

Air-conditioner Network System

Centralized Controller AG-150A AG-150A-A GB-50ADA-A GB-50ADA-J

Instruction Book (Web browser for Initial Settings)

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Before using the controller, please read this Instruction Book carefully to ensure proper operation. Retain this manual for future reference.

1 Introduction

Special features of Mitsubishi Electric Corporation's "Centralized Controller AG-150A," "Centralized Controller AG-150A-A," "Centralized Controller GB-50ADA-A," and "Centralized Controller GB-50ADA-J" are that a PC connected to a LAN can be used to monitor the operation condition of air conditioners, perform air conditioner operations, and make initial settings. This document explains the procedures for making initial settings for the Centralized Controller using the web browser. Hereinafter, the centralized controller AG-150A, AG-150A-A, GB-50ADA-A, and GB-50ADA-J, unless otherwise specified, will be called "AG-150A".

- Note: License of "Web Monitor" or "Basic License Pack" is necessary to use the web browser (to operate or monitor the air conditioners). Some licenses are necessary depending on the functions to be used. Register the license key on the LCD screen or on the registration screen. (GB-50ADA-A and GB-50ADA-J do not have LCDs.)
- Note: A one-day license key can be registered on the LCD screen that allows the user to use the "Web Monitor" only on the day of the registration (not applicable to GB-50ADA-A and GB-50ADA-J). Use this license key to use the initial setting browser, or in any other situations when a temporary license key "Web Monitor" is necessary.
- Note: Use a security device such as a VPN router when connecting the AG-150A to the Internet to prevent unauthorized access.
- Note: "Booster unit" and "Water HEX unit" are referred to as "Air To Water" (PWFY).
- Note: As GB-50ADA-A and GB-50ADA-J are not equipped with a LCD for settings, the initial setting must be made on the Initial Setting Web.
- Note: GB-50ADA-A and GB-50ADA-J cannot be connected to the Expansion Controller (PAC-YG50ECA). Settings or displays of the Expansion Controller cannot be made on the GB-50ADA-A and GB-50ADA-J.

1-1 Terms Used in This Manual

- "Click" refers to the action of positioning the mouse cursor on the object (such as button or folder), pressing down, and releasing the left mouse button once.
- Unless otherwise specified, the example screen images used in this manual are Windows XP[®] and Internet Explorer 6.0 screen images.
 - Note: Windows is a registered trademark or trademark of Microsoft Corporation USA in the United States and other countries.

1-2 Computer Requirements

To monitor and operate air conditioners by web browser, computer must include the following requirements. <u>Table 1-1 Computer Requirements</u>

Item	Requirement
CPU	Pentium 300MHz or faster
Memory	64M Bytes or more (128M Bytes or more recommended)
Screen resolution	1024 x 768 or higher recommended
	Microsoft [®] Internet Explorer 6.0
	Microsoft [®] Internet Explorer 7.0
	Microsoft [®] Internet Explorer 8.0
	Note: You must have a Java execution environment
	(Sun Microsystems [®] Java Plug-in Ver.1.6.0.02 or later)
Recommended browser	Note: You can check the Sun Microsystems [®] Java Plug-in version in "Java" in a control panel.
	Note: Install Sun Microsystems [®] Java Plug-in that is appropriate for your operating system. When using 64-bit Internet Explorer, install 64-bit Java Plug-in.
	Note: When using Sun Microsystems [®] Java Plug-in Ver. 1.6.0.10 or later, set the Java execution environment according to the instructions in section 2-3 "Setting the Java Execution Environment."
On-board LAN port or LAN card	One connector (100BASE-TX)
Other	Pointing device such as a mouse

Note: Microsoft is a registered trademark or trademark of Microsoft Corporation USA in the United States and other countries.

Sun Microsystems and Java are trademarks or registered trademarks of Sun Microsystems Inc. in the United States and/or other countries.

1-3 Notes on using AG-150A with the integrated centralized control software (TG-2000A)

If the system is connected to the integrated centralized control software (referred to as TG-2000A hereafter), make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.

2 Setting the Operating Environment

PC settings and web browser settings required for using a web browser to monitor air conditioner units and perform operations are explained in the following pages.

2-1 Setting the PC IP Address

Set an IP address on the PC that enables AG-150A to connect via a web browser. For instance, if the AG-150A IP address is [192.168.1.1], the PC IP address will need to belong to the same system [192.168.1.101]. If the AG-150A is connected to an existing LAN, ask the LAN administrator to decide what PC IP address to use.

- Note: When using a AG-150A dedicated LAN, it is recommended that the AG-150A main unit be given an IP address within the range [192.168.1.1] [192.168.1.40] and the PCs that will be connected to the AG-150A be given an IP address within the range [192.168.1.101] [192.168.1.150]
- (1) Click on [Control Panel] under [Start] to open the Control Panel.



🗕 Local Area Connection Status 🛛 🕐 🗙
General Support
Connection
Status: Connected
Duration: 01:06:52
Speed: 100.0 Mbps
Activity
Sent — 👘 — Received
Bytes: 808,087 5,253,643
bytes. 000,001 0,230,040
Properties Disable
Local Area Connection Properties
Local Area Connection Properties
General Authentication Advanced
General Authentication Advanced
General Authentication Advanced Connect using:
General Authentication Advanced Connect using: General SCom 3C920 Integrated Fast Ethernel Configure This connection uses the following items:
General Authentication Advanced Connect using: General Score Scor
General Authentication Advanced Connect using: Gamma 3Com 3C920 Integrated Fast Ethernel Configure This connection uses the following items: Gamma Client for Microsoft Networks Gamma File and Printer Sharing for Microsoft Networks Gamma Client Scheduler
General Authentication Advanced Connect using: General Score Scor
General Authentication Advanced Connect using: Gamma 3Com 3C920 Integrated Fast Ethernel Configure This connection uses the following items: Gamma Client for Microsoft Networks Gamma File and Printer Sharing for Microsoft Networks Gamma Client Scheduler
General Authentication Advanced Connect using: Image: Scom 3C920 Integrated Fast Ethernel Configure This connection uses the following items: Image: Client for Microsoft Networks Image: Client for Microsoft Client State Image: Client for Microsoft Networks Image: Client for Microsoft Client State Image: Client State
General Authentication Advanced Connect using: Im 3 Com 3C920 Integrated Fast Ethernel Configure This connection uses the following items: Im Client for Microsoft Networks
General Authentication Advanced Connect using: General Scom 3C920 Integrated Fast Ethernel Configure This connection uses the following items: General Client for Microsoft Networks General Client for Microsoft Network
General Authentication Advanced Connect using: Image: Configure This connection uses the following items: Configure This connection uses the following items: Image: Configure Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Internet Protocol (Image: Configure and Printer Sharing for Microsoft Networks) Image: Configure and Printer Sharing for Microsoft Networks Image: Configure and Printer Sharing for Microsoft Internet Protocol (Internet Protocol Internet Protoc
General Authentication Advanced Connect using: General Scom 3C920 Integrated Fast Ethernel Configure This connection uses the following items: General Client for Microsoft Networks General Client for Microsoft Network

(2) In the Control Panel window, double click [Network and Dial-up Connections] and the Network and Dial-up Connections window will open. Double click on [Local Area Setting] and the [Local Area Connection Status] dialog will open. Click [Properties].

(3) In the [Local Area Connection Properties] dialog, click [Internet Protocol] to select it and click the [Properties] button.

- (4) In the [Internet Protocol (TCP/IP) Properties] dialog, click [Use the following IP address] and enter the IP address (for example, "192.168.1.101") that you want to set in the IP address field.
 - You normally set [255.255.255.0] as the subnet mask.

Note: Ask your LAN administrator to provide the IP addresses and subnet mask.

(5) Click the [OK] button to close this dialog, and then close the other open dialogs to complete the network setting.

nternet Protocol (TCP/IP) Proper	rties 🛛 🔍 🗙
General	
You can get IP settings assigned autorr this capability. Otherwise, you need to a the appropriate IP settings.	
O Dbtain an IP address automatically	,
O Use the following IP address: ──	
IP address:	192.168.1.101
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	· · ·
Obtain DNS server address autom	atically
Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Advanced
	OK Cancel

2-2 Setting the Web Browser

Use a security device such as a VPN router when connecting the AG-150A to the Internet to prevent unauthorized access.

If no security devices are installed, the operation settings may be changed by an unauthorized person without the knowledge of the user.

Necessary web browser settings must be performed to enable the web browser to connect to the AG-150A. Note: The settings and screen images used as examples in this manual are based on Internet Explorer 6.0.

2-2-1 No Internet Connection

display.

Follow the instructions below to make the web browser environment settings when using the PC with no Internet connection for monitoring and operating the air conditioners.

(1) Click the web browser menu item [Tools] and then click [Internet Options...] to select.

A HTTP 404 Not Found - Microsoft Internet Explorer						
File Edit View Favorites	Tools Help					
Back • 🕥 - 💌	Mail and News Synchronize Windows Update	🕈 ☆ Favorites 🜒 Media 🥝				
Rep.//192.100.1.1)	Show Related Links					
i The page car	Internet Options					

ernet Options	?>
eneral Security Privacy Content Connections	Programs Advanced
To set up an Internet connection, click Setup.	Setup
Dial-up and Virtual Private Network settings	
Dialup Connection (Default)	A <u>d</u> d
	<u>R</u> emove
Choose Settings if you need to configure a proxy server for a connection.	Settings
Never dial a connection	
O Dial whenever a network connection is not pre	sent
Always dial my default connection	
Current Dialup Connection	S <u>e</u> t Default
Local Area Network (LAN) settings	
LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings.	LAN Settings
2	
ОК С	ancel Apply

(3) Select [Never dial a connection] in the Dial-up settings section and click

(2) In the [Internet Options] tabbed dialog, click the [Connections] tab to

2-2-2 Internet Connection Using a Dial-Up

the [OK] button to close the dialog.

If the PC used for monitoring air conditioners and performing operations is going to connect to the Internet via a dial-up connection, use the procedure given below to set the web browser environment settings. By performing these settings, a message will appear asking whether or not to use a dial-up connection when an Internet connection is necessary. When connecting to the Internet, follow the directions below.

(1) Click the web browser menu item [Tools] and then click [Internet Options...] to select.



- nternet Options eral Security Privacy Content Connections Programs Advance To set up an Internet connection, click Setup. Setup.. Dial-up and Virtual Private Netw ork settings Dialup Connection (Default) A<u>d</u>d... <u>R</u>emove Choose Settings if you need to configure a proxy server for a connection. Settings... O Never dial a connection Dial whenever a network connection is not present Always dial my default connection Dialup Connection Current Local Area Network (LAN) settings LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings. LAN Settings... OK Cancel
- (2) In the [Internet Options] tabbed dialog, click the [Connections] tab to display.
- (3) Select [Dial whenever a network connection is not present] in the Dialup settings section and click the [OK] button to close the dialog.

2-2-3 Connecting to the Internet using a proxy server (Using an existing LAN)

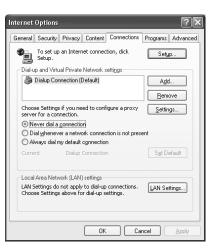
If the PC you use for monitoring air conditioners and performing operations is going to access the Internet via proxy server by connecting to an existing LAN such as a LAN within your company, use the procedure given below to set the web browser environment settings.

By performing these settings, your PC will connect to a proxy server only when connecting to the Internet.

- (1) Click the web browser menu item [Tools] and then click [Internet Options...] to select.
- (2) In the [Internet Options] tabbed dialog, click the [Connections] tab to display.
- (3) Select [Never dial a connection] in the Dial-up setting section.
- (4) Click the [LAN Setting . . .] button in the Local Area Network (LAN) settings section to display the Local Area Network (LAN) Settings dialog.
- (5) In the Local Area Network (LAN) Settings dialog, check [Bypass proxy server for local addresses] and click the [Advanced...] button.

- (6) Enter the IP address for the AG-150A (e.g. 192.168.1.1) in the Exceptions field of the Proxy Setting dialog and click the [OK] button to close the dialog and then close the other open dialogs to complete the setting.
 - Note: If connecting to more than one AG-150A, you can specify multiple IP addresses like [192.168.1.1; 192.168.1.2], however, it is also possible to use the asterisk (*) and specify [192.168.1.*].

A HTTP 404 Not Found - Microsoft Internet Explorer					
File Edit View Favorites	Tools Help				
G Back ▼ ○ - ■ Address http://192.168.1.1/	Mail and News Synchronize Windows Update	🕈 🛧 Favorites 🜒 Media 🥝			
de napatros ant	Show Related Links				
1 The page car	Internet Options				



Local Area Network (LAN) Settings 🛛 🔹 💽
Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
Proxy server
$\label{eq:sector} \boxed{ Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections). }$
Address: 192.168.1.254 Port: 8080 Advanced
Bypass proxy server for local addresses
OK Cancel

Proxy Se	ttings			?×	
Servers					
	Туре	Proxy address to use		Port	
¢i≣	HTTP:	192.168.1.254]:	8080	
	Secure:	192.168.1.254]:	8080	
	ETP:	192.168.1.254]:	8080	
	Gopher:	192.168.1.254	:	8080	
	So <u>c</u> ks:		:		
	✓ Use the same	me proxy server for all protoco	ls		
Exceptions Do got use proxy server for addresses beginning with: 192.168.1.1 Use semicolons (;) to separate entries.					
		ОК	_	Cancel	

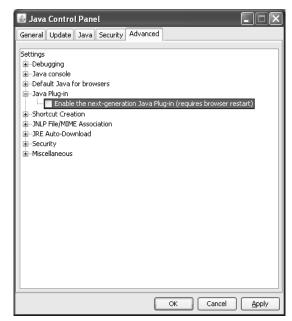
2-3 Setting the Java Execution Environment

When using Java Plug-in version 1.6.0_10 or later, make the following environment settings (not required for version 1.6.0_09 or earlier).

Note: The setting samples and screenshots used in this manual are those of Java Plug-in version 1.6.0_11.

2-3-1 Disabling the next-generation Java Plug-in

- (1) Open Java Control Panel by double-clicking Java in the Control Panel.
- (2) In the [Advanced] tab under the [Java Control Panel] screen, click the plus next to [Java Plug-in] to expand the list, and uncheck the checkbox next to [Enable the nextgeneration Java Plug-in (requires browser restart.)].



3 Performing Operations

Text below explains how to connect to the AG-150A and how to make various settings for the AG-150A.

Note: If the AG-150A is restarted due to a power interruption etc., wait until the screen on the AG-150A main unit displays the normal operation screen (it takes several minutes before the normal operation screen is displayed) before using a web browser to access the AG-150A. If access is attempted while the AG-150A is still starting up, the most recent data might not be displayed or communication errors could occur. Note: Default IP address of AG-150A is "192.168.1.1". (Factory setting)

3-1 Logging in on the AG-150A

3-1-1 Logging in on the AG-150A

(1) Enter the web page address in the address field of the web browser as follows:

http:// [IP address of the AG-150A]/g-50/administrator.html

- Press the [Enter] key on the keyboard. A screen appears for login. Note: For example, type "http://192.168.1.1/g-50/administrator.html" if the AG-150A IP address is [192.168.1.1].
 - Note: *If the login screen does not appear then take the steps below to delete the temporary files as it may help with the problem. <Internet Explorer>
 - 1. Open Internet Explorer and click on Tools.
 - 2. Click on Internet Options.
 - 3. On the General Tab, in the middle of the screen, click on Delete Files.
 - <Java>
 - 1. Click Start > Control Panel.
 - 2. Double-click the Java icon in the control panel to launch the Java Control Panel.
 - 3. On the General Tab, click on Settings under Temporary Internet Files.
 - 4. Click on Delete Files.
- (2) To make connection easier for the next time, click the web browser menu item [Favorites], click [Add to Favorites], then add the address to the Favorites folder. Once this address is added to the Favorites folder, it is not necessary to input the address of (1). Simply select it from the Favorites folder and the AG-150A page will appear.

0100 @ Http://102.161.1.1/p50(er(edm)	🖓 Search 👷 Favorites 📽 Media 🥝 🍰 🔂 👘	v 🖸 🛛 🗤
33955 @http://192.168.1.1/p50(en(admini	trakor hini	× 58
		A MISSION
Login Page		Registration of Optional Functions
	Type your user name and password.	
	User name	
	Password	
	Login	

MITSUBISHI Air Conditioner Control System - Microsoft Internet Explorer File Edit Vew Forontes. Gada to Farontes Granize Farontes Crganize Farontes Address Mittpil/; Links , tor.html								
Search & Granize Favorites Search & Favorites & Media &	🗿 MITSUBISHI A	r Conditio	ner Control	Sy	stem - i	vicrosoft Inte	rnet Explor	er
Organize Favorites Search 👷 Favorites 😵 Media 🧐	File Edit View	Favorites	Tools Help					
Organize Pavorices	And - F	Add to	Favorites		Count	A	al main	0
Address 🙆 http:// 👝 Links 🔶 tor.html	G Datk - G	Organia	e Favorites		Search	Tavorites	. Media	C
	Address 🙆 http://:	🗎 Links		•	tor.html			
		_						

(3) Enter the user name and the password in the login screen, and click

the [Login] button. A screen will appear in which various setting are made. An explanation on how to perform operations begins from the next page.

The table below shows the default user names and passwords for maintenance users and building managers as well as available functions.

User	Default user name	Default password	Available functions		
			Initial settings	Date and Time, Basic System, Groups, Interlocked LOSSNAY, Blocks	
			Functions 1	E-Mail, Peak cut, Measurement	
Maintenance user	initial ir		init	Set Temperature Range Limit, Night Mode Schedule, System-changeover	
			Functions 3	External Temperature Interlock, Night setback control Interlock control	
			User Settings	User Settings	
Building manager	administrator	admin	Out of the functions listed above, the items to which access rights have been given on the user settings screen are available.		

Note: The user name and the password for building manager are the same as those of the building manager of the Web for monitoring/operation.

Note: Maintenance users can make available to the administrator only the information necessary for normal operations (group name setting etc.)

Note: It is recommended to change the user name and password so users other than the manager are not permitted to change the settings.

Note: The Web page is displayed in the same language as the computer uses and it is also possible to display the Web page in other languages by entering the following Web page addresses.

 P	
Chinese	: http://[The IP address of AG-150A]/g-50/zh/administrator.html
English	: http://[The IP address of AG-150A]/g-50/en/administrator.html
French	: http://[The IP address of AG-150A]/g-50/fr/administrator.html
German	: http://[The IP address of AG-150A]/g-50/de/administrator.html
Italian	: http://[The IP address of AG-150A]/g-50/it/administrator.html
Japanese	: http://[The IP address of AG-150A]/g-50/ja/administrator.html
Portuguese	: http://[The IP address of AG-150A]/g-50/pt/administrator.html
Russian	: http://[The IP address of AG-150A]/g-50/ru/administrator.html
Spanish	: http://[The IP address of AG-150A]/g-50/es/administrator.html

3-1-2 Encrypting the communication data and login on the AG-150A

AG-150A can encrypt communication data using HTTPS (SSL).

When connecting the AG-150A to the LAN that can be accessed by the general public, it is recommended that the following settings be made so that the units are monitored and controlled on the encrypted Web page.

- Note: Depending on the operating system or the version of Java, HTTPS encrypted messages may not be handled correctly. If this happens, use a HTTP connection to monitor and control the units as noted in the section above.
- (1) Go to [Tools]->[Internet Options]->[Advanced], and make the following settings.

Item	Checkbox setting
Use SSL 2.0	Uncheck the box.
Use SSL 3.0	Check the box.
Use TLS 1.0	Uncheck the box.
Do not save encrypted pages to disk	Check the box.

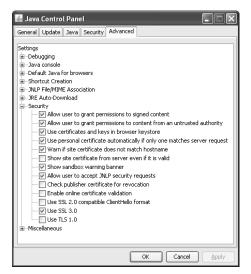
Note: Some of the settings may have different names depending on the Web browser version.

nternet	Options	_	_	_		?
General	Security	Privacy	Content	Connections	Programs	Advance
<u>S</u> etting:	с.					
	Allow aci Allow sof Check fc Check fc Check fc Do not s Empty Te Enable F Use SSL Use SSL Use TLS Warn ab	tive conte tware to r r publishe r server c r signatur ave encry emporary l ntegrated 'rofile Assi 2.0 3.0 1.0 out invalic out invalic	nt torun in un orinstai ertificate re es on dow pted page nternet Filk Windows / stant I site certifi	es folder when Authentication	omputer gnature is inv uires restart) ams browser is c (requires res	losed tart)
<u> </u>					Dester D	a fa a la
					<u>R</u> estore D	veraults
			ОК		ancel	Apply

(2) Click on [Java] in the Control Panel, and make the settings for the items under [Security] in the [Advanced] tab.

Item	Checkbox setting
Use SSL 2.0 compatible Client Hello format	Uncheck the box.
Use SSL 3.0	Check the box.
Use TLS 1.0	Uncheck the box.

Note: Some of the settings may have different names depending on the Java version.



(3) Prefix the Web address with [https], enter the address, and hit the [Enter] (Return) key on the keyboard.

https://[IP Address of the AG-150A]/g-50/administrator.html

Note: For example, type "https://192.168.1.1/g-50/administrator.html" if the AG-150A IP address is [192.168.1.1].

If the security alert is disabled as described in the note in the following and the subsequent sections, encrypted date communication will begin, and the Login screen will appear. If the security alert has not been disabled, take the following procedures.

AVTSUBISHI Air Conditioner Control S	sten - Nicrosoft Internet Explorer	
File Edit View Favorites Tools Help		A
GHALO - N C G A) Search of Favories 🜒 Media 🙆 🎯 - 🍓 📷 .	
Address 📓 https://192.168.1.1/g-50/en/administ	rukce Johni	🛩 🔁 Ge UHS
		• MTR.800 •
		AT N. ELECTRIC
Login Page		Registration of Optional Functions
	Type your user name and password.	
	User name	
	Password	
	Login	
		NUMBER OF STREET, STREE
78		
<u>6</u>		🕲 Internet

- (4) If the security alert has not been disabled, after entering the web address and hitting the Enter (Return) key, a security alert message will alert asking if you want to proceed. This is because the AG-150A uses the self-authentication system. Click [Yes] and proceed.
 - Note: Disable the security alert that appears every time the browser is opened, take the following two steps:
 - 1) Register the security certificate and
 - 2) Change the Web browser's option settings

To register the security certificate, click the [View Certificate] button on the security alert window to display the certificate, click on the [Install Certificate] button, and add the certificate to the Trusted Root Certification Authorities store. Just follow the prompts of the Import Wizard.

Go to [Tools]->[Internet Options]->[Advanced], and make the following settings for the Web browser.

Item	Checkbox setting
Warn about invalid site certificates	Uncheck the box.

Certificate Import Wizard 🛛 🗙
Certificate Store Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for O Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Trusted Root Certification Authorities Browse
< Back Next > Cancel

- (5) A Java security alert message will appear after you click [Yes] in step (4) above, click [Yes] again to proceed.
 - Note: To disable the security alert message that appears every time the browser is opened, check the check box next to [Always trust content from this publisher], and click [Yes]. The browser may need to be restarted to reflect the change.

Note: If the window shown on the right does not appear and connection fails, the certificate needs to be added to the Java certificate list. Click the [View Certificate] button on the screen in

step (4) to display the certificate, click on the [Copy to File] on the [Details] page, and save the certificate in any desired location in the DER format. Open [Java] in the Control Panel, click on the [Certificates] button on the [Security] page to bring up the certificate registration screen. On the screen, select [Secure Site], click on the [Import] button, change the File of type to [All Files], and select the saved certificate. Now the certificate has been added to the Java certificate list.

(6) If a connection is successfully made, the login window will appear. All communication with the AG-150A will be encrypted. The Web addresses for general users and in each language will have the web address in the previous section with "http" changed to "https".

File Edit View Favorites Taols Help			17
	Paus Aruse Great @ B- 🗟 🖂		
iddress 🗃 https://772.168.1.1/g-50/im/adm	nistrakor Istal	✓ 🖸 ∞	UNK
		A.8	
Login Page		Registration of Optional Functions	
	Type your user name and password.		
	User name		
	Password		
	Login		
		Copylights) 2004-2007 MTSERGH REECTRIC CORFORATION AI Found	Reco
		10 Internet	-

Warning - Security				
The web site's certificate cannot be verified. Do you want to continue?				
Name: 192168.1.1 Publisher: Mitsubish Electric Corporation Deveys trust content from this publisher.				
	Yes No			
The certificate cannot be verified by a trusted source.	More Information			

4 Initial Settings

This chapter explains how to set the settings on the AG-150A's initial settings screen.

*Refer to Chapter 5 in the Instruction Book that came with the centralized controller AG-150A when turning the power on for the first time.

*Refer to Chapter 7 in the Installation/Instructions Manual that came with the centralized controller GB-50ADA-A or GB-50ADA-J when turning the power on for the first time.

Note: GB-50ADA-A and GB-50ADA-J cannot be connected to the Expansion Controller (PAC-YG50ECA). Settings or displays of the Expansion Controller cannot be made on the GB-50ADA-A and GB-50ADA-J.

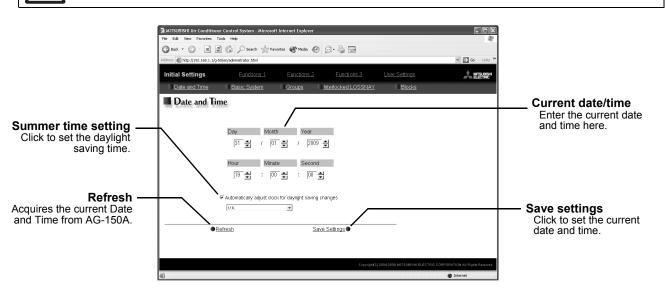
4-1 Setting the Current Date and Time

Click [Initial Settings] in the menu, and [Date and Time] screen will appear on the screen. Enter the current date and time, and then press the [Save Settings] button to send the current date and time to AG-150A.

- Note: If the user logs in as a building manager, the operations may be prohibited.
- Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.
- Note: When the time setting is made on this screen, the setting will be applied to all the units on M-NET system.
- Note: The clock setting made on the screen below will be reflected on the clocks on other units that are connected to the M-NET line, on the Expansion Controllers (PAC-YG50ECA), and on the AG-150A controller whose "Time master setting" is set to Sub.
- Note: When an Expansion Controller (PAC-YG50ECA), DIDO controller (PAC-YG66DCA), AI controller (PAC-YG63MCA), or PI controller (PAC-YG60MCA) is added to the system, set the clock on the added controller by making the clock setting on the clock setting screen.
- Note: When an Expansion Controller (PAC-YG50ECA), DIDO controller (PAC-YG66DCA), AI Controller (PAC-YG63MCA), or PI Controller (PAC-YG60MCA) is newly connected, make the time setting of the connected controller on this screen.

Note: When connecting multiple AG-150A controllers by connecting an Expansion Controller to the system, set the "Time master" according to the instructions in section 4-2-3 "Time Master setting."

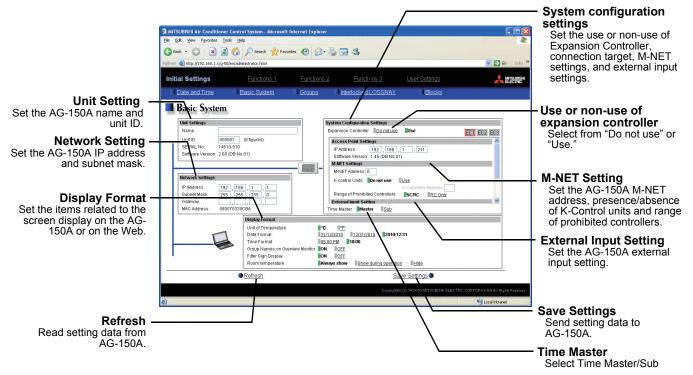
CAUTION Date and clock settings on Expansion Controllers (PAC-YG50ECA), when connected, must be made with the Expansion Controller properly connected to ensure proper settings.



Item	Description	
Current date/time	Enter the current date and time. For the date, use the format [day - month - year].	
Save Settings	Click the [Save Settings] button to set the current date and	time.
Refresh	Acquires the current Date and Time from AG-150A.	
Summer time setting	Click and tick the "Automatically adjust clock for daylight sat daylight saving time automatically, and select the applicable Note: If the applicable country is not in the selection ba "Custom Settings" button that will appear on the Custom Settings Day Month 01 2 04 0 02 0 00 0 0 0 0 0 0 0 0 0 01 0 0 0 0 0 0 0	e country.

4-2 Setting the Basic Information and External Input Functions

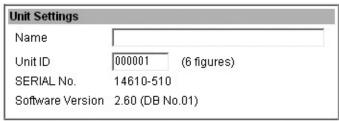
Display the page needed to perform the AG-150A basic setting by clicking [Initial Settings]-[Basic System] in the setting menu pane. On this page, you perform the basic setting such as the AG-150A unit name, network setting and M-NET setting. Click [Save Settings] to send setting data to the AG-150A. After the setting data are sent to the AG-150A, a message will appear asking whether or not to restart the AG-150A. Click [OK] to restart the AG-150A to put the changes into effect.



Note: If the user logs in as a building manager, the operations may be prohibited.

4-2-1 AG-150A Unit Setting

In Unit Setting, set the AG-150A name and unit ID.



(1) Enter the AG-150A unit name in the [Name] field. You may enter a maximum of 40 alphanumeric or symbol characters. The name set here is used on the display screen of the software that controls multiple AG-150A units and for the name of the sender in the body of error messages.

Note: The following characters cannot be used in the name: < > & " '

- (2) Enter the AG-150A unit ID in the [Unit ID] field. You must enter 6 numeric characters. Use this setting when you want to control multiple AG-150A units with unit IDs. The unit ID that is entered here will be used on the display screen of the software that controls multiple AG-150A units and for the sender ID in the body of error messages.
- (3) When [Refresh] is clicked, the AG-150A production ID will appear in the [SERIAL No.] field and the AG-150A software version and the DB No. will appear in the [Software Version] field.
 - Note: DB No. is used when connecting Expansion controllers. If the DB No. on the AG-150A itself and the DB No. of the Expansion Controller do not match, the software must be updated. Note: GB-50ADA-A and GB-50ADA-J do not have DB No.

4-2-2 Configuring the System Configuration Settings

In the System Configuration Settings menu, set the use or non-use of PAC-YG50ECA Expansion Controller, connection target, M-NET settings, and external input settings.

Note: When connecting multiple AG-150A controllers by connecting an Expansion Controller, all controllers must have the same system configurations.

4-2-2-1 Setting the Expansion Controller Connection Setting (AG-150A only)

In the M-NET Settings menu, set the use or non-use of PAC-YG50ECA Expansion Controller and connection target settings.

System Configuration Settings	
Expansion Controller Do not use	Use
M-NET Settings	×
M-NET Address 0	

(1) Select from "Do not use" or "Use" to set the use or non-use of an Expansion Controller.

Note: Before setting the Expansion Controller setting to "Use," make sure that the Expansion Controller is connected to the LAN. The settings made without the Expansion Controller being connected may not be saved (M-NET settings, external input settings, group settings, LOSSNAY interlock settings etc., which are saved on the Expansion Controller side.)

(2) If "Use" is selected for the Expansion Controller setting, an IP

address input field will appear under "Access Point Settings."

Enter the IP address that is assigned to the Expansion Controller here.

When connecting two Expansion Controllers, first click [EC1] and enter the IP address for the first Expansion Controller system, and then click [EC2] to enter the IP address for the second Expansion Controller system.

Expansion Controller system – selection buttons
System Configuration Settings
Expansion Controller Do not use Use EC1 EC2 EC3
Access Point Settings
IP Address 192 168 1 211
Software Version 1.00 (DB No.01)
M-NET Settings
M-NET Address 0

Note: Set the IP address for the Expansion Controller itself on the Expansion Controller unit.

(3) After the Expansion Controller connection setting or the IP address of the Expansion Controller was

changed, click the [Save] button and restart the AG-150A by following the messages on the screen. Make the M-NET settings and external input settings after the system has been restarted.

- Note: After connecting the Expansion Controller, check that the database number (DB No.) on the controller itself and the data base number of the Expansion Controller match. If they do not, consult your dealer for software upgrade.
- Note: To change the settings for the external input settings (or any other settings that are saved on the Expansion Controller side) after the M-NET settings have been made, restart the controller and change the settings with the Expansion Controller properly being connected to the system.
- Note: To change the M-NET settings and external input settings in a system to which an Expansion Controller (PAC-YG50ECA) is connected, be sure to change the settings with the Expansion Controller properly connected to the system. These settings are stored on the Expansion Controller.

4-2-2-2 M-NET Setting

In M-NET Setting, set the AG-150A M-NET address, whether or not a K-Control unit is present and which machines send the prohibited controller command.

M-NET Settings
M-NET Address 0
K-control Units Not used Used
K Converter Address
Range of Prohibited Controllers

- (1) Enter the AG-150A M-NET address in the [M-NET Address] field. Normally you should enter [0].
- (2) When K-Control air conditioners are connected, click [Used] in the [K-Control Units] field and enter the M-NET address of K transmission converter in the [K Converter Address] field.
- (3) If prohibited controller (prohibiting local operation) has been set, this setting determines the scope of this setting s control, i.e. operation is prohibited for both the remote control and subordinate system controllers, or just for the remote control. Click [SC/RC] when you want prohibited controllers to include both subordinate system controllers and the remote control, or click [RC only] when you only want to prohibit operation on the remote control.

Note: Normally, you should select [SC/RC].

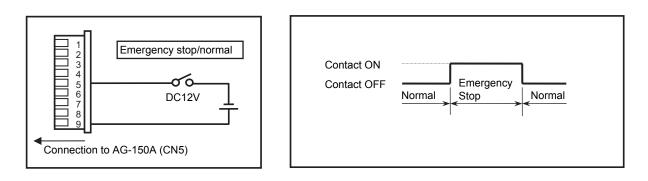
4-2-2-3 External Input Setting

In the External Input Setting menu, set the AG-150A external input function. By using external input functions, it is possible to stop and run multiple air conditioners connected to the AG-150A via the separately sold external I/O adapter for AG-150A (Model: PAC-YG10HA) and external power supply using level signals and pulse signals.

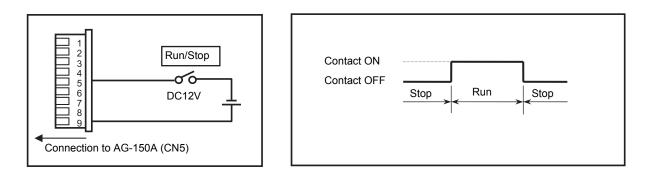
- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller, and make the settings for each system. Make the settings with the Expansion Controllers properly connected. Connect the external input signal wires to each controller's external input terminal.
- Note: General equipments (via PAC-YG66DCA) cannot be run or stopped by using the external input function. But when [Emergency stop (Level signal)] is selected, DIDO controller (PAC-YG66DCA) can be stopped by setting the appropriate switches on the DIDO controller.

External Input Setting						
Not in use						
Emergency Stop (Level signal)						
ON/OFF (Level signal)						
ON/OFF/Prohibit/Permit (Pulse signal)						

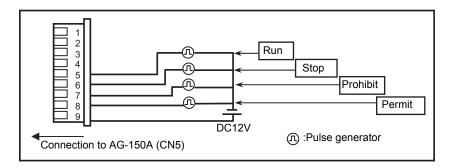
- (1) Select [Not in use] when not using the external input function.
- (2) Selecting [Emergency stop (Level signal)] makes it possible to stop multiple units by using a level signal. While this stop operation is being performed, operations such as running or stopping units are prohibited on the AG-150A unit or remote control.

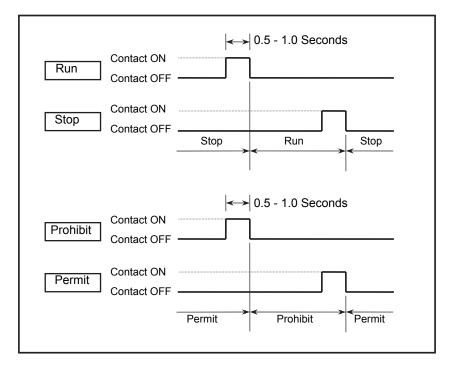


(3) Selecting [ON/OFF (Level signal)] makes it possible to run or stop multiple units using a level signal. In this mode, all air conditioner units connected to the AG-150A will be run or stopped and run/stop operations will be prohibited on the AG-150A unit or remote control.



(4) Selecting [ON/OFF/Prohibit/Permit (Pulse signal)] makes it possible to use pulse signals to run multiple units, stop multiple units, prohibit local operation and permit local operation. In this mode, it is possible to freely operate the remote control except during the prohibit pulse signal input.





4-2-3 Time Master Setting

Set the clock on each AG-150A to Master or Sub by selecting either Master or Sub next to "Time Master." If an Expansion Controller (PAC-YG50ECA) is used to connect two AG-150A controllers, the unit whose clock is set to Sub will automatically synchronize its clock to the unit whose clock is set to Master.

Note: Normally, set to Master.

Note: Of the AG-150A controllers that are connected to each Expansion Controller (PAC-YG50ECA), the "Time master" setting should be set to Master on only one AG-150A controller.

Time Master Master

4-2-4 Network Setting

In Network Setting, set the AG-150A IP address, subnet mask and gateway address. If connecting to the AG-150A via a permanent LAN, consult with the network administrator before setting these addresses.

Network Settings	
IP Address Subnet Mask Gateway	192 . 168 . 1 . 1 255 . 255 . 255 . 0
MAC Address	080070334242

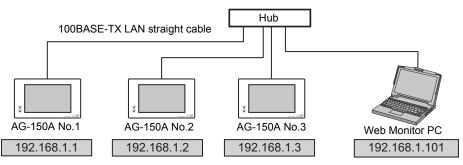
4-2-4-1 Settings for when the AG-150A is connected to a dedicated LAN

(1) Enter the AG-150A IP address in the [IP Address] field. If the LAN wiring has been newly set up, allocate IP addresses to the AG-150A units in a sequential order starting with [192.168.1.1]. For example the first AG-150A unit will receive an IP address of [192.168.1.1], the second AG-150A unit will receive an IP address of [192.168.1.2] and so on.

The Web Monitor PC that monitors and sets AG-150A will also require network addresses consistent with the rest of the LAN.

Note: When using a AG-150A dedicated LAN, it is recommended to set the IP address as follows. AG-150A: Between [192.168.1.1] and [192.168.1.40] Web Monitor PC: Between [192.168.1.101] and [192.168.1.150]

[Example of IP address setting]

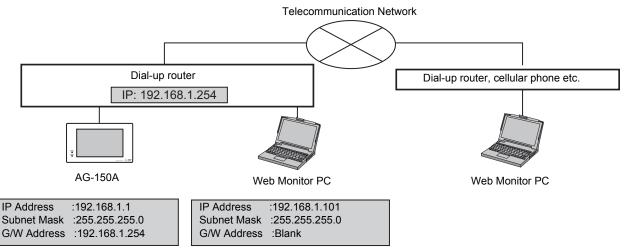


Note: Some hubs have a dedicated port for connection with another hub. Connect the AG-150A and Web Monitor PC to the normal ports.

- (2) Enter the AG-150A subnet mask in the [Subnet Mask] field. Normally, you should enter [255.255.255.0].
- (3) When monitoring remotely or sending error mail via a dial-up router, enter the router IP address in the [Gateway] field.

Leave the gateway address blank when not connecting via a dial-up router.

[Example of a Remote Monitoring System]



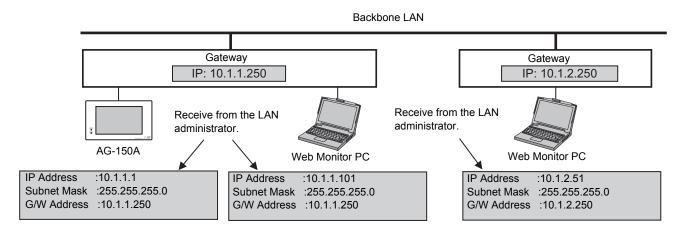
Note: It is recommended to set the dial-up router IP address to [192.168.1.254]. Refer to the dial-up router instruction manual for details of how to set the IP address.

Note: It is necessary to connect a modem (analog type or ISDN type) between the dial-up router and telephone line when using a dial-up router that does not have a built-in modem.

4-2-4-2 Settings for when the AG-150A is connected to an existing LAN

When connecting the AG-150A to an existing LAN, consult with the network administrator who is responsible for the LAN before setting the IP address, subnet mask, or gateway address.

[Example of a Permanent LAN System]



4-2-5 Setting the Display Format

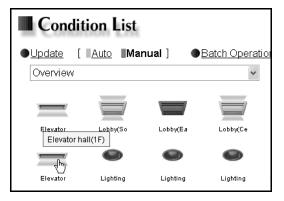
Set the items related to the screen display in the [Display Format] field.

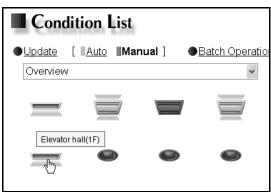
Display Format	
Unit of Temperature	<u>●°C</u>
Date Format	<u>31/12/2010</u> <u>12/31/2010</u> 2010/12/31
Time Format	06:00 PM 18:00
Group Names on Overview Monitor	ON OFF
Filter Sign Display	ON OFF
Room temperature	Always show Show during operation Hide

(1) In the [Unit of Temperature] section, select between [°C] and [°F] as the unit of temperature.

- (2) In the [Date Format] section, select the display order of year/month/day. The date will be displayed in the selected order on the Web screen or on the mail screen.
- (3) In the [Time Format] section, select the display of time format. The time will be displayed in the selected format on the Web screen.
- (4) In the [Group Names on Overview Monitor] section, select [ON] to display the group name under the icon on the [Monitor / Operation (Overview)] screen and select [OFF] not to.

Note: Up to 8 letters are displayed under the icon. To display all letters, move the cursor to the icon.





With the display of group names

Without the display of group names

- (5) In the [Filter Sign Display] section, select whether to display the filter sign. Select [ON] to display the filter sign and [OFF] not to.
 When the filter sign display is set to "OFF," the filter sign on neither the LCD of the AG-150A nor the monitor screen on the Web browser will appear, even when the indoor unit detects a filter sign. If the filter is regularly cleaned and the filter sign display is unnecessary, set it to [OFF].
- (6) From the options available for [Room temperature], select the desired temperature display option to be used on floor layout and block list displays of the [Monitor/Operation (Overview)] window. Select [Always show] to display the temperature at all times, [Show during operation] to display the temperature only during operation, and [Hide] not to display the temperature.

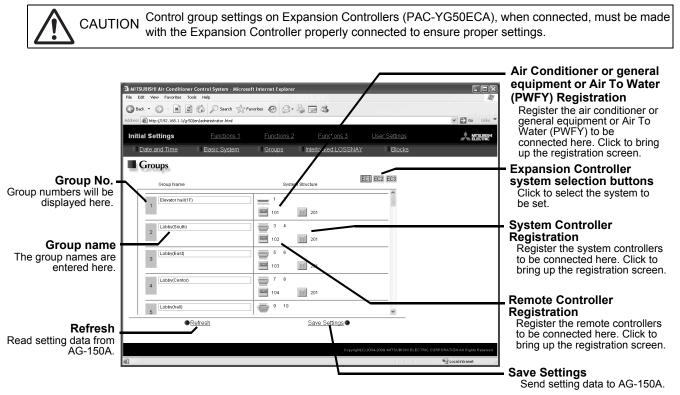
Note:Set the display format for [Room temperature] on the LCD on the LCD Setting screen.

Note: The room temperature can be displayed only in the "block list displays".

4-3 Group Setting

Display the page needed to register the group of air conditioners, Ventilator (LOSSNAY), Air To Water (PWFY), or general equipment to be connected to the AG-150A and to set the group name by clicking [Initial Settings]-[Groups]. On this page, you perform the basic setting such as the AG-150A unit name, network setting and M-NET setting. Click [Set to AG-150A] to send setting data to the AG-150A.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Note: If the user logs in as a building manager, some of the operations may be prohibited.
- Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.
- Note: A contact on the genera interface device is regarded as one unit.
- Note: Air-conditioners and general equipment cannot be in the same group.
- Note: Remote controllers or system controllers cannot be connected to general equipment.
- Note: When connecting multiple AG-150A controllers by connecting an Expansion Controller, all controllers must have the same control group settings.



4-3-1 Setting the Group Name

In the [Group Name] field on the screen, register the group name to be displayed on the Web screen, using a name consisting of no more than 20 characters.

Note: The following characters cannot be used in the group name: < > & " '

4-3-2 Registering air conditioner or Air To Water (PWFY) units in the group

(1) To register air-conditioners, clicking the [Air Conditioner or general equipment or Air To Water (PWFY) Registration] field next to each group in the [Groups] screen will bring up the [Select Unit Addresses] screen. Click on the numbers corresponding to the units

Addresses screen. Click on the numbers corresponding to the units to be registered.

All selected units will be shown with a yellow-green background.

To cancel the selection, click on them again. Deselected items will be shown with a gray background.

- Note: A maximum of 16 air conditioner units can be registered in one group.
- Note: To change the registered units to air-conditioners in the group in which general equipment is registered, disconnect the general equipment first.

Note: When registering LOSSNAY, select [Air-conditioners/Air To Water].

(2) To change the icon, click the right or left arrow.

∃nt	rance	9							=		
œ	Air-c	ondit	ioner	s / Air	to wa	ater					
C	Gen	eral B	Equip	ment	(via F	AC-Y	G66E	CA)			
	Unit	Addre	esses	3							
	1	2	3	4	5	6	-7-	8	9	10	
	11	12	13	14	15	16	17	18	19	20	
	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	49	50	
	ance	. 1								ок	

(3) To register remote controllers in a group, click on the [Remote Controller Registration] field to display the [Select Unit Addresses] screen, and click on the numbers corresponding to the units to be registered. The ones that are selected will be shown with a yellowgreen background. To cancel the selection, click on them again. Deselected items will be shown with a gray background.

Note: A maximum of 2 remote controls can be registered in one group. Note: MA remote controls do not need to be registered to a group.

(4) To register system remote controllers in a group, click on the [System Controller Registration] field to display the [Select Unit Addresses] screen, and click on the numbers corresponding to the units to be registered. The ones that are selected will be shown with a yellow-green background. To cancel the selection, click on them again. Deselected items will be shown with a gray background.

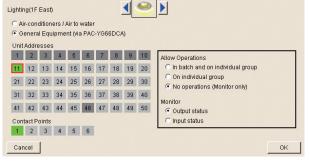
Note: The combined number of system controllers and remote controls cannot exceed four.

Note: K-transmission converters do not need to be registered.

4-3-3 Registering general equipment in the group

 To register general equipment in a group, click on the [Air Conditioner or general equipment or Air To Water (PWFY) Registration] field to display the [Select Unit Addresses] screen, and select the [General Equipment (via PAC-YG66DCA)].

Click the device No. of the DIDO controller (PAC-YG66DCA) that is connected to the general equipment to be registered. The selected No. will be displayed with a red frame (selected state), and select the contact points to which the general equipment is connected.



To disconnect the general equipment, select the interface Unit address, and click the contact points that have been selected. The contact points will be displayed in gray (unselected state).

Select Unit Addre

Note: A maximum of 16 general equipment can be registered in one group.

- Note: To change the registered units to general equipment in the group in which air-conditioners are registered, disconnect the air-conditioners first.
- (2) To change the icon, click the right or left arrow.
- (3) In the [Allow Operation] section, select whether to enable or disable the ON/OFF operation on the Web browser or on the TG-2000A operation screen. Select [In batch and on individual group] to enable only when the collective operation is performed. Select [On individual group] to enable in each group. Select [No operation (Monitor only)] to disable.
- (4) In the [Monitor] section, select whether to display output/input status to or from the general equipment on the monitor screen.

Belect Unit Addresses

E	ntrar	ice								
	101	102	103	104	105	106	107	108	109	110
	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130
	131	132	133	134	135	136	137	138	139	140
	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160
	161	162	163	164	165	166	167	168	169	170
	171	172	173	174	175	176	177	178	179	180
	181	182	183	184	185	186	187	188	189	190
	191	192	193	194	195	196	197	198	199	200
	Car	icel							С	K

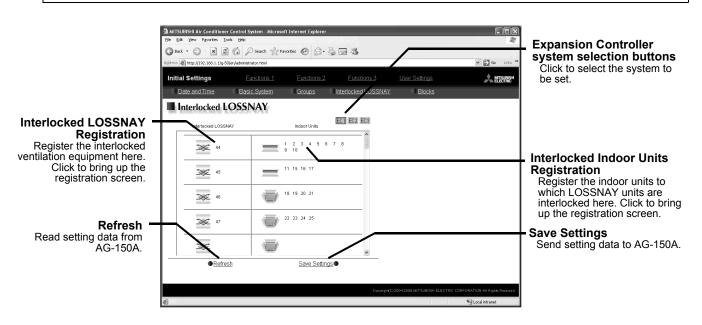
Gelect Unit Addresses										
Entrar	ice								0	
201	202	203	204	205	206	207	208	209	210	
211	212	213	214	215	216	217	218	219	220	
221	222	223	224	225	226	227	228	229	230	
231	232	233	234	235	236	237	238	239	240	
241	242	243	244	245	246	247	248	249	250	
Car	icel							С	ĸ	
Car	icel							С	K	

4-4 Interlocked Setting

To interlock the operation of LOSSNAY with the run/stop status of the indoor units, click on [Initial Settings]-[Interlocked LOSSNAY] in the menu to bring up the Interlocked LOSSNAY screen, and enter the interlock conditions. Click [Save Settings] to send setting data to the AG-150A.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: If the user logs in as a building manager, the operations may be prohibited.
- Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.
- Note: When connecting multiple AG-150A controllers by connecting an Expansion Controller, all controllers must have the same LOSSNAY unit interlocking conditions settings.

CAUTION LOSSNAY unit interlocking conditions settings on Expansion Controllers (PAC-YG50ECA), when connected, must be made with the Expansion Controller properly connected to ensure proper settings.



(1) Click in the Interlocked LOSSNAY registration field to display the [Select Unit Addresses] screen, and click on the numbers corresponding to the units to be registered. The ones that are selected will be shown with a yellow-green background. To cancel the selection, click on them again. Deselected items will be shown with a gray background.

Sele	ect a	Unit	Addre	ess							
l	1	2	3	4	5	6	7	8	9	10	
	11	12	13	14	15	16	17	18	19	20	
:	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	49	50	
	Can	cel]						С	K	

- (2) Click on the Interlocked Indoor Unit Registration field to display the [Select Unit Address] for the indoor units, and click on the numbers corresponding to the units to be registered. The ones that are selected will be shown with a yellow-green background. To cancel the selection, click on them again. Deselected items will be shown with a gray background.
 - Note: A maximum of 16 indoor units can be registered to operate with one ventilator.

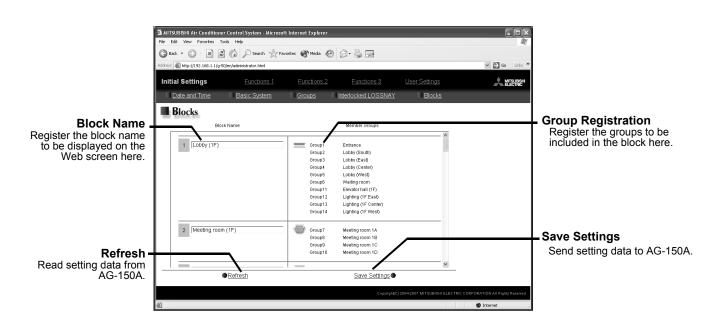
Select Unit Addresses								
Interlocked	LOSS	NAY	24					
1 2	3	4	5	6	7	8	9	10
11 12	13	14	15	16	17	18	19	20
21 22	23	24	25	26	27	28	29	30
31 32	33	34	35	36	37	38	39	40
41 42	43	44	45	46	47	48	49	50
Cancel	Cancel							

4-5 Block Setting

By performing block settings, multiples of air conditioner groups can be collectively monitored or operated from the Web or TG-2000A. It also enables energy-save/peak cut controls. Bring up the Block Setting screen by clicking [Initial Settings]-[Blocks] in the menu, and register the groups in the block to utilize these features. Click [Save Settings] to send setting data to the AG-150A.

Note: If the user logs in as a building manager, some of the operations may be prohibited.

Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.



4-5-1 Registering a block name

In the [Block Name] field on the screen, register the block name to be displayed on the Web screen, using a name consisting of no more than 20 characters

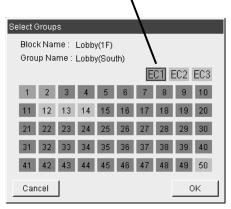
Note: The following characters cannot be used in the group name: < > & " '

4-5-2 Registering a group in a block

Click on the Group Registration field to display [Select Groups], and click on the numbers corresponding to the groups to be registered. The ones that are selected will be shown with a yellow-green background. (Putting a cursor on the group number will display the group name.) To cancel the selection, click on them again. Deselected items will be shown with a gray background.

Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.

Expansion Controller system selection buttons



Functions 1 5

5-1 Error mail reports/E-mail communication

Click on [Functions 1] - [E-Mail] in the menu to open the [E-mail] window and make necessary settings to perform remote monitoring via mail, using error mail report or the maintenance tool.

Click [Save Settings] to send setting data to the AG-150A.

- Note: The use of the error mail report function requires a separate license registration.
 - Confirm on the license registration screen (refer to chapter 9) that the license registration has been completed.

Note: If the user logs in as a building manager, the operations may be prohibited.

	·	
	AMTSUBISHI Air Conditioner Control System - Microsoft Internet Explorer	
	File Edit View Favorites Tools Help	
	🚱 Back 🔹 🕥 - 🖹 🗟 🏠 🔎 Search 👷 Favorites 🜒 Media 🚱 🔗 - 🚔 🖂	
	Address 🗟 http://192.168.1.1/g-50/en/administrator.html	
	Initial Settings Functions 1 Euroctions 2 Euroctions 3 User Settings	
Mail Osman Information	E-Mail Peak Cut Measurement	
Mail Server Information — Set the mail server/DNS server information here.	E-Mail	E-Mail settings of AG-150A
mornation nere.	Outgoing Mail Server (BMTP) ImtrigStaco.jp. Use SMTP Authentication	The E-mail settings of
	Incoming Mail Server (POP3) *1 [pop.pf0.co.p DNS Server (Pfmary) 12 34 [56 [78]	AG-150A are set here.
	DNS Server (Secondary) 12 34 56 79 User ID 950	Error Mail Catting
Mail Communication -	M1: Required if you make use of Mail Communication Setting.	 Error Mail Settings
Setting	Interval of checking incoming mails	Set the error mail
Set the address of the mail	Error Mail Settings	destination here.
recipients here.	Mail Subject A/C Error at Mixubishi Building	
recipients nere.	Mail Communication Setting AG-150A can communicate with Maintenance Tool etc by e-mail Kind of Errors Unit Error	
	from the following addresses. I mainte@y50 co.p E-Mail Address 1 pervice@y50 co.p	
Refresh -		
Read setting data from AG-150A.	4 4 v	Save Settings
3 .	Green Save Settings	Send setting data to
	Altenasii Zala Selinide	AG-150A.
	Copyright(C) 2004-2008 MITSUBISHI ELECTRIC CORPORATION All Rights Reserved	
	a biternet	

5-1-1 Entering the E-Mail Information for the AG-150A

Enter the E-mail information provided by either the ISP or the LAN administrator.

Note: When sending E-mail via an ISP, a user contract with the ISP is required.

E-Mail Setting	s of AG-150A						
E-Mail Addres	ss mitsubishi@g50.co.jp						
User ID	g50						
Password	******						
Interval of che	Password Interval of checking incoming mails 1						

Make necessary settings based on the functions that are to be used, using the table below as a reference.

Functions					
Error Ma	il Report	Mail Com	munication		
	LICOS SMTD				

Table 5-1 Items that Require Settings t	o Be Made (E-Mail Settings of AG-150A)
	O De Made (L-Mail Settings Of AG-130A)

		Func	ctions	
	Error Ma	ail Report	Mail Comr	nunication
	No SMTP	Uses SMTP	No SMTP	Uses SMTP
Items	Authentication	Authentication	Authentication	Authentication
Mail Address	V	V	V	V
User ID		V	V	V
Password		V	V	V
Interval of checking incoming mails			V	V

5-1-2 Setting the Mail Server Information

Enter the mail server information provided by either the ISP or the LAN administrator.

Either the IP address or the host name (server name) can be entered in the mail server field.

Mail Server Information							
Outgoing Mail Server (SMTP)	smtp.g50.co.jp						
	Use SMTP Authentication						
Incoming Mail Server (POP3) *1	pop.g50.co.jp						
DNS Server (Primary)	12 . 34 . 56 . 78						
DNS Server (Secondary)	12 . 34 . 56 . 79						

Make necessary settings depending on the functions to be used, using the table below as a reference.

	Functions							
	Error Ma	ail Report	Mail Comr	nunication				
Items	No SMTP Authentication	Uses SMTP Authentication	No SMTP Authentication	Uses SMTP Authentication				
Outgoing Mail Server (SMTP)	V IP Address or Host Name	V Host Name	V IP Address or Host Name	V Host Name				
SMTP Authentication		V		V				
Incoming Mail Server (POP3)			V IP Address or Host Name	V IP Address or Host Name				
DNS Server (Primary)	(V) ^{*1}	V	(V) ^{*1}	V				
DNS Server (Secondary)	(V) ^{*1}	V	(V) ^{*1}	V				

Table 5-2 Items that Require Settings to Be Made (Mail Server Information)

*1: Not necessary if the IP address is used as the mail server address.

5-1-3 Setting the Error Mail Destinations

 Enter the title of the error mail that will be sent from AG-150A in the [Mail Subject] field. The title may contain a maximum of 40 characters. Error Mail Settings
Mail Subject A/C Error at Mitsubishi Building
Kind of Errors Unit Error User Settings
E-Mail Address 1 service@g50.co.jp
2
3
4
5
5

Note: The following characters cannot be used in the mail title: < > & " '

- (2) Choose the error type out of the following: [Unit Error], [Preliminary Unit Error], [Communication Error], [General Equipment] and [User Setting 1] through [User Setting 6]. Then enter the mail address of the recipient of the error mail.
- (3) To send error messages only upon occurrences of certain errors, click the User Setting button that appear when "User Setting 1" through "User Setting 6" are selected, and register the error codes to be reported in the user settings.

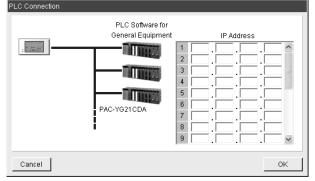
A maximum of 20 error codes can be set for each user setting. In addition to specific error codes such as [1302] or [6607], codes such as [10^{**}] or [12^{**}] can also be used. If [10^{**}] is set, for example, error mail will be sent upon an occurrence of any type of errors between [1000] and [1099]. If error codes are set on this screen, confirm that the address of the recipient is registered.

User Setting 1 (E	rror code:	s to be se	ent)								
No.	1	2	3	4	5	6	7	8	9	10	
Error Code	0012	01×2	0105	0123	0142	1111	2123	2134	4444	5656	
	1									•	
User Setting 2 (E	rror code	s to be se	ent)								
No.	1	2	3	4	5	6	7	8	9	10	
Error Code	2222										
	4									•	
User Setting 3 (E	ror code:	s to be se	ent)								
No.	1	2	3	4	5	6	7	8	9	10	
Error Code	3333										
	4									•	
User Setting 4 (E	rror code:	s to be se	ent)								
No.	1	2	3	4	5	6	7	8	9	10	
Error Code	4444										
	4									•	
User Setting 5 (E	rror code:	s to be se	ent)								

* When the same preliminary unit errors occur consecutively, the errors may not be able to be detected properly. Also, restoration information of the preliminary unit errors cannot be detected.

(4) To e-mail an error when an error occurs on general equipment connected to PLC for general equipment, click the PLC Connection button, which appears at the time of selection of "General Equipment", to set the IP address of PLC for general equipment.

The row number of the set IP address will be in an error mail as a PLC number. (Eg. When an error occurs on the No.20 PLC for general equipment that is in the second row, "PLC2-20" will be displayed on the error source.)



Note: TG-2000A is necessary to monitor the status of general equipment.

5-1-4 Setting the Addresses of the Recipient

To monitor and operate the unit with the maintenance tool via mail from a remote location, enter the mail address of the receiver in the [Mail Communication Setting].

A maximum of 10 addresses can be registered.

E-mail communication is possible only with the recipients whose addresses are registered on this screen.

5-1-5 Mail format

Error mails are sent in the format shown below.

AC	-15	mmunication Setting OA can communicate with Maintenance Tool etc by e-mail	
iru	1	ne following addresses. Imainte@q50.co.ip	~
	2	human of Beacestly.	-0
	3		
	4		~

From:Mitsubishi Building(000001)	
Date:11/09/2005 16:32:12	
Error unit:065	
Error code:1302	
Status:Occurrence	

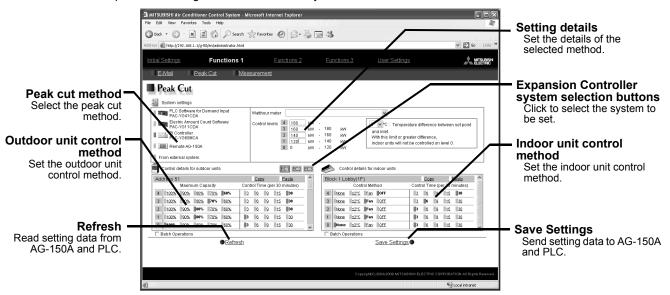
Item	Format	Remarks
Mail subject	Set subject	Refer to 5-1-3 (1) for the setting of mail subject.
From	AG-150A unit name and unit ID	Refer to 4-2-1 for the setting of AG-150A unit name and unit ID.
Date	dd/MM/yyyy hh:mm:ss	Date of error Note: The date format set in section 4-2-5 will be applied.
Error unit	 When an error occurs on air conditioners and general equipment M-NET address of the error source Note: If an Expansion Controller is connected, the unit in error will appear in the [Expansion Controller No. (1-3)]-[M-NET address] format. When an error occurs on general equipment that is connected to PLC for general equipment PLC number (1 to 20) + connection number of general equipment (1 to 32) When a communication error occurs on PLC for general equipment PLC number (1 to 20) 	PLC number indicates the row number on the setting screen shown in 5-1-3 (4). Note: When an error occurs on the general equipment that is connected via DIDO controller, M-NET address of the DIDO controller will be sent. (which means an error occurs on one of the general equipment that is connected to the DIDO controller)
Error code	4-digit error	When an error occurs on air conditioners Refer to the service manual for each unit. When an error occurs on general equipment 0091:General equipment error When a communication error occurs on PLC for general equipment 0003:LAN communication error to PLC 0007:PLC stop
Status	"Occurrence" or "Recovery"	Error status

5-2 Energy-Save Control and Peak Cut Control

Click on [Functions 1] – [Peak Cut] in the menu to bring up the peak cut control screen, and make necessary peak cut settings to use the energy-save or peak cut control function.

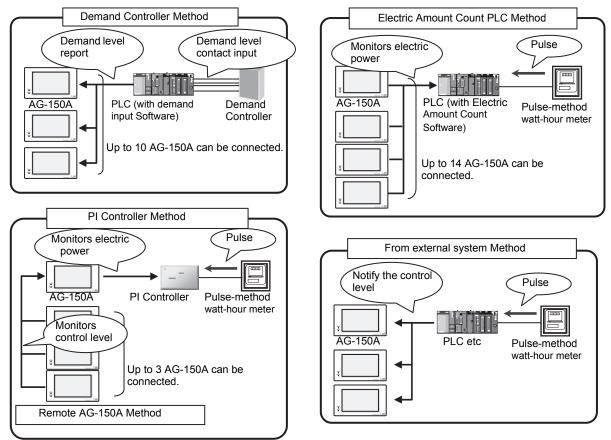
Click [Save Settings] to send setting data to the AG-150A.

- Note: Run the test run mode, and check that the equipment related to peak cut is connected properly to perform peak cut control.
- Note: The use of energy-save/peak cut control functions requires a separate license registration. Confirm on the license registration screen (refer to chapter 9) that the license registration has been completed.
- Note: If the user logs in as a building manager, some of the operations may be prohibited.
- Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, energy-save and peak-cut settings should be made only on one of the AG-150A controllers.



To enable peak cut, register the "Energy Management License Pack" to all AG-150A, and set the peak cut method and the indoor/outdoor units control methods. When the license is registered, the control can be performed in 5 degrees (Level 0-4).

To enable energy saving control at the constant rate, register the "Energy Management License Pack" to all AG-150A, and set the level to "0" in [Indoor/Outdoor unit control method] section.



Important: The amount of electricity that is actually used may exceed the demand value due to such unexpected incidents as controller problems or broken transmission lines. Mitsubishi will not be responsible for such incidents.

5-2-1 When Demand Controller Method is used

PLC Software for Demand Input PAC-YG41CDA Initialize	IP Address 192 . 168 . 1 . 171
Electric Amount Count Software PAC-YG11CDA	Controlled AG-150A 1 182 168 1 1
PI Controller PAC-YG60MCA	3 192 168 1 3 C : Temperature difference between set point
Remote AG-150A	4 182 1188 1 4 and inlet. 5 With this limit or greater difference,
From external system	6

- (1) To use Demand Controller Method, before using the PLC Software for demand input or Electric Amount Count Software, click on the PLC initialize button once to initialize the internal memory.
 - Note: Do not initialize the memory after the operation has begun, for it will clear all operation data.
- (2) Enter the IP address for the PLC software for demand input.
- (3) Enter the IP address of the AG-150A to which the demand levels are reported. A maximum of 10 addresses can be registered.
- (4) When the energy-save level is set to 0 (It is always set to level 0 in an energy-save control method), energy-save control will not be performed for the indoor units that show a greater difference between the set temperature and indoor temperature than the value set in the window on the right. Make the setting when some type of energy-saving control is effective at energy-save level 0 and the level of comfort is high on priority list. (Choose between 3 to 9)

5-2-2 When Electric Amount Count PLC Method (Amount Count Software) is used

PLC Software for Demand Input PAC-YG41CDA	IP Address	192 . 168 . 1 . 151
Electric Amount Count Software PAC-YG11CDA	DI Board	1 ▼ − 0 ▼ Pulse Unit 0 . 1 kWh / pulse
PI Controller PAC-YG60MCA	Control levels	4 180 kW - 3 160 kW - 180
Remote AG-150A		2 140 kw 160 kw and inlet. 1 1720 kw 140 kw With this limit or greater difference, 2 0 www 140 kw indoor units will not be controlled on level 0
From external system		0 0 kw - 120 kw

(1) To use Electric Amount Count PLC Method, before using the PLC Software for demand input or Electric Amount Count Software, click on the PLC initialize button once to initialize the internal memory.

Note: Do not initialize the memory after the operation has begun, for it will clear all operation data. (2) Enter the IP address of the electric amount count software.

(3) Select the terminal number of the DI board to which the watt-hour meter is connected. If it is connected to terminal 2 on DI board 1, select 1-2.

Note: Select an input board from either 1 or 2, and select an input terminal from 0 to F. Choose the terminal to which the watt-hour meter is connected that is used for peak cut.

(4) Enter the unit of the pulse that the watt-hour meter outputs.

Important: Set the value per pulse according to the watt-hour meter to be used. Check the values measured by the watt-hour meter several times on the hour and the half-hour. Then, be sure to check that the increase of the values measured by the watt-hour meter for 30 minutes and the average electric power of peak cut control are the same amount. (The average electric power of peak cut control can be checked on the browser for administrator or CSV file.)

* Refer to section 3.4.2 of the Instruction Book (Web browser for System maintenance engineer) for the average electric power of peak cut control.

(5) Determine the range of electricity use for each control level (demand level), taking into consideration such factors as delayed control of the air conditioner. Enter the value that is 10 to 15% below the maximum demand value (average electric energy value in 30 minutes) in the blank next to Level 4. Decrease the value by about 10 % for each level below. (The figure on the right shows the system with the maximum electric energy at 200 kW.)

Note: The best set point depends on the system configuration of the electric equipment and the indoor environment in each building. Choose appropriate set points accordingly.

(6) When the energy-save level is set to 0 (It is always set to level 0 in an energy-save control method), energy-save control will not be performed for the indoor units that show a greater difference between the set temperature and indoor temperature than the value set in the window on the right. Make the setting when some type of energy-saving control is effective at energy-save level 0 and the level

of comfort is high on priority list. (Choose between 3 to 9)

5-2-3 When PI Controller Method is used

PLC Software for Demand Input PAC-YG41CDA	Watthour meter Address50-4 Whm (Peakcut)	•
Electric Amount Count Software PAC-YG11CDA PI Controller PAC-YG60MCA Remote AG-150A From external system	Control levels 4 180 kW - 3 160 kW - 180 kW 2 140 kW - 180 kW 1 120 kW - 140 kW 0 0 kW - 120 kW	3 ■°C : Temperature difference between set point and inlet. With this limit or greater difference, indoor units will not be controlled on level 0.

(1) Select the PI controller to which the watt-hour meter used for peak cut control is connected.

Note: Only the watt-hour meters that have been registered on the Measurement screen can be selected.

Important: Set the value per pulse according to the measurement meter to be used. To check that the setting is correctly made, first check both the values measured by the measurement meter and by the PI controller, and after a certain time, check that the both values have increased at equal increments. (The value measured by the PI controller can be checked on the browser for the administrator.)

- (2) Determine the range of electricity use for each control level (demand level), taking into consideration such factors as delayed control of the air conditioner. Enter the value that is 10 to 15% below the maximum demand value (average electric energy value in 30 minutes) in the blank next to Level 4. Decrease the value by about 10 % for each level below. (The figure on the right shows the system with the maximum electric energy at 200 kW.)
 - Note: The best set point depends on the system configuration of the electric equipment and the indoor environment in each building. Choose appropriate set points accordingly.
- (3) When the energy-save level is set to 0 (It is always set to level 0 in an energy-save control method), energy-save control will not be performed for the indoor units that show a greater difference between the set temperature and indoor temperature than the value set in the window on the right. Make the setting when some type of energy-saving control is effective at energy-save level 0 and the level of comfort is high on priority list. (Choose between 3 to 9)

5-2-4 When Remote AG-150A Method is used

PLC Software for Demand Input PAC-YG41CDA	IP Address 182 . 168 . 1 . 1
Electric Amount Count Software PAC-YG11CDA	
PI Controller PAC-YG60MCA	3 ■°C : Temperature difference between set point and inlet
Remote AG-150A	With this limit or greater difference, indoor units will not be controlled on level 0.
From external system	

- (1) Enter the IP address of the AG-150A to which the PI controller (with the connection to the watt-hour meter used for peak cut control) is connected.
 - Note: As the control level of AG-150A to which the watt-hour meter is connected is monitored every minute, the control level changes after a delay of approx. one minute. Take this delay into consideration, and set the control level without exceeding the range of peak cut electricity.
 - Note: Only up to three AG-150A can be connected to the AG-150A to which the watt-hour meter is connected. When five or more AG-150A are used in a system, use electric amount count PLC method mentioned in 5-2-2.
- (2) When the energy-save level is set to 0 (It is always set to level 0 in an energy-save control method), energy-save control will not be performed for the indoor units that show a greater difference between the set temperature and indoor temperature than the value set in the window on the right.

Make the setting when some type of energy-saving control is effective at energy-save level 0 and the level of comfort is high on priority list. (Choose between 3 to 9)

5-2-5 When From external system Method is used

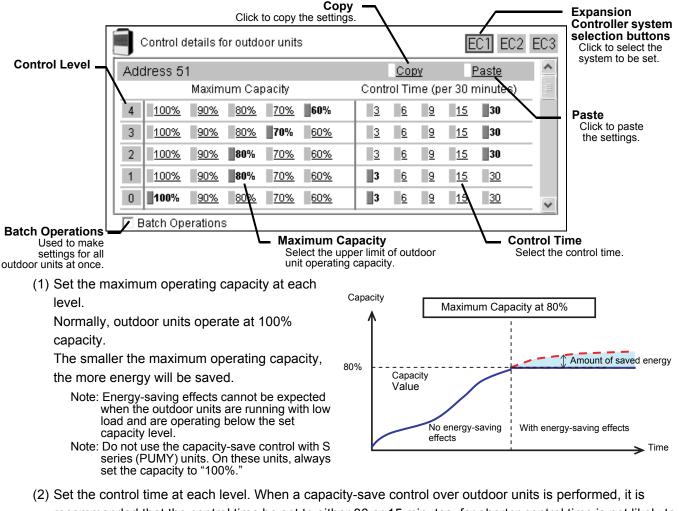
PLC Software for Demand Input PAC-YG41CDA Electric Amount Count Software PAC-YG11CDA PI Controller PAC-YG60MCA Remote AG-150A	3 ■ °C : Temperature difference between set point and inlet. With this limit or greater difference, indoor units will not be controlled on level 0.	
From external system		

(1) When the energy-save level is set to 0 (It is always set to level 0 in an energy-save control method), energy-save control will not be performed for the indoor units that show a greater difference between the set temperature and indoor temperature than the value set in the window on the right.
 Make the setting when some type of energy-saving control is effective at energy-save level 0 and the level of comfort is high on priority list. (Choose between 3 to 9)

5-2-6 Setting the Outdoor Unit Control Method (All methods)

Make the energy-save control setting for the outdoor units for each energy-save level.

- Note: M-NET addresses are displayed on outdoor units of City multi type. M-NET addresses and group names are displayed on A-control units (Slim units).
- Note: As for A-control outdoor units, only the inverter models can be put on the energy save control. Do not make the energy save settings for the constant speed models.



(2) Set the control time at each level. When a capacity-save control over outdoor units is performed, it is recommended that the control time be set to either 30 or 15 minutes, for shorter control time is not likely to bring much benefit.

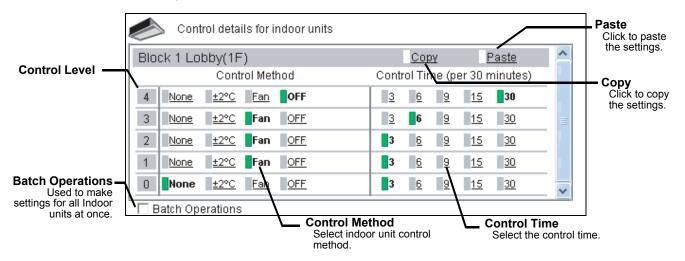
If any time other than "30-minute" is selected, the control is done on rotation so as to avoid the overlapping of control time of the connected outdoor units as much as possible.

(3) To copy the settings for a certain outdoor unit to another outdoor unit, click [Copy] so the selected items are shown in yellow-green, and click [Paste] on the screen for the target outdoor unit. To make settings for all the outdoor units at once, check [Batch Operations], and enter the settings. Uncheck [Batch Operations] by clicking on the box again to enable the individual setting of the outdoor units.

5-2-7 Setting the Indoor Unit Control Method (All methods)

Make the energy-save control settings for the Indoor units for each energy-save level.

The settings are made for each operation block. If the operation blocks have not been set up, refer to section 4-5 on how to set the operation blocks.



(1) Set the control method for each level. Fan control can be performed without letting the users know that the energy-save control is performed because it performs thermo-off control of the indoor units and the mode display on the remote controller LCD will not change.

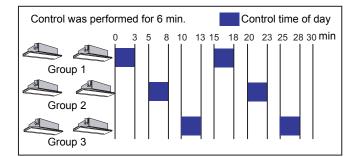
The modes on the K-control models and the models before free plan will change to "Fan."

Table 5-4 Indoor Unit Control Method

Control Method	Type of Control
N/A	No control is performed.
±2°C/±4°F Control	 Cooling/dry : +2°C/+4°F; Heating : -2°C/-4°F (No control during fan/auto) Note: Shifts to a ±2°C/±4°F control at control begin time, and goes back to the normal setting at control end time. Note: When temperatures are displayed in Fahrenheit, temperatures may not properly be displayed in ±4°F increments because ±2°C Control is executed and then Celsius temperature is converted into Fahrenheit temperature inside the controller. Note: The temperature is controlled only within the set range of the indoor unit.
Fan Control	Performs "capacity save 0% control (thermo OFF)" on free-plan indoor units and A-control slim indoor units, and performs fan operation control on the K-control units and the units before free-plan units. Note: Switches to thermo OFF or Fan mode at control begin time, and switches back to the original state at control end time.
Stop Control	Stops the indoor units Note: Sends [Stop] at control begin time, and goes back to the original run/stop status at control end time. Note: If set to [30 minutes][Stop], the groups that are being controlled cannot be operated from any controller.

(2) Set the control time for each level.

The unit of control is 3 minutes. If "6 minutes" is selected, 3 minutes of control is performed twice during each 30 minute period. If any time other than "30-minute" is selected, the control is done on rotation so as to avoid the overlapping of control time of the connected outdoor units as much as possible.



(3) To copy the settings for a certain operation block to another operation block, click [Copy] so the selected items are shown in yellow-green, and click [Paste] on the screen for the target operation block. To make settings for all the operation blocks at once, check [Batch Operations], and enter the settings. Uncheck [Batch Operations] by clicking on the box again to enable the individual setting of operation blocks.

(4) Click [Save Settings] to send setting data to the AG-150A.

5-3 Settings for measurement

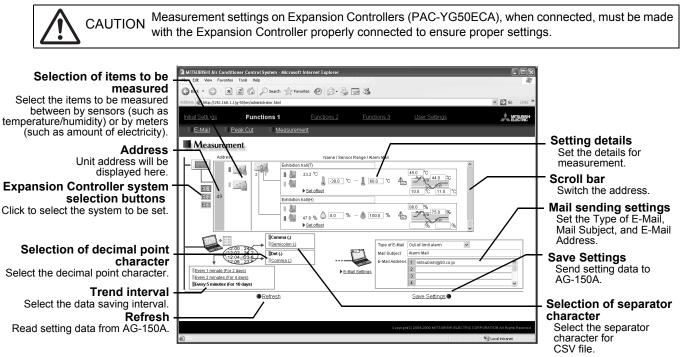
To measure the temperature or the amount of electricity, click the [Function1]-[Measurement] in the menu, and open the Measurement screen. Settings for controllers used for measurement can be made.

After the settings are made, click [Save Settings] to send setting data to AG-150A.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: To use the measurement data for energy saving (peak cut) control, the energy saving (peak cut) license must be registered. Check that the license have been registered properly on the license registration screen (refer to chapter9). It is not necessary to register the license to display the present measurement data or trend graph or to send an error mail.

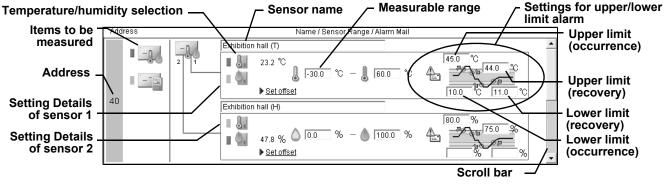
Note: If the user logs in as a building manager, some of the operations may be prohibited.

Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, measurement settings should be made only on one of the AG-150A controllers.



5-3-1 Registering AI controllers for temperature/humidity sensors

System settings for measurement sensors can be made. Up to two temperature/humidity sensors can be connected to one AI controller (PAC-YG63MCA).



(1) Use the scroll bar, and select the address to which the AI controller (PAC-YG63MCA) is connected.

(2) Select the icon of the AI controller (-) in the column of items to be measured.

Note: To disconnect the AI controller, click the icon of the AI controller that has been selected. The icon will be in unselected state.

(3) Enter the name of the sensor.

- (4) Select either the temperature icon () or the humidity icon ().
- (5) Enter the measurable range of the temperature or of the humidity.
 - Note: When the Pt sensor is connected, the range must be between -30°C/-22°F and +60°C/+140°F. When the sensors other than the Pt sensors are connected, enter the ranges that are described in the operation manuals.

(6) To receive an e-mail when the temperature or the humidity exceeds a certain value, set the upper/lower limit alarm values (occurrence, recovery).

Note: To avoid repeating occurrence and recovery, it is recommended that the difference between the occurrence value and the recovery value is approx. 1°C/2°F.

5-3-2 Adjusting the measured temperature/humidity values

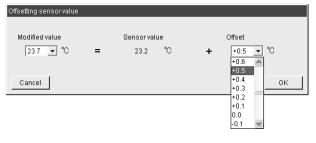
When the adjustment of the measured values is necessary because of the location of the sensor, follow the procedures below.

Note: The present measurement value or the adjusted measurement value are not displayed until the connection settings of the AI controller are completed.

When the AI controller is registered for the first time, click the [Save Settings] button to send setting data, and click [Function 1]-[Measurement] to display the screen again.

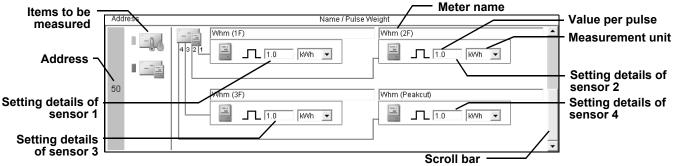
- (1) Click the [Set offset] in the [Setting details] section.
- (2) Select the adjustment value in the [Offset] pulldown or select the value to be desired in the [Modified value] pulldown.

The adjustable range is between -10.0°C/-18.0°F and +10.0°C/+18.0°F), -10.0% and +10.0%.



5-3-3 Registering PI controllers for measurement by meters

System settings for measurement meters can be made. Up to four meters can be connected to one PI controller (PAC-YG60MCA).



- (1) Use the scroll bar, and select the address to which the PI controller is connected.
- (2) Select the icon of the PI controller (_____) in the column of items to be measured.

Note: To disconnect the PI controller, click the icon of the PI controller that has been selected. The icon will be in unselected state.

- (3) Enter the name of the meter.
- (4) Enter the value per pulse (measurement value per pulse) of the connected meter, and select the unit. Note: The measurement unit can be selected between [kWh], [m3], [MJ] and [--(no unit)].

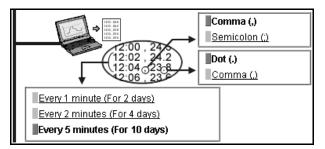
Note: Select the blank in the measurement unit pulldown for the meter not to be used.

Ilmportant: Set the value per pulse according to the measurement meter to be used. To check that the setting is correctly made, first check both the values measured by the measurement meter and by the PI controller, and after a certain time, check that the both values have increased at equal increments. (The value measured by the PI controller can be checked on the browser for the administrator.)

5-3-4 Setting the trend data format

The data format to be used when the trend graph data of the measured value is downloaded or is sent by e-mail can be set.

- (1) Select the separator character between [Comma (,)] and [Semicolon (;)].
- (2) Select the decimal point character between [Dot (.)] and [Comma (,)].
- (3) Select the trend data interval between [Every 1 minute (for 2 days)], [Every 2 minutes (for 4 days)], and [Every 5 minutes (for 10 days)]. The period of time that the trend graph can be displayed on the trend graph screen varies depending on the data interval.



5-3-5 Setting the destination to which an error mail is sent

To receive an e-mail when the temperature or the humidity exceeds a certain value, make the error mail sending settings.

- Select [Out-of-limit alarm] in Type of E-Mail pulldown, and enter the Mail Subject and the E-Mail Address.
 - Note: The following characters cannot be used in the mail title: < > & " '

	Type of E-Mail	Out-of-limit alarm]
2		Alarm Mail	
	E-Mail Address	1 mitsubishi@g50.co.jp	~
E-Mail Settings		2	
		4	-

The following format will be applied when the alarm mail is sent.

	From: Mitsubishi Building(000001)
	Date/Time: 23/01/2007 09:38:39
	Address: 50-1
	Current value: 24.9 deg C
	Status: Exceeded lower limit
	Trend Data:
	09:38 25.2 deg C
	09:37 25.4 deg C
	09:36 25.6 deg C
	09:35 25.8 deg C
	09:34 26.1 deg C
	09:33 26.4 deg C
	09:32 26.7 deg C
	09:31 27.0 deg C
	09:30 27.5 deg C
	09:29 27.7 deg C
ļ	

Item	Format
From	AG-150A name + Unit ID Note: Refer to section 4-2-1 for the settings of the AG-150A name and unit ID.
Date/Time	yyyy/MM/dd hh:mm:ss Note: The date format set in chapter 4-2-5 will be applied.
Address	M-NET address of AI controller + sensor No. Note: If an Expansion Controller is connected, the address will appear in the [Expansion Controller No. ()]-[M-NET address of AI controller]-[Sensor No.] format.
Current value	Present temperature or humid (one place of decimals) Note: The present value may be [**.*] until the value measured by sensor becomes stable.
Status	" Exceeded upper limit ", " Recovered from upper limit ", " Exceeded lower limit ", or " Recovered from lower limit "
Trend Data	Time + Temperature or humidity (for the last 10 minutes)

(2) Click the [E-Mail Settings] to set the mail server information.

Note: The setting details are the same as those mentioned in the chapter 5-1-1 and 5-1-2. Refer to those chapters.

* ****	
E-Mail Settings of AG-1	50A
E-Mail Address g50@	g50.co.jp
User ID g50	
Password ****	
Mail Server Informatio	
	· · ·
Mail Server Informatio	· · ·
Mail Server Informatio	n SMTP) [smtp.g50.co.jp

5-3-6 Setting the destination to which temperature/humid trend data mail is sent

To send temperature/humid trend data by mail once a day (when the date changes), make the mail sending settings. The trend data is sent as an attachment CSV file.

- Select the [Trend Data] in the Type of E-Mail pulldown, and enter the Mail Subject and the E-Mail Address.
 - Note: The following characters cannot be used in the mail title:
 - < > & "'

	Type of E-Mail	Trend Data	
<u>}</u>	Mail Subject	Trend Data Mail	
	E-Mail Address	1 mitsubishi@g50.co.jp	~
E-Mail Settings		2	
		3	
		4	~

The following format will be applied to the attachment file attached to the mail that is sent when the date changes.

121 23/01/2007 Address 50-1 Time,Temperature(deg C) 00:00,20.3 00:05,20.1 00:10,19.8 00:15,19.3 :	
00:15,19.3 :	
23:50,18.8 23:55,18.5	

Item	Format
File Type	121: Temperature data 122: Humidity data
Date	dd/MM/yyyy Note: The date format set in section 4-2-5 will be applied.
Trend target	M-NET address of AI controller + sensor No. Note: If an Expansion Controller is connected, the trend target will appear in the [Expansion Controller No. ()]-[M-NET address of AI controller]-[Sensor No.] format.
Measured item	"Time,Temperature (deg C)" or "Time,Humidity (%)"
Data	Time, Measurement data Note: The data interval, separator character, decimal point character that are set in section 5-3-4 will be applied.

- (2) Click the [E-Mail Settings] to set the mail server information.
 - Note: The setting details are the same as those mentioned in the chapter 5-1-1 and 5-1-2. Refer to those chapters.

E-Mail Settings	
E-Mail Settings of AG-150A	
E-Mail Address g50@g50.co.jp	
User ID g50	
Password ****	
Mail Server Information	
Outgoing Mail Server (SMTP) smtp.g50.co.jp	=
Use SMTP Authentication	
DNS Server (Primany) 12 . 34 . 56 . 78	
DNS Server (Secondary) 12 . 34 . 56 . 79	
Cancel	ок

6 Functions 2

6-1 Limiting the Set Temperature Operating Range

Click on [Function2]-[Set Temperature Range Limit] in the menu to open the set temperature range limit screen, and make necessary settings to limit the set temperature operating range of the local remote controller.

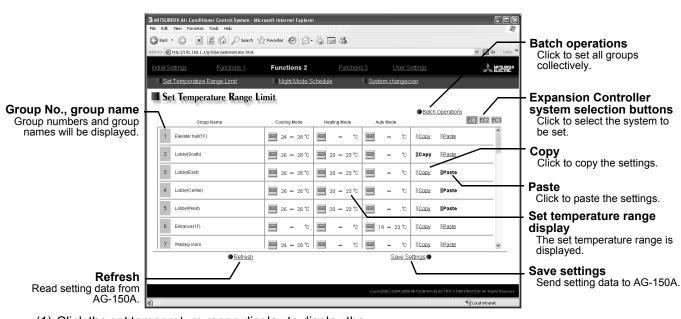
Each user operation will be limited by setting the lower limit and the upper limit of the set temperature for cooling operation, which leads to energy saving.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: The set temperature range can be limited on the following remote controllers. *1 ME remote controller (PAR-F27MEA-E) : Lower limit for cooling mode and upper limit for heating mode ME remote controller (PAR-F27MEA-F) : Lower and upper limit for cooling, heating and automatic mode Simple ME controller (PAC-SE51CRA-F) : Lower and upper limit for cooling, heating and automatic mode MA remote controller (PAR-21MAA) *2 : Lower and upper limit for cooling, heating and automatic mode Simple MA controller (PAC-YT51CRB) *2 : Lower and upper limit for cooling, heating and automatic mode
 - *1: The operation mode that can be set varies depending on the unit model.
 - *2: This function cannot be used depending on the indoor unit model.
- Note: The set temperature range for all modes can be limited on the browser operation screen (for administrator), AG-150A operation screen, and TG-2000A operation screen regardless of any settings being made. (The setting made on personal browser operation screen is in effect on the personal screen.)

Note: If the user logs in as a building manager, some of the operations may be prohibited.

Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, temperature range limit settings should be made only on one of the AG-150A controllers.

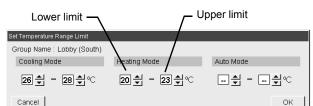
CAUTION Temperature range limit settings on Expansion Controllers (PAC-YG50ECA), when connected, must be made with the Expansion Controller properly connected to ensure proper settings.



 Click the set temperature range display to display the setting screen. Set the temperature range for cooling, heating and automatic mode.

Click [OK] to return the previous screen.

Note: When temperatures are displayed in Fahrenheit, temperatures are displayed in 2 °F increments while Batch Operations are selected. Even when Batch Operations are not selected, temperatures are displayed in 2 °F increments, depending on the indoor units and remote controllers connected.



(2) Click [Save Settings] to send setting data to AG-150A.

Note: When copying settings of a group to another group, click [Copy] button. The screen will change to a selection screen (yellow-green). Click [Paste] on a group to be copied.

Note: When setting all groups collectively, click [Batch operation] button, and input settings.

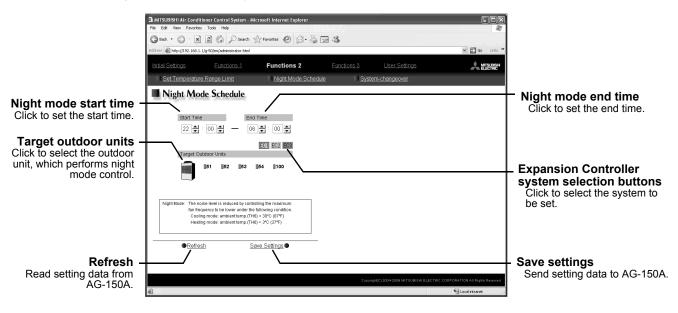
6-2 Night Mode (Silent Mode) Schedule

Click on [Function2]-[Night Mode Schedule] in the menu to open the night mode schedule screen and make necessary settings to switch the outdoor unit operation mode to the night mode (low-noise operation), and set the night mode time interval.

Use this mode when low-noise operation of the outdoor unit is preferable during night.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: Make this setting only when all the units operate normally. When connection error occurs at the indoor or the outdoor unit, night mode target units may not be displayed normally.
- Note: The noise level to be reduced varies depending on the unit model.
- Note: If the user logs in as a building manager, the operations may be prohibited.

Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, night-mode settings should be made only on one of the AG-150A controllers.



- Set the time interval in [Night mode start time] and [Night mode end time].
 Note: When the starting time and the ending time is the same, night mode operation will always be performed.
- (2) Select the outdoor unit, which performs night mode operation from [Target outdoor units]. Note: M-NET address numbers for each outdoor unit are displayed in the target unit field.
- (3) Click [Save Settings] to send setting data to the AG-150A.

6-3 System-Changeover of Y series

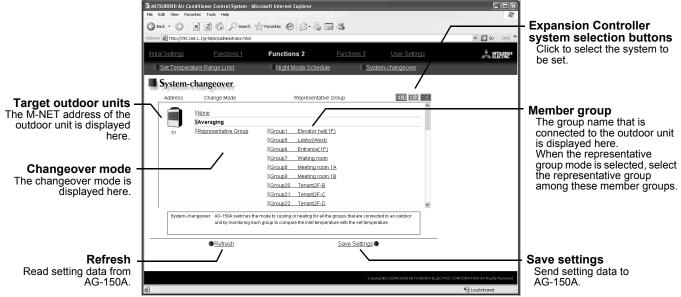
Click on [Function2]-[Auto-changeover] in the menu to open the auto-changeover screen and make necessary settings to switch the operation mode between cooling and heating automatically of the indoor units connected to the same outdoor unit. Set the change over mode and the target units.

Please use this function when performing heating operation in the morning and cooling operation in the afternoon on air conditioners that either of cooling or heating operation is possible (Y series). The operation mode changes automatically without the need of operating all remote controllers.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: The operation mode (cooling or heating) is set by the majority decision in consideration of performance value of each unit, or on the basis of the operation mode of the representative group. Therefore, some rooms may be hotter or colder than others.

Note: If the user logs in as a building manager, the operations may be prohibited.

- Note: Set the indoor unit operation mode to [Auto] on the Auto-Changeover models (R2 series). (It is not necessary to change the mode on this screen.)
- Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, autochangeover settings should be made only on one of the AG-150A controllers.



(1) Select the change mode of the target outdoor unit. When selecting the representative group mode, select one representative group among the member groups.

Table 6-1	Change Mode List	

Change mode	Content
None	Select this when the function is not used.
Averaging	The operation mode (cooling or heating) is set and changed by the majority decision in consideration of the set temperature, the room temperature difference of all groups connected to the target outdoor unit, and capacity value of each indoor unit.
Representative Group	Changes the set temperature of the representative group, and the operation mode of the member group in accordance with the temperature difference.

(2) Click [Save Settings] to send setting data to the AG-150A.

7 Functions 3

7-1 External Temperature Interlock

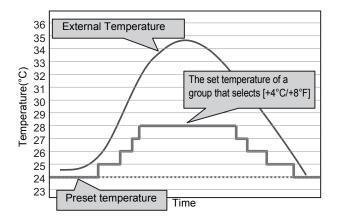
To use external temperature interlock, click [Function 3] on the menu, and then click [External Temperature Interlock]. Air conditioning group can be set for this control.

By setting this control on the air conditioning unit at an entrance, our physical shock (heat shock) caused by the extreme temperature difference can be reduced when entering into a building.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: Connect our AI controller (PAC-YG63MCA) to measure outdoor temperature.
- Note: This function works when the operation mode is [cooling] or [dry].
- Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, external temperature interlock settings should be made only on one of the AG-150A controllers.

	2 MITSUBJEH Air Conditioner Control System - Microsoft Internet Explorer Image: Control System - Microsoft Internet Explorer Die Gitt yww Favoriter (ook tjeb) Image: Control System - Microsoft Internet Explorer Control Status Image: Control System - Microsoft Internet Explorer Initial Settings Euroclones 1 External Temperature Interlook Initial Settings	201 19
External Temperature Sensor Select a sensor that measures outside	External Temperature Interlock Aternal Temperature Sensor 49-2 Outdoor temperature Control Object Group	Expansion Controller system selection buttons Click to select the system to be set.
temperature. Group number, group - name Displays group number and group name.	Group Name Set Temperature Variation Range Elevator hall(IF) INone #±100 #±200 #±400 2 Lobby(South) INone #±100 #±200 #±400 3 Lobby(East) INone #±100 #±200 #±400 4 Lobby(Centor) INone #±100 #±200 #±400	Set temperature variation range Select a maximum additional temperature to the preset temperature.
Refresh _ Read setting data from AG-150A.		Send settings Send setting data to AG-150A.

- (1) Click external temperature sensor area to choose the sensor. The area displays [controller address + sensor number + sensor name].
- (2) Select a maximum additional temperature to the preset temperature for each air conditioning group. For example, when [+4°C/+8°F] is selected and the preset temperature is 24°C/75°F, the maximum set temperature will rise to 28°C/83°F along with outdoor temperature rise. When [+2°C/+4°F] is selected, the maximum set temperature will rise to 26°C/79°F.
- (3) After the setting, click the Save Settings button to send the setting data to AG-150A. When external temperature interlock is active, the set temperature of air conditioning group is shown below.



External Temperature	Set Temperature
External Temperature ≥ Preset temperature+1.5°C/+2.7°F	Preset temperature+1°C/+2°F
External Temperature ≥ Preset temperature+4.5°C/+8.1°F	Preset temperature+2°C/+4°F
External Temperature ≥ Preset temperature+6.5°C/+11.7°F	Preset temperature+3°C/+6°F
External Temperature ≥ Preset temperature+7.5°C/+13.5°F	Preset temperature+4°C/+8°F

Note: When temperatures are displayed in Fahrenheit, +2, +4, +6, +8 °F may not properly be displayed because +1, +2, +3, +4°C Control is executed and then Celsius temperature is converted into Fahrenheit temperature inside the controller.

7-2 Night setback control

To use Night setback control (abbreviated to setback control below), click [Functions 3] on the menu, and then click [Setback Control]. Air conditioning group can be set for this control.

This control prevents indoor dew by heating automatically when the room temperature goes outside of the specific range during the night.

- Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.
- Note: This control starts heating operation when the control object group stops and the temperature drops below the Min. temperature. Also this control starts cooling operation when the control object group stops and the temperature rises above the Max. temperature.
- Note: If the room temperature is measured by the air-conditioner's suction temperature sensor, the temperature may not be correct when the air-conditioner is inactive and the air is not fresh. When the temperature is not measured correctly, switch the sensor to external temperature sensor (PAC-SE40TSA) or remote control sensor.
- Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, set back settings should be made only on one of the AG-150A controllers.

	INITUUSISHI Ar Conditioner Control System Microsoft Internet Explorer Image: Control System Microsoft Internet Explorer Ce Ed. Yew Fawtes Tools (seb Image: Control System Microsoft Internet Explorer Ce Ed. Yew Fawtes Tools (seb Image: Control System Microsoft Internet Explorer Ce Ed. Yew Fawtes Tools (seb Image: Control System Microsoft Internet Explorer Ce Ed. Yew Fawtes Tools (seb Image: Control System Microsoft Internet Explorer Ce Ed. Yew Fawtes Tools (seb Image: Control System Microsoft Internet Explorer Initial Settings Eunctions 1 Eunctions 2 Functions 3 User Settings	Control temperature range Max./Min. temperature for setback control can be set.
Setback usability Select setback usability. –	External Temperature Interfock Night Setback Control setback Control	
Setback control period Set the setback control – period.	IUse 이 승 ···································	Expansion Controller system selection buttons Click to select the system to be set.
Group number, group	Image: Construction Image: Imag	3Cl.
name Displays group number and	6 Entrance(1F) 12 € 0 € 0 ILCopy IlPaste	
group name.	7 Watting room 12 ♣ ७ - 28 ♣ ७ ILCopy IlPaste	
	8 Meeting room 1A 12 ♣ ℃ ♣ ℃ ICopy IPaste	
Refresh – Read setting data from	Grefresh Save Settings	Save settings Send setting data to AG-150A.
AG-150A.	Copyright(5) 2004-2008 MITSUBISHI ELECTRIC CORPORATION All Right Reserved	

(1) Select [Use] and set the setback control period.

Note: When [00:00 - 00:00] is set, setback control is active for 24 hours.

(2) Set the control temperature range (Max. and Min.) for each group. For example, suppose [01:00 -

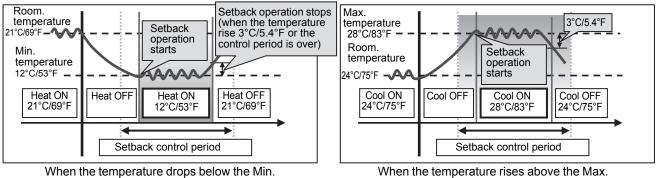
05:00][12°C - --°C/53.6°F - --°F] is selected. In this case, heating operation starts automatically when the

room temperature drops below 12°C/53°F between 1:00 to 5:00. When the control period is over at 5:00,

the set temperature returns to the original and the operation stops.

- Note: During setback operation after the temperature drops below the Min. temperature, when the control period is over or the room temperature rises to <Min. temperature + 3°C/+5.4°F>, the setback control and air conditioning unit stop and the set temperature returns to the original. In the same way, during setback operation after the temperature rises above the Max. temperature, when the control period is over or the room temperature drops to < Max. temperature 3°C/-5.4°F>, the setback control and air conditioning unit stop and the original.
- Note: When copying settings of a group to another group, click [Copy] button. The screen will change to a selection screen (yellow-green). Click [Paste] on a group to be copied.
- Note: The CITY MULTI model supports a temperature setting range of 12-28°C / 53-83°F when in Heat mode. (When S series (PUMY) is used, set the temperature at 17-28°C / 63-83°F in heat mode.)
- (3) Click [Save Settings] to send setting data to AG-150A.

When setback control is active, air conditioning group operates as shown below.



temperature (heating control)

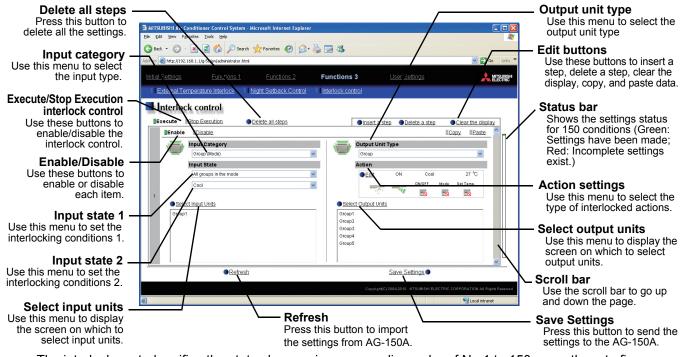
/hen the temperature rises above the Max. temperature (cooling control)

7-3 Interlock control

To use Interlock control, click [Functions 3] on the menu, and then click [Interlock control]. Interlock conditions and actions can be set.

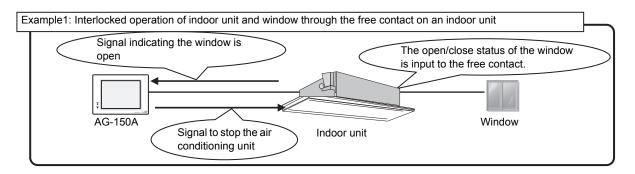
After the settings are made, click [Save Settings] to send setting data to AG-150A

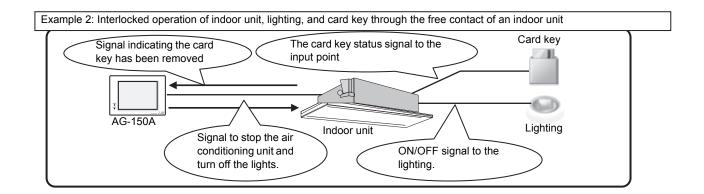
Note: The use of energy-save/peak cut control functions requires a separate license registration. Confirm on the license registration screen (refer to chapter 9) that the license registration has been completed.

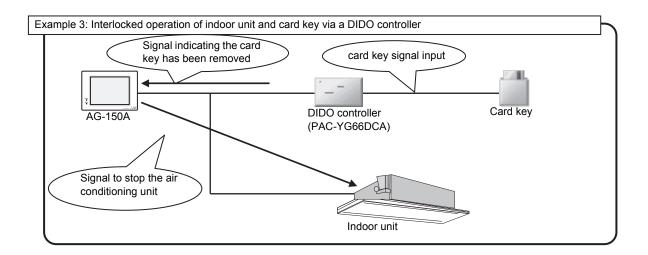


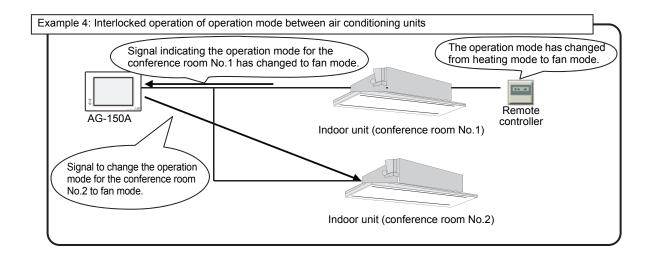
The interlock control verifies the state changes in an ascending order of No.1 to 150 every three to five seconds. When the conditions are met, the interlock action commands will be issued to the output units. Making the settings for the input category, interlocking conditions, input unit type, output category, action type, and output unit type for conditions No. 1 through 150, the operation of the equipment that are connected to AG-150A can be interlocked with the operation of the indoor units.

Shown below are four examples of such interlocked operations.









Note: It takes longer than usual to issue commands when the interlock conditions are met. This may delay the state change verification, which is usually performed every three to five seconds.

When other controls such as scheduled operation or Energy-Save Control are performed at the same time, the interlock control may be delayed. If PAC-YG50ECA Expansion Controllers are connected, communication may take longer and cause a delay of more than ten seconds. For instance, when all the 150 air conditioning units are set to ON using Expansion Controllers, the interlock control is delayed about one minute. Take into consideration these types of delays when setting the Interlock control.

- Note: When using the signal input through the contacts for connection to general equipment is used as an interlocking signal, select "Input Status" on the screen to select the display option for the General equipment groups (refer to 4-3-3).
- Note: Interlock control is not effective when External Input Setting on AG-150A is set to ON/OFF (Level signal) (refer to 4-2-2-3).
- Note: When the units are in the Emergency Stop mode (refer to 4-2-2-3) or in Stop Control method (refer to 5-2) during Energy-Save Control, only free contact and DIDO controller (PAC-YG66DCA) will be performed and other Interlock control will not.
- Note: If the user logs in as a building manager, some of the operations may be prohibited.
- Note: Free contact is available for use on R410A-compatible indoor units and R407C-compatible indoor units with S/W Ver. 33 or later. The S/W version can be confirmed with the maintenance tool.
- Note: When connecting AG-150A controllers by connecting an Expansion Controller to the system, interlock control settings should be made only on one of the AG-150A controllers.
- Note: When deleting a group or integrating a group with another group, also delete the interlock condition settings that correspond to that group.

Caution:

Before using the interlock control, you must agree to the following.

- 1. This feature must not be used for disaster prevention or security purposes unless a backup device is provided in case of failure of this feature. (Not designed to be used in situations that are life-threatening)
- 2.No functions must be added that allow the malfunctioning unit to run by defeating the safety features, such as an external ON/OFF switch or a short-circuit.
- 3. Those settings for the function that are not supported by the interlocked units must not be made. All the settings must be made within the specified range.
- (Failure to observe these precautions may result in malfunctions and failures.)
- 4.Perform a test run for interlock control, and confirm the correct settings and normal operation.
- 5. The system must be configured in the way that integrates the operation of the interlocked fire and emergency control systems.
- 6. The followings are the condition examples that should NOT be set.
 - <Inappropriate condition examples repeating ON and OFF eternally>
 - Ex1: Turn off Group1 when Group1 is turned on.
 - Ex2: Turn on Group1 when Group1 is turned off.

These settings may damage the units by repeating ON and OFF.

7-3-1 Making the interlock settings

Up to 150 interlocking conditions from 1 through 150 can be set as follows.

Set the input category and interlocking conditions.
 Select the equipment for the input category and the interlocking conditions (event) according to Table 7-1.

Input Category	Input unit icon	Interlocking condet	ions (event)	Selection
		Condition 1	Condition 2	unit
Group (On/Off)		All Groups On All Groups Off One or more Groups On One or more Groups Off	-	Group
Group (Mode)		All groups in the mode All groups out of the mode One or more groups in the mode One or more groups out of the mode	Cool, Dry, Fan, Heat, Auto, Bypass (LOSSNAY), Heat Recovery (LOSSNAY), Auto (LOSSNAY)	Group
Group (Error/Normal)		All units in error All units in normal operation One or more units in error One or more units in normal operation	-	Group
Free Input Points (On/Off)		All Units On All Units Off One or more Units On One or more Units Off	-	Unit (point)

	a state all the second states a		the second se	- the second se second second sec
I 2010 / 1 Intoriocking	conditione and	n tha calaction	I I I I I I I I I I I I I I I I I I I	1 Innuit catedon.
Table 7-1 Interlocking	CONULIONS and	, וווב פבובנווטוו	ו ערווג וטר כמטו	

Note: The events for output units are performed when the following state changes occurred on the input units. <Examples of when the input category is set to Air-conditioner (On/Off):>

When [All On] is selected, the events are performed when the state changed from [One or more group Off] to [All On].

When [All Off] is selected, the events are performed when the state changed from [One or more group On] to [All Off].

When [One or more group On] is selected, the events are performed when the state changed from [All Off] to [One or more group On].

When [One or more group Off] is selected, the events are performed when the state changed from [All Off] to [One or more group Off].

(When AG-150A is powered on, even if a condition for a change in status is met, it does not count as an event.)

- Note: Air conditioning units, LOSSNAY units, and DIDO controller (PAC-YG66DCA) are available for selection as the input unit type (Group (On/Off); Group (Error/Normal)).
- Note: Different types of groups (air conditioning units, LOSSNAY units, or DIDO controller (PAC-YG66DCA)) cannot be simultaneously selected as input unit types for each interlocking conditions.
- Note: If Group (Mode) is selected for the input category, operation modes of the air conditioning units (Cool, Dry, Fan, Heat, Auto) and LOSSNAY units (Bypass, Heat Recovery, Auto) will all be displayed. If an operation mode is selected that cannot be used on the input unit (air conditioning or LOSSNAY units), interlocking conditions will not be met.
- Note: When Group (Mode) is selected for the input category, the operation mode for Air To Water (PWFY) unit cannot be set.
- Note: Multiple inputs cannot be selected for a single interlocking condition.
- Note: DIDO controller (PAC-YG66DCA) group cannot be selected as an input unit type if Group (Mode) was selected as the input unit type.

(2) Set the input unit.

Click [Select input units] to set the input unit type.

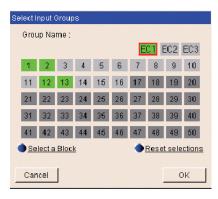
One of the following screens will appear that will allow the user to set the input unit types, depending on the "selection unit" that was selected from a list in Table 7-1.

(2-1) Selection unit is "Group."

When the Input category is set to Air- conditioner (On/Off) or Airconditioner (Mode) or Air-conditioner (Alarm/Recovery), clicking the [Select Input Units] will bring up the window that displays the Group numbers. Click on the numbers corresponding to the Groups to be registered. All selected Groups will be shown with a yellow-green background.

To cancel the selection, click again. Deselected items will be shown with a gray background.

To register blocks of Groups, click [Select a Block]. The ones that are selected will be shown with a yellow-green background.



Select Addresses of Input Units									
Unit	Unit Addresses EC1						EC2	EC3	
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
Con	tact P	oints							
1	2	3	4						
Car	ncel							C	0K

Clicking "Reset selections" will deselect all selected groups.

(2-2) Selection unit is "Unit."

When the Input category is set to Free Input Points (On/Off), clicking the [Select Input Units] will bring up the window that displays the free input points.

Click the addresses of the indoor units that are connected to the general equipment to be registered. The selected addresses will be displayed with a red frame. Select the contact point to which the general equipment is connected.

Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.

(3) Set the output unit type and interlocked actions.

Select the equipment type for the output unit type and the interlocked actions according to Table 7-2. Table 7-2 Interlocked actions and the selection unit for each output category

	Output unit		Interlocked Actions	Selection unit	
Output unit type icon		Item Setting options			
		ON/OFF	ON, OFF		
		Mode	Cool, Dry, Fan, Heat, Auto, Bypass (LOSSNAY), Heat Recovery (LOSSNAY), Auto (LOSSNAY)		
		Set Temp.	et Temp. 8~30°C/46~87°F (Cool, Dry) 8~28°C/46~83°F (Heat) 8~28°C/46~83°F (Auto)		
	up	Air Direction	Mid3, Mid2, Mid1, Mid0, Horizontal, Swing, Auto	Group	
Group		Fan speed	Low, Mid2, Mid1, High, Auto	Group	
		Prohibit Remote Controller Operation (ON/OFF)	Maintain current status, Permit, Prohibit		
		Prohibit Remote Controller Operation (Mode)	Maintain current status, Permit, Prohibit		
		Prohibit Remote Controller Operation (Set Temp.)	Maintain current status, Permit, Prohibit		
Free Output Points		ON/OFF	ON,OFF	Unit (point)	

Note: Air conditioning unit, LOSSNAY unit, Air To Water (PWFY) unit, and DIDO controller (PAC-YG66DCA) groups are available for selection as the output unit type if Group was selected as the output unit type.

Note: Different types of groups (air conditioning units, LOSSNAY units, Air To Water (PWFY) unit, or DIDO controller (PAC-YG66DCA)) cannot be simultaneously selected as the output unit types for each interlocking conditions.

Note: If "Group" is selected for the output unit type, there may be settings that are unavailable (operation mode, set temperature range, air flow direction, fan speed), depending on the model of the connected air conditioning units.

Make the interlocked action settings only for the settings that are available for a given air conditioning unit group.

Setting the preset temperature outside of the air conditioning units' operable temperature range may lead to damage to the air conditioning units.

Note: The CITY MULTI model supports a temperature setting range of 12-28°C / 53-83°F when in Heat mode. (When S series (PUMY) is used, set the temperature at 17-28°C / 63-83°F in heat mode.)

Note: "Mode" and "Set Temp." for Air To Water (PWFY) unit cannot be set.

(3-1) Output unit type is "Group."

Click "Action" to bring up the "Set up Action" screen. Select the actions to be taken when an event occurs.

Set up Actions	
ION OFF	
Mode	(Air-cond.) Cool Dry Fan Heat Auto
	(LOSSNAY) Bypass Heat Recovery Auto
Set Temp.	Air Direction Fan Speed
26 °C 📼	
Prohibit Remote C	Controller Operation
ON/OFF	Mode Set Temp.
Cancel	0K

Note: Temperature setting cannot be made unless the operation mode has been set.

- Note: If an operation mode is selected that is not available for a group of units that was selected in the output unit type field, the units in the group will not perform any operation.
- Note: To prevent malfunctions of the air conditioning units, be sure to set the preset temperature to a temperature within the normal operating temperature range, although there may be rare cases in which it is possible to set the preset temperature to a temperature outside the normal operating temperature range (depending on the model of the air conditioning units that are connected to a system).
- Note: Signals for Swing/AUTO and Fan speed/Auto will not be output unless these functions are available for a given air conditioning unit model.

With respect to the air flow direction and fan speed, if the number of settable directions and air speeds vary among the connected unit models, the signals that are rounded up to the settable range may be output.

Note: On K-control units, if the access to any item from the remote controller is prohibited, access to all items will be prohibited.

(3-2) Output unit type is "Free Output Points." Select ON or OFF on the interlocking action screen.

Output Unit Type	
Free Output Points	•
Action	
ON	
<u>OFF</u>	

(4) Set the output unit type.

Click "Select output units" to bring up one of the following screens that will allow the user to set the output unit types, depending on the "selection unit" that was selected from a list in Table 7-2.

(4-1) Selection unit is "Group."

When the Output unit type is set to Air- conditioner, clicking the [Select Output Units] will bring up the window that displays the unit numbers.

Click on the numbers corresponding to the Groups to be registered. All selected Groups will be shown with a yellow-green background. To cancel the selection, click again. Deselected items will be shown with a gray background.

To register blocks of Groups, click [Select a Block]. The ones that are selected will be shown with a yellow-green background.

Clicking "Reset selections" will deselect all selected groups.

Select Output Groups									
Group Name :									
					E	C1 E	EC2	EC3	
1 2	3	4	5	6	7	8	9	10	
11 12	13	14	15	16	17	18	19	20	
21 22	23	24	25	26	27	28	29	30	
31 32	33	34	35	36	37	38	39	40	
41 42	43	44	45	46	47	48	49	50	
Select a Block Reset selections									
Cancel									

elect Addresses of Output Units									
Unit Addresses EC1 EC2 EC3									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
Contact Points									
1	2	3							
Can	cel	1						C	ЭK

(4-2) Selection unit is "Unit."

When the Output unit type is set to Free Output Points, clicking the [Select Input Units] will bring up the window that displays the free input points.

Click on the addresses of the indoor units that are connected to the general equipment to be registered. The selected addresses will be displayed with a red frame. Select the contact point to which the general equipment is connected.

Note: If PAC-YG50ECA Expansion Controllers are connected, Expansion Controller system selection buttons will appear. Select the desired Expansion Controller (EC1, EC2, or EC3), and make the settings for each system. Make the settings with the Expansion Controllers properly connected.

7-3-2 Disabling/Enabling the setting for each interlocking condition

To exclude an individual group from certain settings being applied to, use the Enable/Disable button. No actions will be taken for the group that is set to "Disable."

7-3-3 Temporarily disabling the interlocking control

To temporarily disable the interlocking control, click the "Stop Execution" button.

*Changes in status that occur while "Stop Execution" is selected will be ignored.

7-3-4 Editing the setting for each condition

Use the edit buttons (Delete all steps, Insert a step, Delete a step, Clear the display, Copy, Paste), to edit the setting in each row.

Button name	Function	
Delete all steps	Press this button to delete all the settings.	
Insert a step	Inserts a blank row above the row that is displayed, and moves all rows down by one. If conditions are entered in the last row, no more rows can be inserted.	
Delete a step	Deletes the row that is displayed, and moves up the rows below by one.	
Clear the display	Clears the settings for the row that is displayed.	
Сору	The copy button copies the settings in the selected row. These settings can be pasted onto another row by selecting a row and touching Paste.	
Paste		

8 User Setting

Click on [User settings] in the menu to open the user setting screen and make necessary user settings to limit available functions of a building manager and to change user names and passwords of maintenance user and building manager.

A building manager must change group names when a tenant has been changed. However, for basic setting information, such as connection information of air conditioners, that one doesn't want to be changed, please make this user setting. Moreover, when building manager forgets his user name or password, the user logs in as a maintenance user can be set again.

	MISSUBJAH Air Conditioner Control System - Microsoft Internet Explorer File Edit Vew Peortes Tools Help Stack + O - R R R Address @ Impril102.160.11/pS0/en/admictrator.html R R R			
	Inital Settings Eunctions 1 Eunctions 2 Eunctions 3 User Settings			
Maintenance user name, - password	User Settings For Maintenance Use	- User name and		
User name and password can be changed.	User Name Initial New Password F*** Retype Password ****	password for building manager		
Available functions	For Building Manager User Name administrator New Password Retype Password Available Functions Initial Settings	User name and password can be changed.		
	IDate and Time IBasic System IGroups (IJCroup Name IGroups (IJCroup Name			
Refresh -	Interlockel LOSSNAY IBlock Studiure Functions 1 Functions 1 Functions 1	Save settings Send setting data to		
Read setting data from AG-150A.	Ceynight(s) 2004-2007 MTSUBINI ELECTRIC CORPORATION All Right Bulewel	AG-150A.		

(1) When changing the user names or passwords of maintenance users, type new information in [User name], [New Password] and [Retype Password] fields to change user names or passwords of maintenance users. Note: If the user logs in as a building manager, the user name and the password of the maintenance user are not displayed, and cannot be changed.

Note: User name must contain only alphanumeric characters (upper/lower case letters and numbers).

- (2) When changing the user names or passwords of building managers, type new information in [User name], [New password] and [Retype Password] fields to change user names or passwords of a building manager. Note: The same user name and password are used to log in to LCD screen.
- (3) To set the available functions of a building manager, click functions that should be available. The ones that are selected will be shown with a yellow-green background.

To cancel the selection, click on them again. Deselected items will be shown with a gray background. For more information of each function and available functions, refer to the next page.

Note: If the user logs in as a building manager, the present status can be checked, but cannot be changed. Note: This setting is valid only on the Web browser and will not be reflected on the LCD screen.

A	vailable Functions					
I	Initial Settings					
	Date and Time					
	Basic System					
	Groups (Group Name Group Structure)					
	Interlocked LOSSNAY					
	Blocks(Block Name Block Structure)					
F	Functions 1					
	E-Mail Peak Cut(Control Method System Structure) Measurement					
E	Functions 2					
	Set Temperature Range Limit					
	Night Mode Schedule					
	System-changeover					
F	Functions 3					
	External Temperature Interlock					
	Night Setback Control					
	Interlock control					

Table 8-1 Available Function List

	Function		Content		
	Date and time		Current date and time setting		
	Basic system ^{*1}		AG-150A network setting, external output setting		
		Group name	Group name setting		
Initial setting	Groups	Group structure ^{*1}	Connection setting of indoor units, remote controllers, system controllers and general equipment in a group		
	Interlocked LOSSNA	(^{*1}	Connection setting of interlocked LOSSNAY		
	Blocks	Block name	Block name setting		
	DIUCKS	Block structure ^{*1}	Registration setting of groups in a block		
	E-Mail ^{*1}		Address to report an error mail, Setting of mail communication partner		
Functions1	Peak cut	Control method	Setting of average electric range, temperature difference between set point an inlet, and control method of indoor units and outdoor units		
		System structure ^{*1}	PLC initialize, PLC settings		
	Measurement		Measurement controller connection setting, error mail setting		
	Set temperature range	e limit	Temperature operating range limitation setting		
Functions2	Night mode schedule		Night mode time interval setting		
	System-changeover		System-changeover of cooling and heating		
	External Temperature	Interlock	Setting of external temperature interlock		
Functions3	Night Setback Contro	l	Setting of setback control		
	Interlock control		Setting of interlock control		

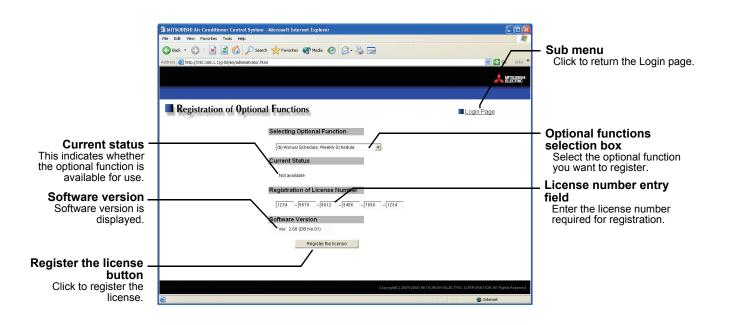
*1: At factory shipment, the operation of the building manager is prohibited.

(4) Click [Save Settings] to send setting data to the AG-150A.

9 Registering a License for Optional Function

Text below explains how to register a license for optional functions. In the Login screen (see 3-1), click [Registration of Optional Functions] and the License Registration of Optional Functions screen will appear. Please ask the dealer you purchased the product from for more details on the optional functions and how to purchase a license number.

Note: When multiple AG-150A controllers are connected by connecting an Expansion Controller to the system, the license to use the optional functions is required only for the AG-150A controller on which the functions are actually used.

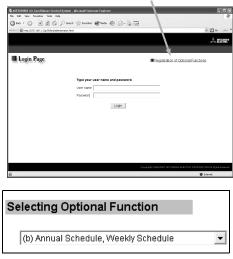


(1) Open the Registration of Optional Function screen.

(2) Register an optional function.

Enter the Web page address in the web browser address field, and click the [Enter] (Return) key on the keyboard to display the Login screen (See 3-1). Click on this screen's menu item [Registration of Optional Functions] to open the Registration of Optional Functions screen.

License registration of optional functions



1234 - 5678 - 9012 - 3456 - 7890 - 1234

Registration of License Number

whether it is available for use. Next enter the license number you purchased for the optional function in the license number entry field and click the [Register the license] button. Once this is done, the optional function will be available for use.

First select the optional function you wish to register from the

selection box in the Selecting Optional Function selection. When an optional function is selected, the current section will indicate

If you were unsuccessful in registering an optional function, check that you did not enter the wrong license number by mistake, that the correct optional function was selected from the selection box, and that the AG-150A main units date and time are set correctly.

Note: After registering the license, make sure that the "Current Status" of the license says "Available." Note: Alphabet "O" and "I" are not used for license number.

This product is designed and intended for use in the residential, commercial and light-industrial environment.

The product at hand is based on the following EU regulations:

- Low Voltage Directive 2006/95/EC
- Electromagnetic Compatibility Directive 2004/108/EC

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

MITSUBISHI ELECTRIC CORPORATION

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