairs in schedule times, but to use only On or only Off, set a time for either On or Off.
* When making time settings, start from earlier times and proceed to later times. It is not possible to set the same time of an existing setting.
  Example
  10:00 On: :17:00 On
  With the scheduled operation time settings as shown in the example above, it is only possible to set times between the existing times in the range of 10:01–16:59.
* Settings cannot be made for times that have already passed.

4-15-2-2. Confirming schedule time settings

If you select a time cell with a scheduled time setting, the current settings are displayed in gray in the detailed settings column.

4-15-3. Edit function

4-15-3-1. Editing schedule times

Use the edit button in the upper right of the screen to edit schedule times.

Copy :Select by clicking on the time cell to copy. Click on the Copy button to store the selected time cell in memory.

Paste :Select the time cell to paste, then click on the Paste button to paste the copied time.

Clear :Select the time cell to clear, then click on the Clear button to clear the registered time.

* Pasting into the time cell for the same indoor unit is not possible because the times would be the same for the unit.
* Even on a different indoor unit, pasting is impossible if there is an existing registration for the same time or an earlier time.

4-15-4. Saving changed data

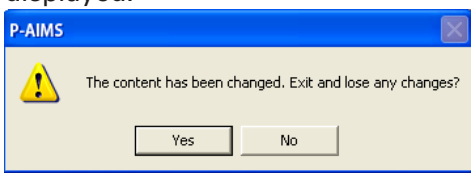
If the scheduled operation time has been changed, click on the Register button in the right side of the screen to save the settings. All changed data is saved.

Click on the Cancel button to return all changed data to its previous state.

* The Register and Cancel buttons become available once the schedule times are edited.
* If the Cancel button is clicked, the schedule times revert to the settings before the edit.

4-15-5. Change confirmation

If you have changed the scheduled operation times and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



Click on the Yes button to discard changes and switch screens.

Click on the No button to continue using this screen.

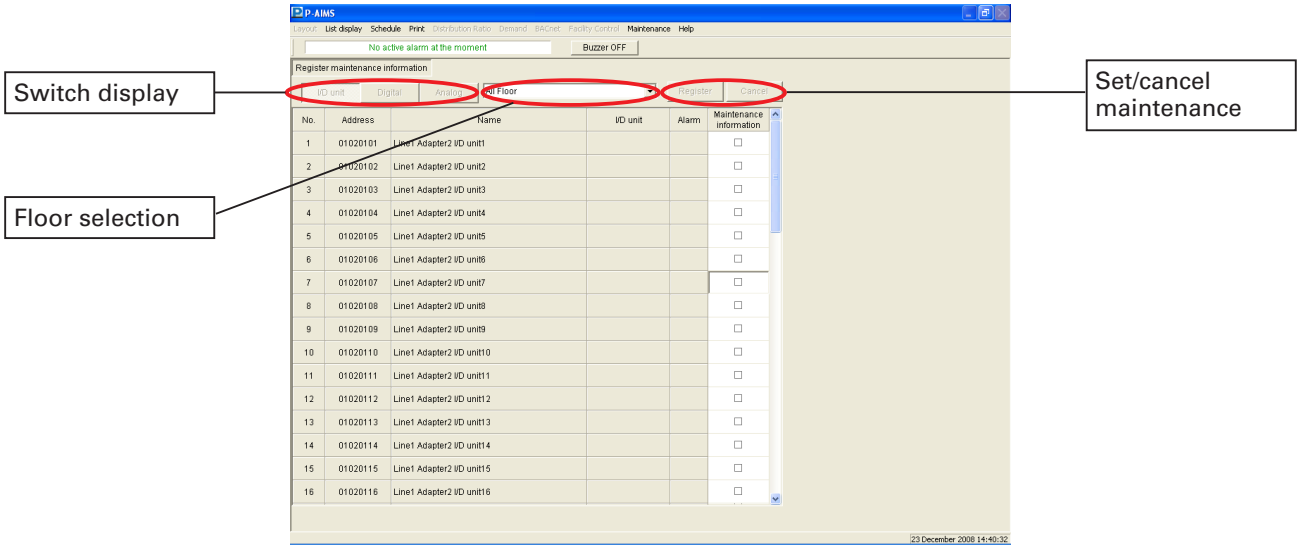
4-16. Register Maintenance Information

[Procedure]
On the menu bar, select “Maintenance” – “Register maintenance information”.
(Password level 1)

Make maintenance settings in order to temporarily suspend monitoring due to mechanical work or device malfunctions.

On/Off operation and warning display are disabled for devices registered for maintenance.

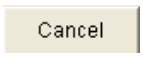
This screen is also used for canceling maintenance.



:Switches the display.
(Enabled when the optional Facility Control software has been installed).

:Use to select floor areas.

:Registers the set content.



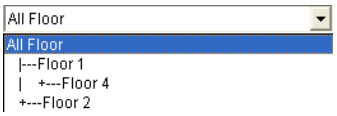
:Reverts to the previously registered content.

Key

· Address :Displays the addresses of indoor units.
· Name :Displays the names of the indoor units.
Normal: black, W/O connection: red
· I/D unit :Displays the codes of indoor units.
· Alarm :Displays alarm codes currently in effect.
· Maintenance information :Set whether or not to register maintenance information.
Add a check mark to items for maintenance registration.

4-16-1. Display method

4-16-1-1. Selecting displayed floor and area



If the floor and area is “All”, all registered indoor units are displayed. Click on the ▼ button on the right edge of the floor selection list to display a list of registered floors and areas.

From the list, select the floor or area to monitor. A list of indoor units registered within that floor and area is displayed.

4-16-2. Maintenance settings

4-16-2-1. Maintenance settings

Click on the register maintenance information column for devices that are not set for maintenance. They will then have a check mark in the register maintenance information column, so monitoring and control will not be applied, even if an alarm occurs. The buzzer will not sound if an alarm occurs.

4-16-2-2. Cancel maintenance

Click on the register maintenance information column for devices that are set for maintenance. The check mark will be removed from the register maintenance information column, and they will revert to normal monitoring. All operations will be enabled.

4-16-2-3. Registering changed data

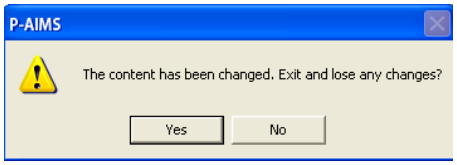
Register button to register changes. All changed data is registered.

4-16-2-4. Deleting settings

Click on the Cancel button to revert to the previously registered state.

4-16-3. Change confirmation

If you have changed the maintenance settings and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



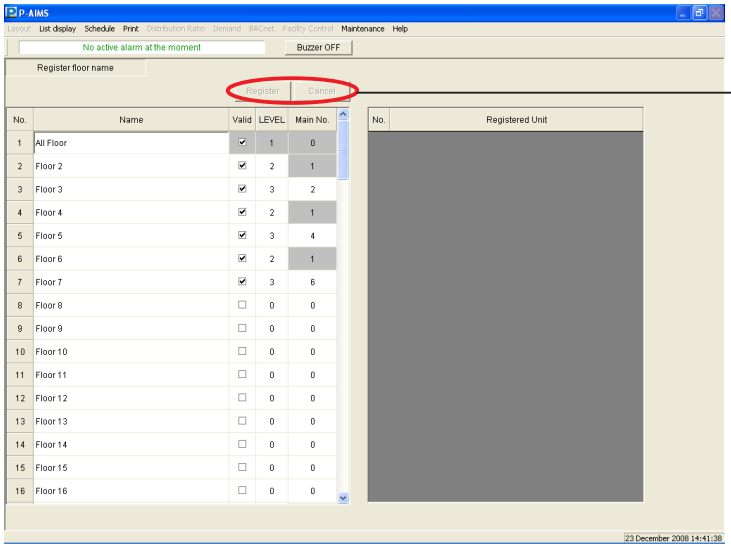
Click on the Yes button to discard changes and switch screens.

Click on the No button to continue using this screen.

4-17. Floor Name Registration

[Procedure]
On the menu bar, select “Maintenance” – “Register floor name”.
(Password level 1)

Register floor levels in order to select floors and areas for status monitoring and control, for filter and indoor unit information, schedule and results, and other information.



Register :Register settings.

Cancel : Reverts to the previously registered state.

Key

· Name :Displays the floor names.
· Valid :Sets valid/invalid.
· Level :Sets floor levels.
· Main No. :Set the number for main.

4-17-1. Display method

4-17-1-1. Confirmation of indoor units included in each floor

Click on a registered floor name to display a list of indoor units registered on that floor in the indoor unit column on the right side of the screen.

4-17-2. Floor registration

4-17-2-1. Changing floor names

Double click to change the name of a floor. It is also possible to change part of the name of a previously-registered floor. To change the entire name, just type in the name. The existing name will be deleted and the new name displayed.

Once the name has been changed, click on the Register button to register it. Click on the Cancel button to revert to the previously registered state.

4-17-2-2. Enable/disable settings

To enable the registered content, click in the Enable space to add a check mark.

Click there again to remove the check mark, disabling the setting.

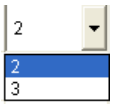
* The Level and Main No. cannot be set if the floor is not enabled.

4-17-2-3 Level setting

Click in the Level cell to display the button, then click on it. The list for selecting levels appears. Make a selection. The selectable levels are 2 and 3.

* Level 1 is used for overall display, so it cannot be selected.
* When setting Level, set to Enable.
* Settings cannot be changed where the Level cell is grayed out.

4-17-2-4. Main No. setting



Click in the Main No. cell to display the button, then click on it.

A list of Main numbers is displayed, so specify the relevant Main No.

* If Level 2 was set, the Main No. is set unconditionally to 1 and cannot be changed.
* When setting the Main No., set to Enable.
* Settings cannot be changed for cells where the Main No. is grayed out.

4-17-2-5. Registering changed data

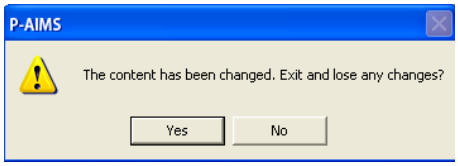
Register button to register changes. All changed data is registered.

4-17-2-6. Deleting settings

Click on the Cancel button to revert to the previously registered state.

4-17-3. Change confirmation

If you have changed floor name content and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



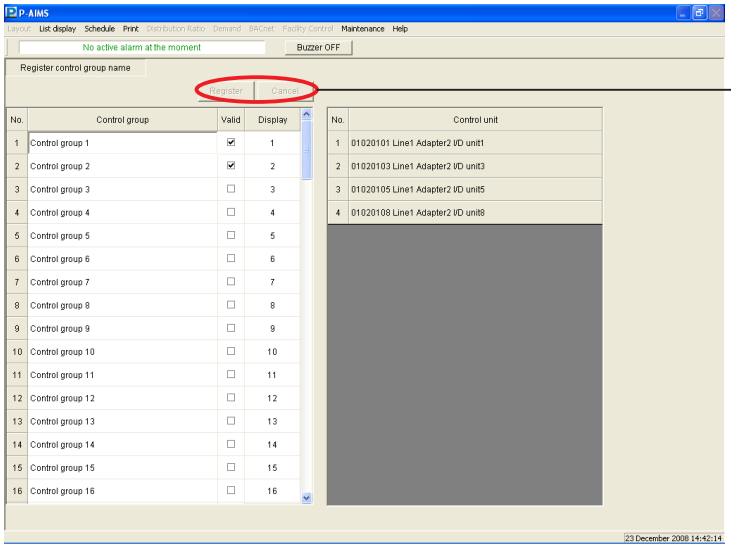
Click on the Yes button to discard changes and switch screens.

Click on the No button to repeat the operation on this screen.

4-18. Register control group name

[Procedure]
On the menu bar, select “Maintenance” – “Register control group name”.
(Password level 1)

Control groups can be registered. Indoor units included in the control group can also be registered.



Register :Register settings.

Cancel :Reverts to the previously registered state.

Key

· Control group :Displays the control group names.
· Valid :Sets valid/invalid.
· Display :Displays the order in which the control groups are displayed.

4-18-1. Display method

4-18-1-1. Confirmation of indoor units included in control group

Click on a registered control group to display a list of indoor units registered on that group in the indoor unit column on the right side of the screen.

4-18-2. Registering control groups

4-18-2-1. Changing control group names

Double click to change the name of a control group. It is also possible to change part of the name of a previously-registered control group. To change the entire name, just type in the name. The existing name will be deleted and the new name displayed.

Once the name has been changed, click on the Register button to register it. Click on the Cancel button to revert to the previously registered state.

4-18-2-2. Enable/disable settings

To enable the registered content, click in the Enable space to add a check mark.

Click there again to remove the check mark, disabling the setting.

4-18-2-3. Registering changed data

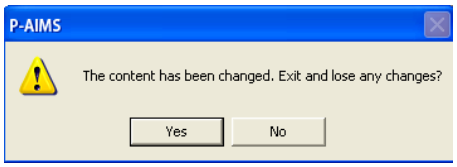
Register button to register changes. All changed data is registered.

4-18-2-4. Deleting settings

Click on the Cancel button to revert to the previously registered state.

4-18-3. Change confirmation

If you have changed the control groups and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



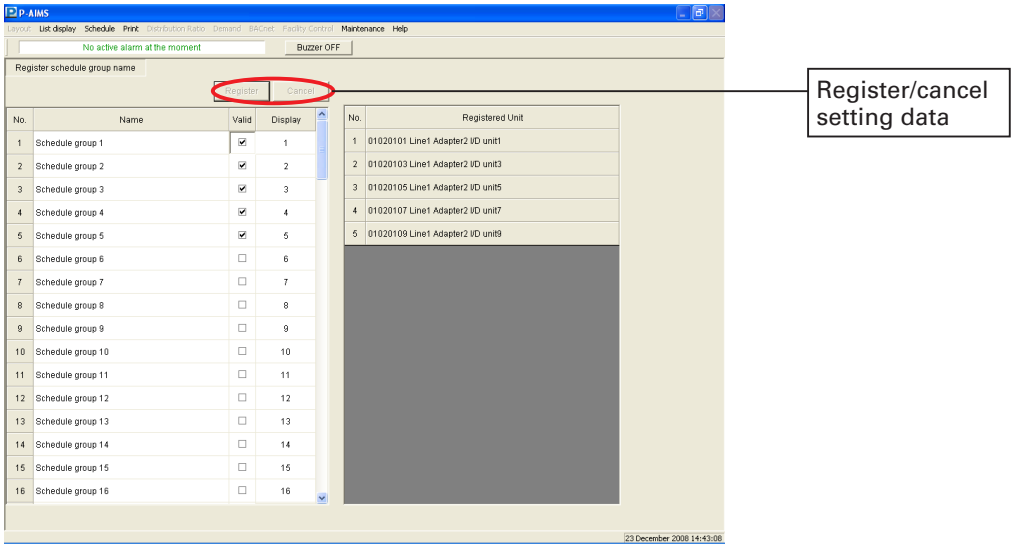
Click on the Yes button to discard changes and switch screens.

Click on the No button to continue using this screen.

4-19. Register Schedule Group Names

[Procedure]
On the menu bar, select “Maintenance” – “Register schedule group name”.
(Password level 1)

Register schedule groups.



Register :Register settings.

Cancel :Revert to the previously registered state.

Key

· Name :Displays schedule group name.
· Valid :Sets enabled/disabled.
· Display :Displays the order in which the schedule groups are displayed.

4-19-1. Display method

4-19-1-1. Confirmation of indoor units included in each schedule group

Click on a registered schedule group to display a list of indoor units registered on that group in the indoor unit column on the right side of the screen.

4-19-2. Registering schedule groups

4-19-2-1. Changing schedule group names

Double click to change the name of a schedule group. It is also possible to change part of the name of a previously-registered schedule group. To change the entire name, just type in the name. The existing name will be deleted and the new name displayed.

Once the name has been changed, click on the Register button to register it. Click on the Cancel button to revert to the previously registered state.

4-19-2-2. Enable/disable settings

To enable the registered content, click in the Enable space to add a check mark.

Click there again to remove the check mark, disabling the setting.

4-19-2-3. Registering changed data

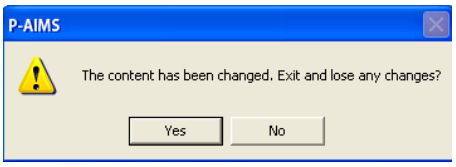
Click on the Register button to register changes. All changed data is registered.

4-19-2-4. Deleting settings

Click on the Cancel button to revert to the previously registered state.

4-19-3. Change confirmation

If you have changed the schedule group and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



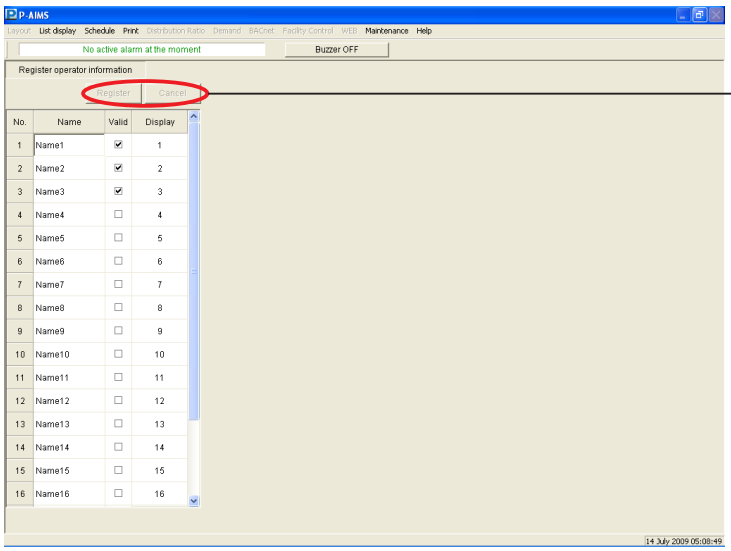
Click on the Yes button to discard changes and switch screens.

Click on the No button to continue using this screen.

4-20. Register operator information

[Procedure]
On the menu bar, select “Maintenance” – “Register operator information”.
(Password level 1)

Register operator names.



Register :Register settings.

Cancel :Revert to the previously registered state.

Key

· Name :Displays the operator names.
· Valid :Sets enabled/disabled.
· Display :Displays the order in which the operator names are displayed.

4-20-1. Registering operators

4-20-1-1. Changing operator names

Double click to change the name of an operator. Previously registered operator names can be partially changed. To change the entire name, just type in the name. The existing name will be deleted and the new name displayed.
Once the name has been changed, click on the Register button to register it.
Click on the Cancel button to revert to the previously registered state.

4-20-1-2. Enable/disable settings

Valid

To enable the registered content, click in the Enable space to add a check mark.
Click there again to remove the check mark, disabling the setting.

4-20-1-3. Registering changed data

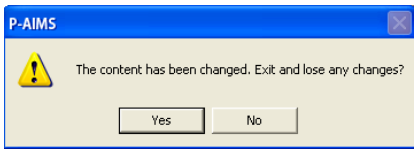
Click on the Register button to register changes. All changed data is registered.

4-20-1-4. Deleting settings

Click on the Cancel button to revert to the previously registered state.

4-20-2. Change confirmation

If you have changed the operator names and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



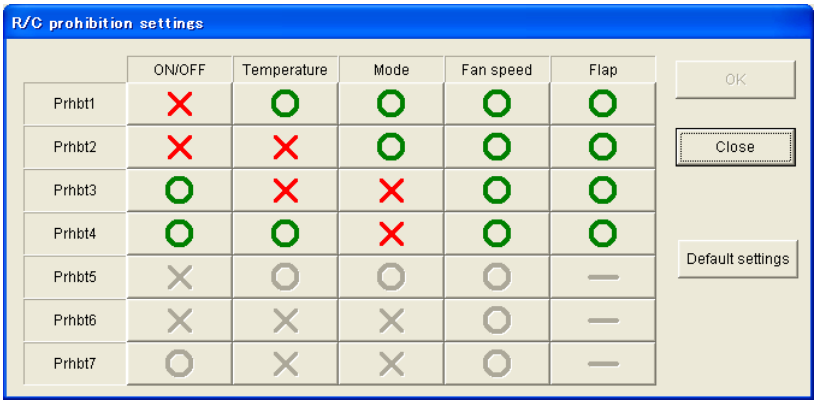
Click on the Yes button to discard changes and switch screens.

Click on the No button to continue using this screen.

4-21. R/C prohibition settings

[Procedure]
On the menu bar, select “Maintenance” – “R/C prohibition settings”.
(Password level 1)

Set the prohibition items for each central control mode, which the central system (P-AIMS) uses to prohibit the remote control units of indoor units from exercising control functions.



The image above shows the initial values.

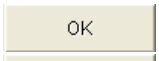
:Indicates prohibition. (This mark can be changed)

:Indicates prohibition. (This mark cannot be changed)

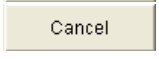
:Indicates permission. (This mark can be changed)

:Indicates permission. (This mark cannot be changed)

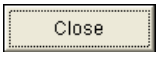
:Initializes central control mode.



:Registers changes to settings.



:Restores changes to their previous settings.



:Closes the window.

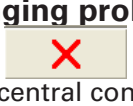
Central control mode display

Prohibit 1: The remote control unit cannot be used for switching On/Off. (The mode can be changed)
Prohibit 2: The remote control unit cannot be used for switching On/Off, temperature setting and operation mode switching. (The mode can be changed)
Prohibit 3: The remote control unit cannot be used for temperature setting and operation mode switching. (The mode can be changed)
Prohibit 4: The remote control unit cannot be used for operation mode switching. (The mode can be changed)
Prohibit 5: The remote control unit cannot be used for switching On/Off. (The mode cannot be changed)
Prohibit 6: The remote control unit cannot be used for switching On/Off, temperature setting and operation mode switching. (The mode cannot be changed)
Prohibit 7: The remote control unit cannot be used for temperature setting and operation mode switching. (The mode cannot be changed)

* Prohibit 1–4 are for the CZ-CFUNC2.

4-21-1. Control method

4-21-1-1. Changing prohibition settings (affects prohibit 1 – 4)

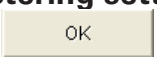
Click on the  button and the button to switch the display and change the central control functions.
It is not possible to switch the display by clicking on the and buttons.

4-21-1-2. Initializing prohibition settings

To initialize control mode for prohibitions 1 – 4 as well, click on the

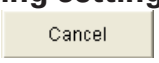
button. The central control mode initializes.

4-21-1-3. Registering settings

Click on the 

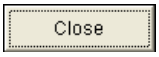
button to register the changed content.

4-21-1-4. Deleting settings

Click on the 

button to revert to the previously registered state.

4-21-1-5. Close the screen

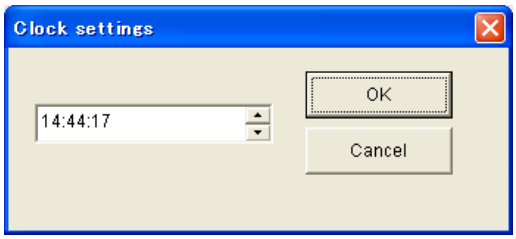
Click on the 

button to close the screen.

4-22. Clock setting

[Procedure]
On the menu bar, select “Maintenance” – “Clock setting”.

Set the system time.



4-22-1. Clock setting method

Click on the location to correct in the hh:mm:ss display to display the cursor there. Use the up and down arrow buttons at the cursor position to raise or lower the time value there.

4-22-2. Setting

Click on the OK button on the right of the screen to save the time setting and close this screen.
Time is gradually corrected by a separate program, so the change is not applied immediately.
The settings are not saved if you click on the Cancel button. This screen closes.

* Time is corrected at a rate of 100ms per second. (6s per minute, 60s per ten minutes)

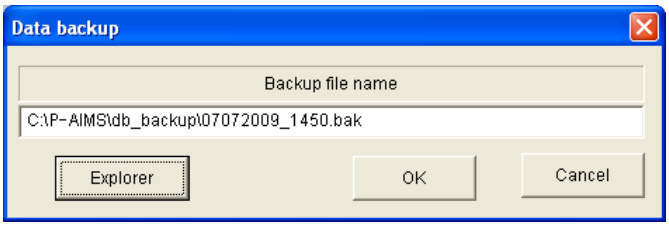
4-23. Data backup and restoration

Perform system maintenance tasks such as data backup and restoration.

4-23-1. Data backup

[Procedure]
On the menu bar, select “Maintenance” – “Data backup/restore – Data backup”. (Password level 2)

Make backups of all data. The default file name is automatically the numerals for “yyyymmdd_hhmm”, with the extension of bak for the database, ini_backup for initialization files, and reg_backup for the registry.

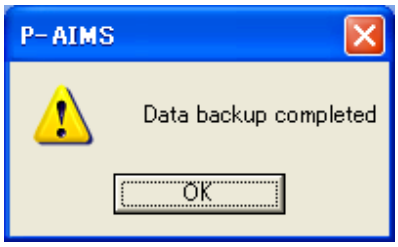


OK :Make backups of data.

Cancel :Exit.

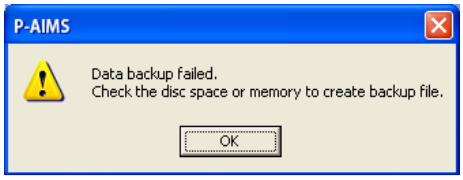
Exploler :Use to change the save folder.

4-23-1-1. Starting data backup



Click on the OK button to backup data. The message “Executing data backup...Please wait” is displayed as the backup data is saved.
Once the backup is complete, a message such as that on the left is displayed. Click on the OK button.
The data backup process is complete.

* The message on the right is displayed if the backup fails. Check the available free space on the backup storage drive, etc.
  Click on the OK button to go back to Data Backup.



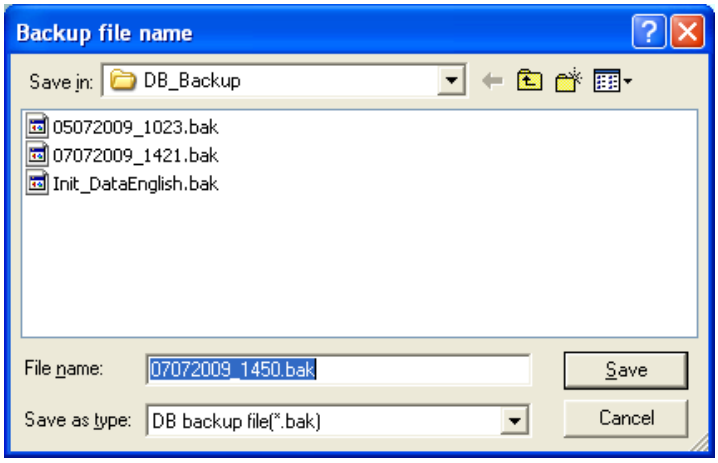
* If the extension is changed, the data cannot be used for data restoration, so change extensions with caution.

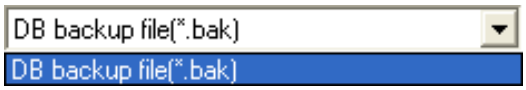
4-23-1-2. Deleting

Click on the Cancel button to exit without saving the backup.

4-23-1-3. Changing the save destination

Click on the Exploler button to display the “Backup file name” screen and change the save folder.





Click on the button beside “Save in:” to display a folder list as shown on the left. Select the required folder from the folder list.

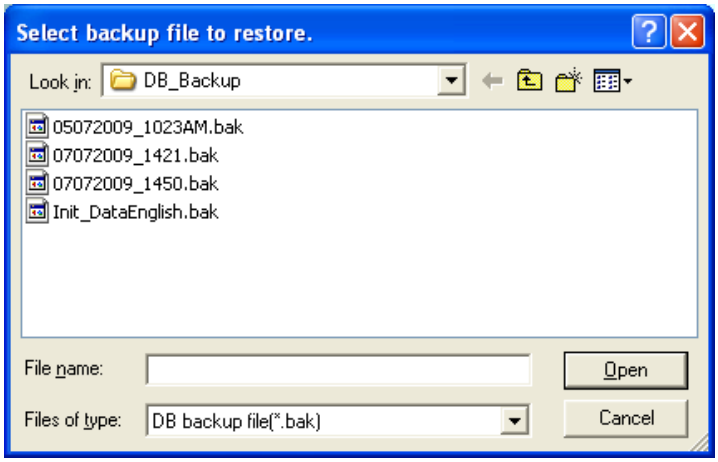
Click on the Save button to apply the selected save destination and return to the Data Backup screen.

Click on the Cancel button to return to the Data Backup screen without doing anything.

4-23-2. Data restoration

[Procedure]
On the menu bar, select “Maintenance” – “Data backup/restore – Restore data”. (Password level 2)

Use the files created at the data backup stage in a process to return the system to its state at the time the data was backed up. That process means that all data generated between the time the data was last backed up and the time of restoration is lost, so proceed with caution.



Open :Specify the file name.

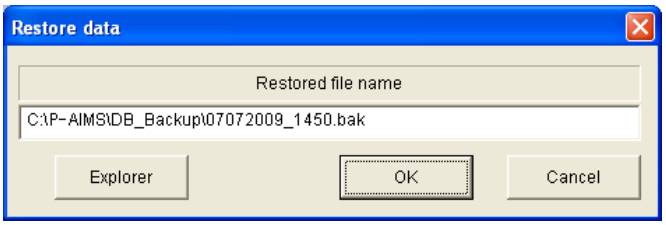
Cancel :Exit.

4-23-2-1. Start data restoration

On the “Select backup file to restore” screen, click on the file name to restore.

The specified file name is displayed in the “File name” space, then click on the Open button.

The Data Restore screen is displayed.

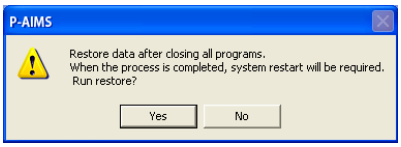


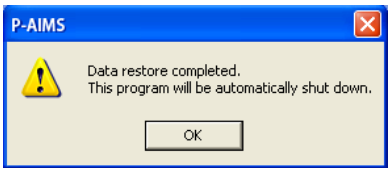
OK :Data is restored.

Cancel :Exit.

Exploler :Use this when you need to specify a different backup file.

4-23-2-1-1. Starting data restoration





To start data restoration, click on the OK button. A message reading “Restore data ...” is displayed.

Click on the No button to return to the Data Restore screen.

When you click on the Yes button, the message “Processing restore ... Please wait.” is displayed, and the restoration process starts.

Once the restoration is complete, a message such as that on the left is displayed.

Click on the OK button.

Exit the P-AIMS system.

Restart the P-AIMS system.

The data restoration process is complete.

4-23-2-1-2. Canceling data restoration

Click on the Cancel button to exit without restoring data.

4-23-2-1-3. Re-specifying the data restoration file

Click on the Exploler button to re-display the “Select backup file to restore” screen.

* If the message “Data backup failed” is displayed during data restoration, it is possible that the database was partially restored and has lost integrity as a database.
  In that case, reboot Windows SP, start P-AIMS and repeat the data restoration.

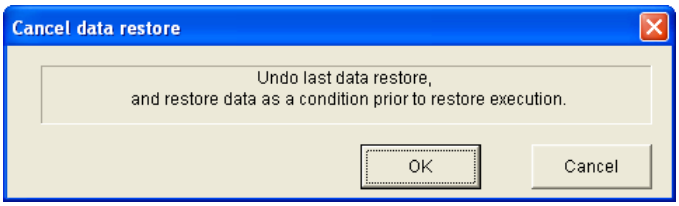
* If the message “Data backup failed” still appears, contact your dealer or service provider.

4-23-3. Canceling data restoration

[Procedure]
On the menu bar, select “Maintenance” – “Data backup/restore – Cancel data restore”.
(Password level 2)

Cancellation of data restoration is a function for returning the system to its state before the data restoration process. You cannot select from the menu without performing data restoration first.

* This is an auxiliary function for use when data has been restored.

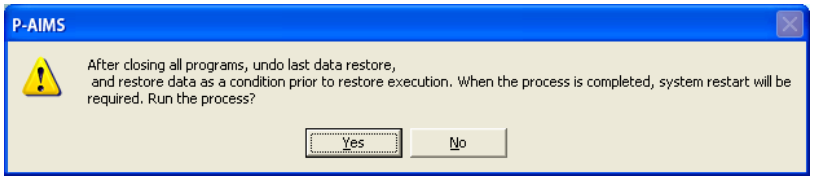


OK :Cancel data restoration.

Cancel :Exit.

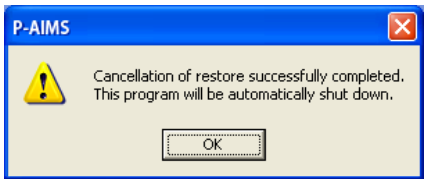
4-23-3-1. Starting cancellation of data restoration

To start cancellation of data restoration, click on the OK button. A message reading “After closing ...” is displayed.



Click on the No button to return to the Cancel Data Restore screen.

Click on the Yes button to display the message “Canceling restore ... Please wait.”.

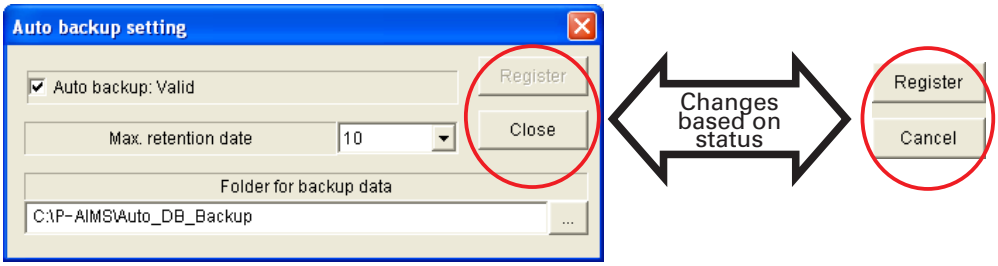


Once cancellation of the restoration process is complete, a message such as that on the right is displayed.
Click on the OK button. Exit the P-AIMS system. Restart the P-AIMS system. Cancellation of the data restoration process is complete.

4-23-4. Automatic backup settings

[Procedure]
On the menu bar, select “Maintenance” – “Data backup/restore – Auto backup settings”.
(Password level 2)

This function makes data backups automatically. The time set for the backup process is 00:10 each day.The file name is “Auto yyyymmdd”. File extensions are the same as for data backups. This is the form that can be used for data restoration.

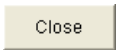


:Enables automatic backups.

:Specifies the saving period for backup files.

:Registers the set content.

:Reverts to the previously registered content.



:Closes the window.

:Changes the backup creation folder.

4-23-4-1. Enable/disable automatic backup

To enable the automatic backup setting, click on

, and add the check mark. Saving is enabled with the check mark added. Click again to remove the check mark.

4-23-4-2. Setting the maximum storage term

Set the maximum duration for storing backup files.

Click on the area of

to display the pulldown menu.

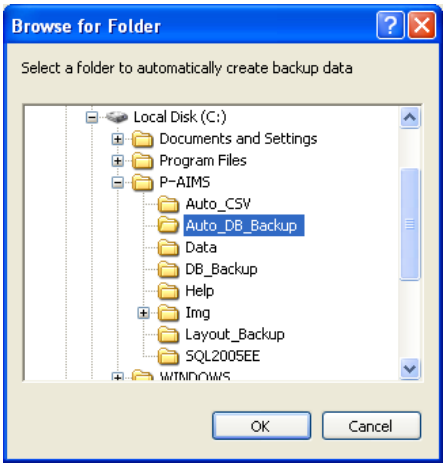
Select from the menu. In this illustration, the specification is to store data for 100 days.

Data more than 100 days old is deleted.

The options on the pulldown menu for numbers of days to specify are “1, ..., 9, 10,..., 90, 100, 200, 300, 400”.

4-23-4-3. Changing the backup creation folder

Click on the ··· button to display the Browse Folder screen, to change the folder in which files are saved.



Click on the OK button to apply the selected save destination and return to the Automatic Backup Settings screen.

Click on the Cancel button to return to the Automatic Backup Settings screen without doing anything.

4-23-4-4. Registering settings

Click on the Register button to register the set content.

4-23-4-5. Deleting settings

Click on the Cancel button to delete the set content and revert to the previously registered content.

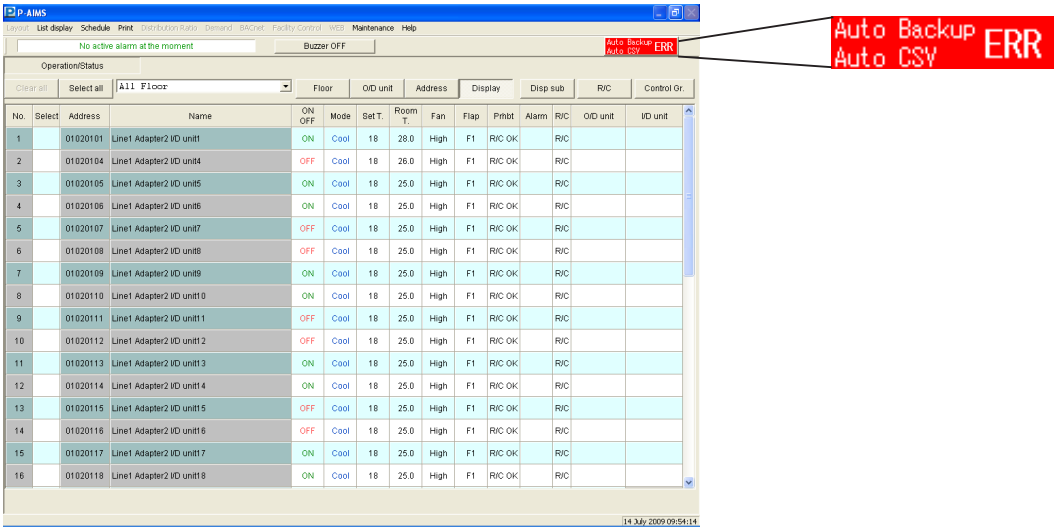
4-23-4-6. Deleting

Click on the Close button to close the Automatic Backup Settings screen.

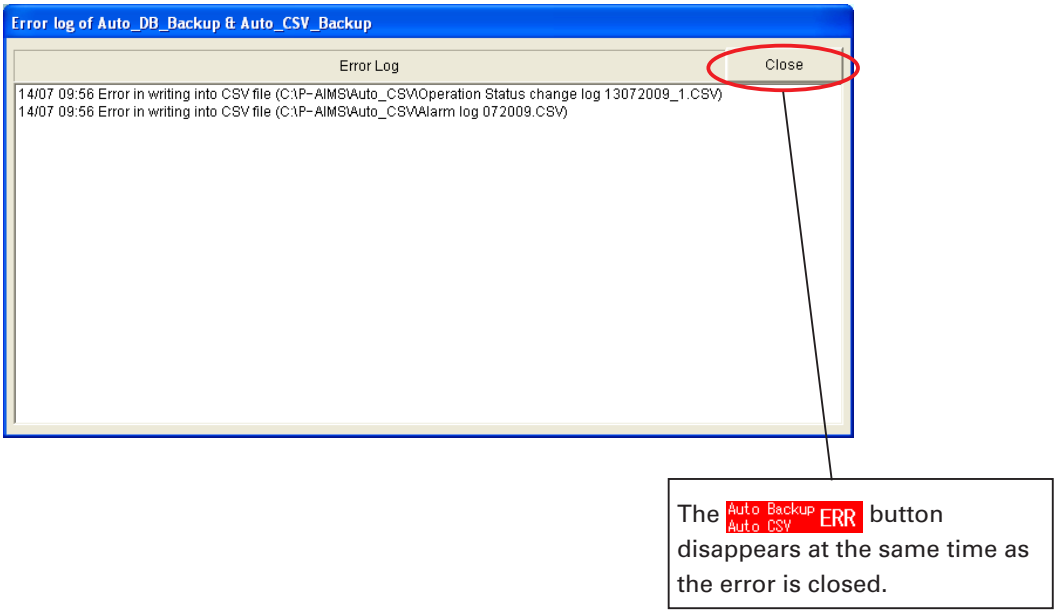
* The Cancel and Close buttons change to the Cancel button when making settings.
  Clicking on the Register or Cancel buttons changes them to the Close button.
* Unless a different save folder has been specified, automatic backup files are saved to the folder named Auto_DB_Backup in the folder where the P-AIMS system was installed (e.g. C:\P-AIMS).

4-23-4-7. Troubleshooting if saving does not work

If an error occurs while the backup file is being saved, a red button marked “Auto Backup, Auto CSV ERR” is displayed in the upper right of the screen.



Click on the Auto Backup Auto CSV ERR button to display the “Error log of Auto_DB_Backup & Auto_CSV_Backup” screen and the content of the error.



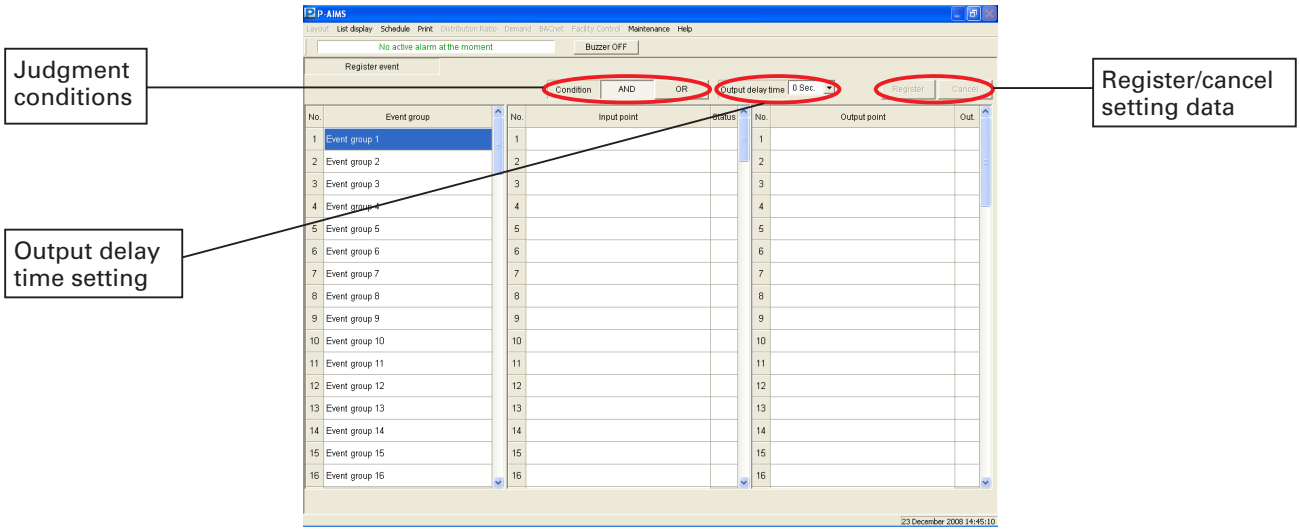
The Auto Backup Auto CSV ERR button disappears at the same time as the error is closed.

* If this button is displayed, an error may have occurred on the storage disk. Refer to the instruction manual for the device concerned and take appropriate action.

4-24. Register Event

[Procedure]
On the menu bar, select “Maintenance” – “Register event”.
(Password level 2)

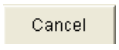
Register event processes for automatic control. Linked control will be performed according to the input conditions.



:Register settings.

:Set the delay time for output.

:Register settings.



:Revert to the previously registered state.

Key
Event group
· Event group :Displays event group names.
Input point
· Input point :Specifies the input device.
· Status :Sets the On/Off status.
Output point
· Output point :Specifies the output device.
· Out. :Turns output On/Off.

4-24-1. Display method

4-24-1-1. Event group display

Click on an event group name to display conditions related to the event control group, such as input point, status, output point, output, judgment conditions and output delay time.

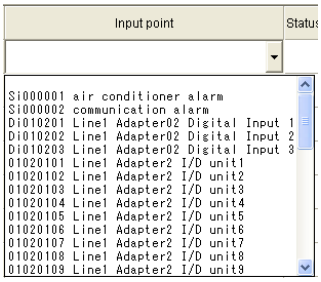
4-24-2. Registering event groups

4-24-2-1. Changing event group names

Double click to change the name of an event group. It is also possible to change part of the name of a previously-registered event group. To change the entire name, just type in the name. The existing name will be deleted and the new name displayed. Once the name has been changed, click on the Register button to register it. Click on the Cancel button to revert to the previously registered state.

> * When the name is changed, it becomes impossible to change the input point, status, output point, output, judgment conditions, output delay time, and other settings. Click on the Register button after changing the name to register it. Changes in other settings will then become possible, so register again after any further changes.

4-24-2-2. Changing the input point



Set conditions for the input device.
Click in the input point box to display the button, then click on it. A list of input devices is displayed, so select the relevant device.

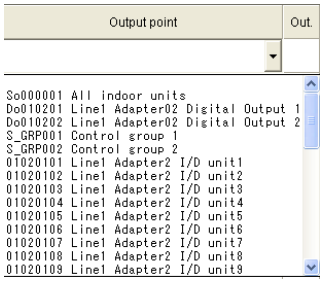
* Select the blank at the top of the list to delete the input point.

4-24-2-3. Changing status

Click in the Status box to display the button, then click on it.
A list is displayed for selecting On or Off, so specify the condition for the input device.

* If the input point is deleted and the change registered, the item concerned is automatically deleted.

4-24-2-4. Changing the output point



Set conditions for the output device.
Click in the Output Point box to display the button, then click on it. A list of output devices is displayed, so select the relevant device.

* Select the blank at the top of the list to delete the output point.

4-24-2-5. Changing output

Click in the Output box to display the button, then click on it.
A list is displayed for selecting On or Off, so specify the condition for the input device.

* If the output point is deleted and the change registered, the item concerned is automatically deleted.

4-24-2-6. Setting judgment conditions

: AND condition is applied. When multiple input points have been set and the status of all input points is satisfied, the event occurs and the output point is changed according to the output setting.

: OR condition is applied. When multiple input points have been set and the status of even one of the input points is satisfied, the event occurs and the output point is changed according to the output setting.

* If there is only one input point registered, it makes no difference to the conditions whether the setting is for AND or OR.

4-24-2-7. Changing output delay time

:Even if the input conditions are satisfied and the event occurs, output to the output point is delayed by the output delay time.

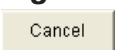
* An adapter is used for communications with the input and output devices, so such disturbances as communications delays may occur, and the actual delay time may exceed the one set.

4-24-2-8. Registering changed data

Click on the

button to register changes. All changed data is registered.

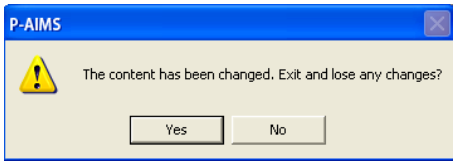
4-24-2-9. Deleting settings

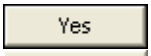
Click on the 

button to revert to the previously registered state.

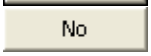
4-24-3. Change confirmation

If you have changed event content and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.



Click on the 

button to discard changes and switch screens.

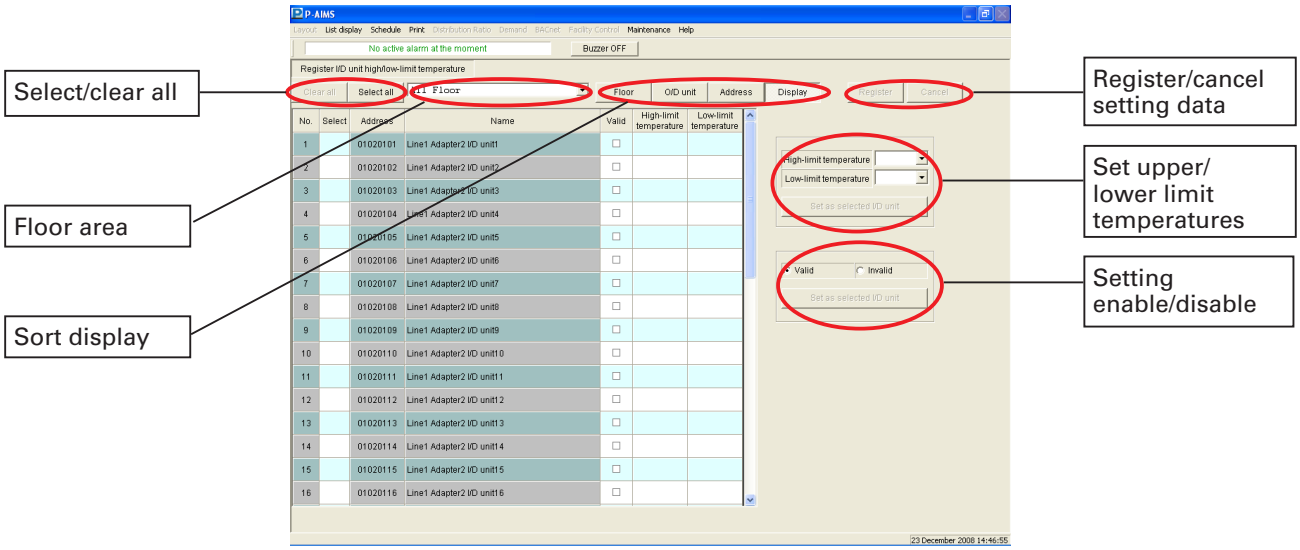
Click on the 

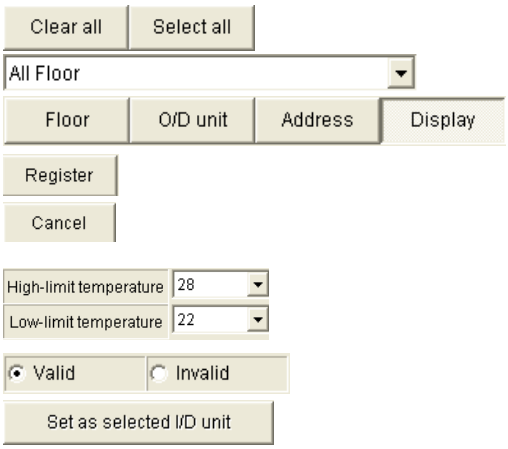
button to repeat the operation on this screen.

4-25. Register I/D unit upper/low-limit temperature

[Procedure]
On the menu bar, select “Maintenance” – “Register I/D unit high/low-limit temperature”.
(Password level 2)

Set upper and lower limit temperatures to restrict the set temperatures of indoor units.





:Use to clear all and select all.
:Use to select floor areas.
:Use to select the display order.
:Register settings.
:Revert to the previously registered state.

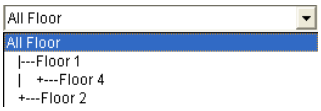
:Select the upper limit temperature/lower limit temperature.
:Set enabled/disabled.
:Apply the set values of upper limit temperature/lower limit temperature. Or, apply the enabled/disabled settings.

Key

· Select	:Selects the indoor unit to control. Click to add a check mark.
· Address	:Displays the address numbers of indoor units.
· Name	:Displays the names of the indoor units.
· Valid	:Sets enabled/disabled.
· High limit temperature	:Displays the upper limit temperatures of indoor units.
· Low-limit temperature	:Displays the lower limit temperatures of indoor units.

4-25-1. Display method

4-25-1-1. Selecting displayed floor and area



If the floor and area is “All”, all registered indoor units are displayed. Click on the ▼ button on the right edge of the floor selection list to display a list of registered floors and areas.
From the list, select the floor or area to monitor. A list of indoor units registered within that floor and area is displayed.

4-25-1-2. Sorting lists

Click on the Sort button to change the display order of a list. The currently pressed button is the one which determines the sort order.

Click on the buttons to change the list orders. If other buttons are pressed, the one that was clicked last is effective. The illustration above shows the list displayed in the indoor unit master order.

Floor	:Display is in order of floor name registration.
O/D unit	:Display is in ascending order of outdoor unit addresses.
Address	:Display is in ascending order of addresses.
Display	:Display is in order of most recent registrations to the indoor unit master.

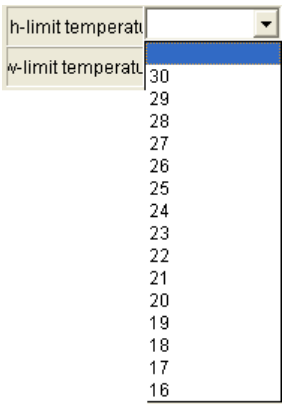
* Any button can be selected. It is not possible to select multiple buttons at the same time.

4-25-2. Control method

4-25-2-1. Indoor unit selection method

To set the upper and lower limit temperatures, first click on the name of the target indoor unit. The selected locations have ✓ check marks in the selection column.
Click again on the same location to remove the check mark, canceling the selection.
To select all indoor units, click on the Select all button in the upper left of the screen.
To cancel selections of all indoor units, click on the Clear all button in the upper left of the screen. The Clear all button cannot be used if nothing has been selected.
It is possible to select or deselect multiple indoor units by dragging around them with the mouse.
Unconnected units cannot be selected.

4-25-2-2. Setting upper and lower limit temperatures



To select upper and lower limit temperatures, click on the ▼ button to display the pulldown menu, then select a temperature in the range 16 – 30. Click on the desired temperature.
The temperature you clicked on is selected. Select the lower limit temperature in the same way. Once both the upper and the lower limit temperatures are set, click on the Set as selected I/D unit button. The upper and the lower limit temperatures are applied to all selected indoor units.

4-25-2-3. Enable/disable settings

To set enable/disable, click on either item to add a mark to it.

After setting enable/disable, click on the Set as selected I/D unit button. The selection is applied to all selected indoor units.

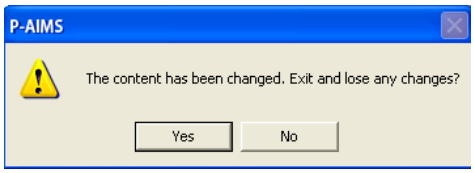
4-25-3. Saving changed data

If the upper or lower limit temperatures, or the enabled status, have been changed, click on the Register button in the upper right of the screen to save the settings. All changed data is saved.
Click on the Cancel button to return all changed data to its previous state.

* The Register and Cancel buttons become available once upper/lower limit, and enabled status are set.
* If the Cancel button is clicked, the settings revert to their values before the edit.

4-25-4. Change confirmation

If you have changed the scheduled operation times and attempt to switch to another screen without first saving the changes, the change confirmation message is displayed.

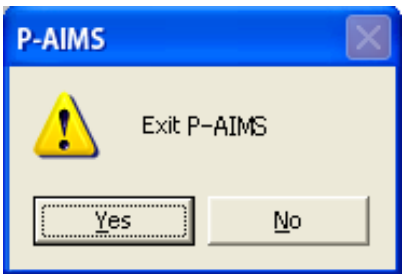


Click on the Yes button to discard changes and switch screens.
Click on the No button to continue using this screen.

4-26. Exit

[Procedure]
On the menu bar, select “Maintenance” – “Exit”.
(Password level 2)

Exit the system.



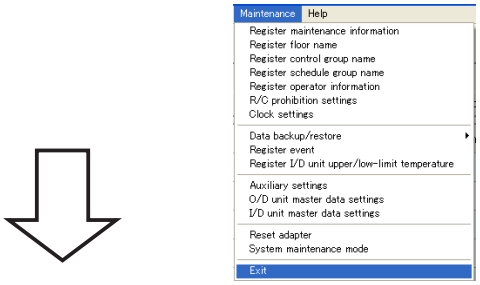
Click on the Yes button to exit the system.
Click on the No button to avoid exiting the system.

5. Supplementary Information

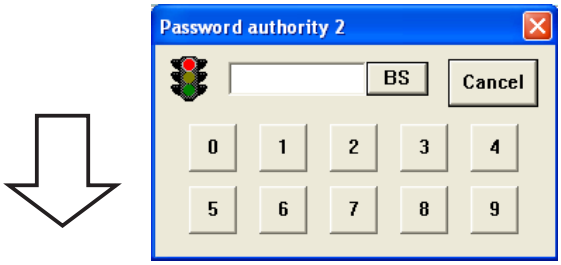
■ Powering the system off

Always use the following procedure to power the PC off.

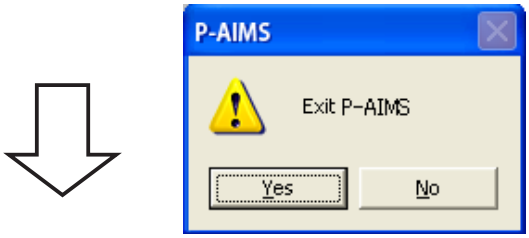
1. From the Menu bar, select “Maintenance” - “Exit”.



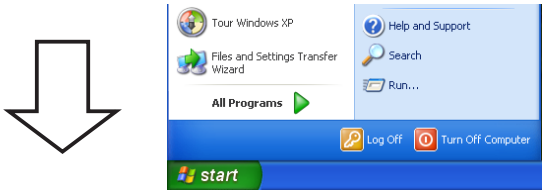
2. The Password Input screen is displayed. Input the password.



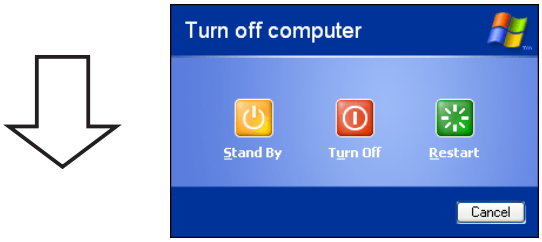
3. The System Exit screen is displayed. Click on the Yes button.



4. Click on the start button in the lower left of the screen, then on Turn Off Computer.

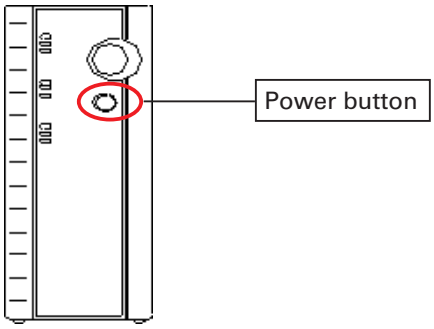


5. The “Turn Off Computer” screen appears. Click on “Turn Off”.



6. The shutdown process begins. After some time, the PC will switch off*, so turn the LCD screen off as well.
   *Several minutes may pass.

7. If the system is equipped with a UPS (uninterruptible power supply), turn it off at that stage.



■ Limitations on changing settings
Some types of air conditioners are limited in the settings which they support. For example, cooling-only air conditioners cannot be set to heating. Floor-type models typically support only high fan speeds. Ceiling mounted models do not have flaps, and therefore cannot change the fan direction.
You should be aware of the limitations of the air conditioner models in your system.
For more information, contact your dealer or service provider.

■ Personal Computers
Use a personal computer exclusively for the P-AIMS System.
Sharing the PC with any other system could cause problems.

■ Data backup
The PC used with the P-AIMS System could break down, so you are advised to back up data to an external hard drive or other storage.
For more information, contact your dealer or service provider.
Caution: If the drive name of the external hard disk or other backup location changes, backups cannot be done.

■ Power outages
We recommend use of a UPS device (uninterruptible power supply) to protect the P-AIMS in the event of a power outage.
For more information, contact your dealer or service provider.

■ Please note that we will not provide compensation in the following circumstances:
Any fault caused by a third party becoming aware of a password.
Any fault caused by sharing a PC between P-AIMS and another application.

- Only alarm codes are displayed in the notification bar and alarm log display.
  The content of an alarm can vary for different models, even if the alarm code is the same.
  Consult the documentation of the various models to determine the content of the alarm.
- After the settings of an indoor unit are changed from the P-AIMS System, the display may revert temporarily to the former settings. This is more likely to occur with all-unit operations. The cause is communications delay, not any malfunction in the system. If you wait a few minutes, the display will show the correct information.
- Errors occurred while operating during a thunder storm or because of electromagnetic interference.
- Power the P-AIMS System off and then on again.
  As a rule, the system should be powered off only in cases such as the above.
  Correct management of air conditioning is not possible when the system is powered off.
- Setting the current date and time
  The current date and time should be set on a regular basis, since the PC clock can gain or lose up to about two minutes per month.
- Passwords
  Passwords should be recorded and saved in a safe place. They should never be disclosed to third parties.
  If you forget your password, contact your dealer or service provider.
- Interface adaptors (sold separately)
  - Alarm display
    Alarm details are not shown. The display is “C12”. (meaning local adapter all-unit alarm)

  Interface adaptors (CZ-CAPC2)
  You can use Interface adaptors to connect equipment that can be turned on and off (fans, room air conditioners and so on) to the system.
  However, note that the following limitations apply.
  For details, refer to the documentation of the equipment or contact your dealer or service provider.

  - Central control is supported for the following operations only.
    ·On/Off
    ·Remote control prohibition (start/stop only)
    Timer settings are supported, but settings other than “start/stop” and “remote control prohibition” are ignored.
    Remote control prohibition is possible only when prohibition signal output from the local adaptor has been connected to the equipment.
    Even in this case, the only operations that can be prohibited are start and stop.
  - Alarm display
    Alarm details are not shown.
    The display is “C12”. (meaning Interface adaptor all-unit alarm)
    However, this is possible only when the alarm signal input has been connected to a local adaptor.
  - As long as it conforms to the contact specifications of the Interface adaptors, any type of equipment can be connected to the system. However, you should avoid connecting equipment whose operation can have grave consequences for life or property.

6. License Certification

Before you can use the P-AIMS system, you need to first perform a work procedure called "license certification."

To perform license certification, make an inquiry by sending the inquiry key to the inquiry e-mail address below. You will be registered as a user and issued a release key, and then receive a reply.

<Contact Information>
Product ID Issuance Desk,

E-mail address: cmc_productid_desk@gg.jp.panasonic.com

When you make an inquiry, send the following information together with the inquiry in order to be registered as a user and issued a release key.

(1) Product name
(2) Company name/contact person
(3) Phone number
(4) E-mail address
(5) Inquiry key

* If you do not input a release key, you will no longer be able to use the system after 30 days elapses. Obtain a release key and perform license certification as soon as possible.
* Make an inquiry as soon as possible because it may sometimes take several days to be issued a release key.

License Certification Procedure

The procedure from after the P-AIMS system is installed up until the end of license certification is described below.

(1) Check the inquiry key from the License Certification screen.

(2) Send the inquiry key to the Product ID Issuance Desk (cmc_productid_desk@gg.jp.panasonic.com).
Also notify us of the product name, company name/contact person, phone number, and e-mail address.

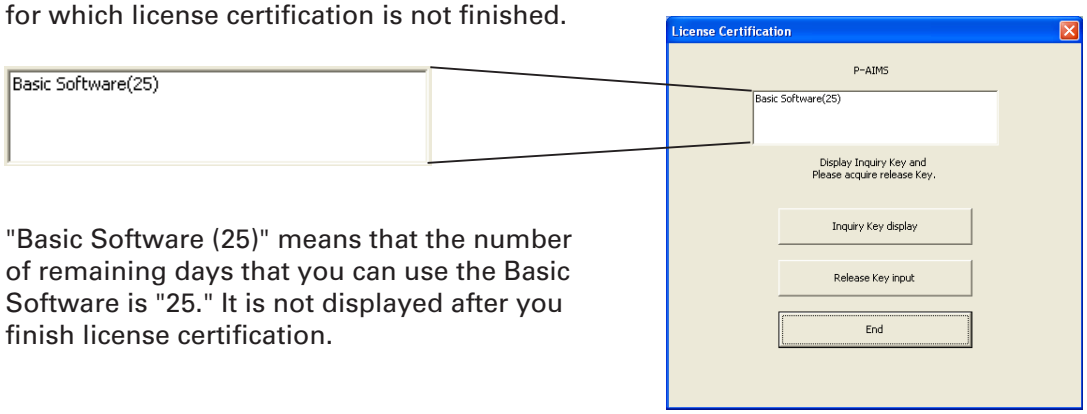
(3) A release key is issued.
You are registered as a user and a release key is issued. A reply is sent to the registered mail address.

(4) Input the release key from the License Certification screen.

(5) The license certification procedure is finished.

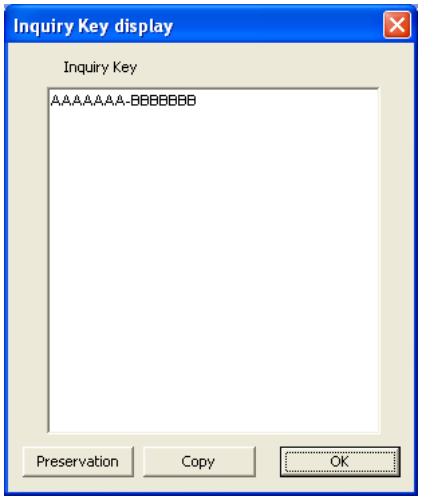
Performing License Certification

1. A License Certification screen such as the following appears when you start a P-AIMS systems for which license certification is not finished.



"Basic Software (25)" means that the number of remaining days that you can use the Basic Software is "25." It is not displayed after you finish license certification.

* After you start a P-AIMS system for which license certification is not finished, the License Certification screen will appear at 9:00 a.m. and 3.p.m. This screen is not displayed after you finish license certification.
If you install optional software, the License Certification screen will appear until license certification is finished for all of the software.



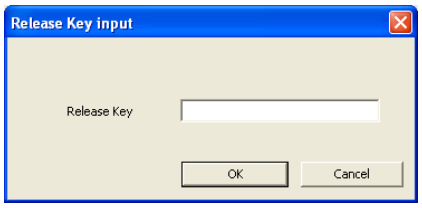
2. If you click the Inquiry Key display button in the License Certification screen, the Inquiry Key display screen appears, and the inquiry key is displayed in the screen.
Send the key displayed in this screen to the Product ID Issuance Desk (cmc_productid_desk@gg.jp.panasonic.com) by e-mail.
At the same time, also notify us of the following items.
   (1) Product name (required)
   (2) Company name/contact person
   (3) Phone number
   (4) E-mail address (required)

   You will be registered as a user and issued a release key.

Preservation :Clicking this button saves the inquiry key as a text file. Follow the instructions on the screen to save the text file. Enter the product name, company name/ contact person, phone number, and e-mail address in this saved text file, and send the text file to the Product ID Issuance Desk by e-mail.

Copy :Clicking this button copies the inquiry key to the Windows clipboard. Paste the inquiry key into your mail.

OK :Clicking this button closes the Inquiry Key display screen.



3. When you receive the release key, restart the P-AIMS system. See "2. Startup and shutdown" for how to restart the P-AIMS system, and then restart the system.

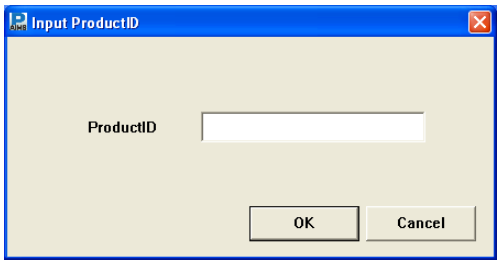
   If license certification is not finished for the P-AIMS system, the License Certification screen on the right appears before the P-AIMS system restarts. Click the Release Key input button to display the Release Key input screen, and enter the release key.

* If you install multiple P-AIMS system software, the same number of license certifications is required. In such a case, the number of release keys sent will be the same as the number of inquiry keys.
  Enter all of the received release keys sequentially, and perform license certification. (There is no set order for entering release keys, so they can be entered in any order.)

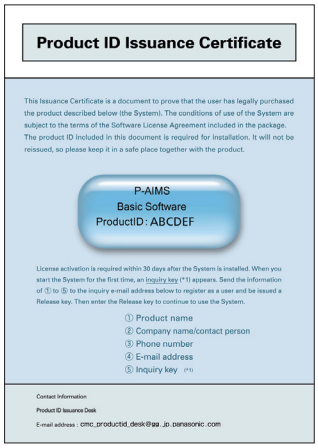
License certification is finished once all of the release keys have been entered.
Click the End button. The License Certification screen closes, and the P-AIMS system starts.

* The P-AIMS system will start even if you click the End button without entering the release key. You can use the system as is until license certification is finished. (The system can be used for a period of 30 days.)

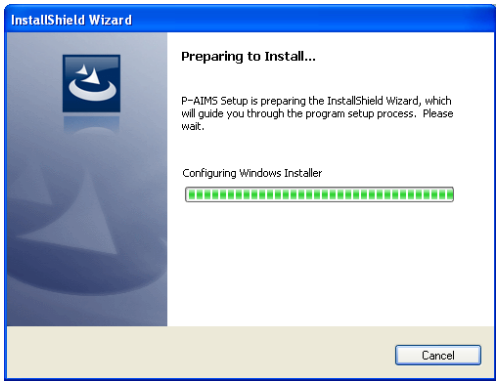
7. Basic Software Installation



1. Insert the Basic Software CZ-CSWKC2 CD of the P-AIMS system you purchased into the CD-ROM drive. Installation starts automatically when you insert the CD. If installation does not start, double-click “Setup.exe“ on the CD-ROM drive to start it.
   Enter the Product ID in the Input Product ID screen that appears.
   For the Product ID, see the “Product ID Issuance Certificate“ supplied with the software.

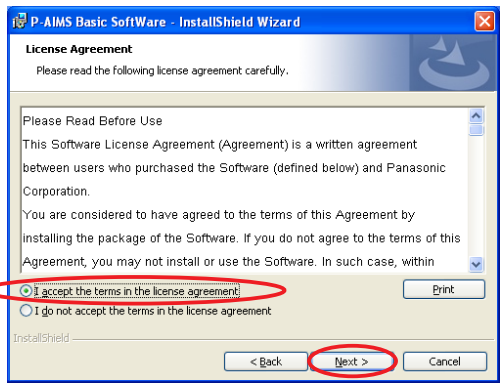


* Keep the “Product ID Issuance Certificate“ in a safe place. The Product ID is required to install the P-AIMS system. The “Product ID Issuance Certificate“ will not be reissued.

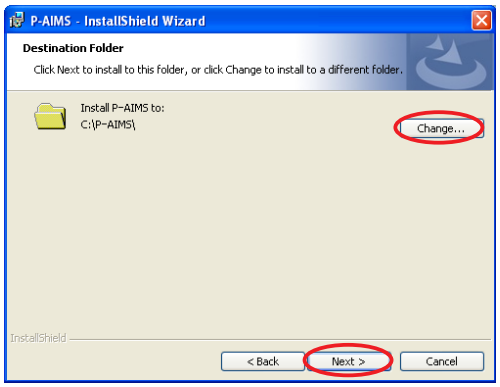


2. The InstallShield(R) Wizard prepares to install the P-AIMS system.

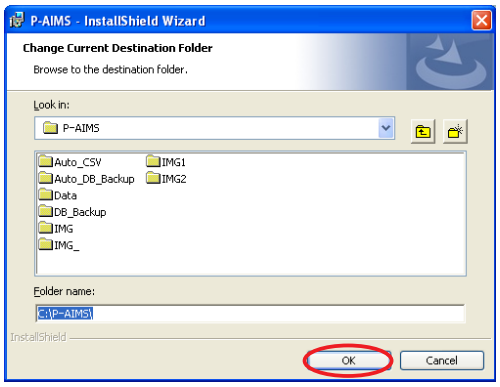
3. After a short while, the "The InstallShield(R) Wizard will install P-AIMS on your computer. To continue, click Next. " message appears. Click the Next > button.



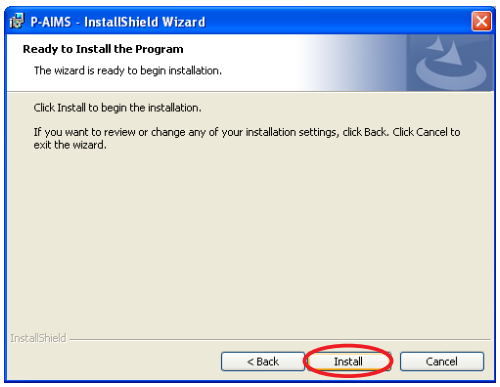
4. Next, the License Agreement screen appears. Carefully read the license agreement, and click "I accept the terms in the license agreement" if you agree to the terms of the license agreement. The Next > button becomes active. Click the Next > button. (The software cannot be installed if you do not agree to the terms of the license agreement.)



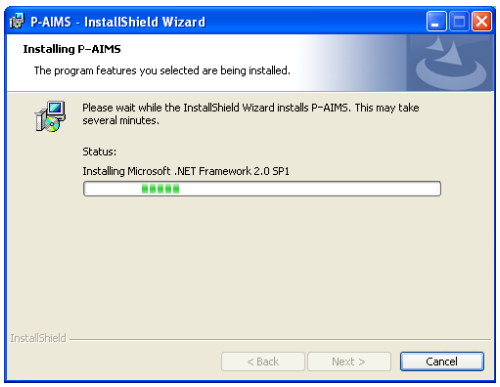
5. A screen for changing the folder to install the P-AIMS system in appears.
   - If you want to change the folder, click the Change... button. A screen for selecting the installation folder appears.
   - If you do not want to change the folder, click the Next > button.



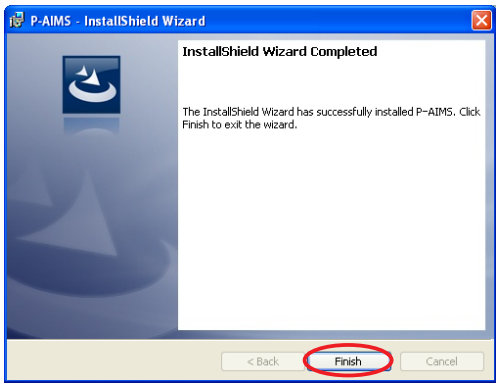
To change the folder, specify a folder and click the OK button. The specified folder is displayed and the previous screen is redisplayed.



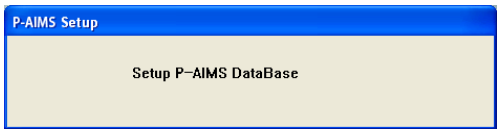
6. Click the Install button to begin the installation of the P-AIMS system.

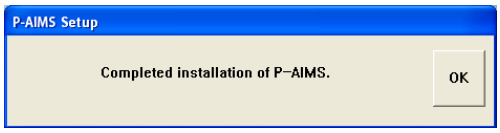


Please wait a while.



7. When the P-AIMS system setup is finished, the installation complete screen appears. If you click the Finish button, the initial settings of the P-AIMS system are configured.





8. When the initial settings are finished, click the OK button in the "Completed installation of P-AIMS" screen that appears.
   The installation is now finished.

9. When the installation is finished, registration of the P-AIMS shortcut to the desktop and registration to the Start menu take place.

10. From now on, you can start the P-AIMS system by double-clicking this shortcut.

8. Troubleshooting

Before requesting service, check the following items.

Do not attempt to service the system yourself. Doing so can be dangerous.

Symptom	Cause
There is no screen display, even when the PC is switched on.	· Is the power cord connected? · Is the power switch turned On?
Scheduled operation does not work well.	· Is there a schedule mode or time setting? Even if schedule mode and time settings are made, schedule operation is not possible without confirmation. · Does the setting match the current date and time? If the date and time do not match, operation can start at an unexpected time.
The power goes off at odd times.	· The screen may be blank because of the power-saving auto off function. In this case, the power is not switched off, so move the mouse or press any key.
An error message has appeared in the alarm display area in the upper left of the screen, and does not disappear.	· The message displays the unit number where the alarm occurred, and other information such as content and number of the alarm. Inform your dealer or service provider about the content of the message.
It takes a long time after an operation for the screen to be updated.	· A certain amount of time may be required depending on the state of communications with the connected air conditioners. Please wait until all of the information is received.
While local remote control operation is prohibited on the P-AIMS system, P-AIMS has malfunctioned and become unable to start/stop operation of air conditioners.	· As an ad hoc measure until the service engineer arrives, turn the P-AIMS system off, then turn the power of the indoor unit on again. Operation with the local remote control will be possible. However, this cannot be done in a system without remote control.
After a power outage, the devices do not reset automatically after power is restored.	· The system does not power on equipment automatically after a power outage. The setting for the next programmed schedule will be executed when the time arrives.

9. Afterservice

Please be sure to read this section.

If you have any questions or repair-related consultations

Please consult your dealer about repairs or any questions.

Relocation

⚠ Warning

Specialist skills are required, so always consult your dealer. Necessary expenses for relocation are to be borne by the customer.

User memo space

If you fill this out at the time of purchase, it is convenient when ordering repairs etc.

Serial No.	
Date of installation	
Dealer	Telephone No. ( )

Authorized representative in EU
Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

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