



Energy Saving Data Collecting Server EcoWebServerIII MODEL

MES3-255C-EN

User's Manual (Hardware)

 Before operating the instrument, you should first read thoroughly this operation manual for safe operation and optimized performance of the product. Deliver this user's manual to the end user.

Introduction

Thank you for purchasing Mitsubishi Energy Saving Data Collecting Server (EcoWebServer III). This instruction manual explains how to install and use the product. Before using the product, read the instruction manual carefully for correct operation. Be sure to read "1 Safety Precautions" to correctly handle the product. Keep this instruction manual in a safe, accessible place for ready reference. Make sure that this instruction manual will be delivered to the end users.

For details on setting EcoWebServerIII, refer to "User's Manual - Setting (IB63919)". For details on setting EcoWebServerIII, refer to "User's Manual - Operating (IB63918)".

Packing materials and instruction manual

To reduce the load on the environment:

- Packing materials use corrugated cardboard.
- The instruction manual uses recycled paper.





Packaged contents

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1. Safety Precautions

Precautions concerning the operating environment and usage conditions

Do not use the product in the places as follows. Failure to follow this instruction may cause malfunctions and reduced life of the product.

 Ambient temperature exceeds 0° to +55°C.	 Frequent vibration or impact exists.
(Température ambiante excède 0° à +55°C.) Daily average ambient temperature exceeds 35°C.	(Vibration fréquente ou impact existe.) Rainfall or water droplet hits the product.
(Température ambiante quotidienne et moyenne excède 35°C.) Relative humidity exceeds 5% to 95% or condensation is observed.	(Pluie ou gouttelette frappe le produit.) Exposed to direct sunlight.
(Humidité relative excède 5% à 95% ou condensation est	(Exposé à lumière du soleil directe.) Metal pieces or conductive materials blow.
observée.) Altitude exceeds 2000 m.	(Pièce métal ou matière conducteur souffle.) Under strong electromagnetic field or noise.
(Altitude excède 2000 m.) Dust, corrosive gas, saline and oil smoke exist.	(Sous champ électromagnétique fort ou
(Poussière, gaz corrosif, salin et huile fumée existe.)	bruit.)

Precautions concerning the installation

Please read this instruction manual before installation.



- The product shall be installed by a technician who has expertise in electric work such as safe installation and wiring.
- Always handle the end face of metal parts with care. The sharp part may cause injuries.
- During threading or wiring work, take precaution so that any metal chip or a part of wire cut does not enter the product.
- Make sure to use the connection diagram for correct wire connection. Incorrect wiring may cause the device malfunction, fire or electric shock.
- Never do hot-line jobs. Otherwise, it may lead to electric shock, fire or device problems.
- Use appropriate size of electric wires. If inappropriate size of electric wire is used, it may cause fire due to generated heat.
- Use an appropriate size of solderless terminal which fits the wire. If inappropriate solderless terminal is used, wire breakage or contact failure may occur, which may cause the device malfunction, failure, burnout, or fire.
- For UL/c-UL standard, please use the copper conductors wire which temperature rating is 60 °C /75 °C.
 (Pour UL/c-UL standard, utilisez le conduit en cuivre dont la température classée à 60 °C /75 °C.)

	Part	Wire size	Appropriate solderless terminal
Power su	pply section	0.75 to 2.0 mm ²	RAV1.25-3.5
terminal b	olock		RAV2-3.5
CC-Link o	communication	Version 1.10-compatible CC-Link	R1.25-3
section te	rminal block	dedicated cable	
Contact o	output section	0.3 to 0.75 mm ²	R1.25-3
terminal b	olock		(Solderless terminals with a crimp
			sleeve cannot be used.)

• Make sure all the fittings are securely tightened. Failure in tightening may cause the device malfunction, fire, or electric shock.

(Assurez-vous que tout le serrage est fermement serré. Manque de serrage peut causer mauvais fonctionnement du dispositif, feu, ou commotion électrique.)

• Fixing fittings must be tightened to the specified torque. Excessive tightening may cause damage to terminals or screws.

(Fixation du serrage doit être serrée à couple de serrage spécifié. Serrage excessif peut endommager du terminal ou vis.)

Insufficient tightening may cause the device malfunction, fire, or electric shock.

(Serrage insuffisant peut causer mauvais fonctionnement du dispositif, feu, ou commotion électrique.)

- Please return the unit which you removed for wiring. The units are only support to be worked as <u>EcoWebServerIII.</u>
 It will be not worked without using for EcoWebServerIII.
- Please do not replace for any unit of EcoWebServerIII. Operation verification of EcoWebServerIII is confirmed as the purchase. It may cause a malfunction or failure if EcoWebServerIII is used in any other combination.

Part (Partie)		Tightening torque (Couple de serrage)
Terminal screw for power supply section	(M3.5 screw)	
(Borne de terminal pour terminal bloc dans la section d'alimentation électrique)	(Vis M3.5)	0.8 to 1.0 N·m
Terminal screw for CC-Link communication section terminal block	(M3 screw)	
(Borne de terminal pour terminal bloc dans la section de CC-Link communication)	(Vis M3)	0.42 to 0.58 N·m
Mounting screw for CC-Link communication section terminal block	(M3.5 screw)	
(Borne de montage pour terminal bloc dans la section de CC-Link communication)	(Vis M3.5)	0.66 to 0.89 N·m
Terminal screw for contact output section terminal block	(M3 screw)	0.42 to 0.59 N.m
(Borne de terminal pour terminal bloc dans la section de contact sortie)	(Vis M3.5)	0.42 10 0.36 10 11
Mounting screw for contact output section terminal block	(M3.5 screw)	0.66 to 0.89 N·m
(Borne de montage pour terminal bloc dans la section de contact sortie)	(Vis M3.5)	0.00 10 0.00 10 11
Unit fixing screw (Vis pour fixation l'unité)	(M3 screw × 12) (Vis M3)	0.36 to 0.48 N·m

 Make sure that all the terminal covers are mounted. Failure to mount them may cause electric shock. (Assurez-vous que tout les couvercle sont attachés. Manque d'attachement peut causer mauvais fonctionnement du dispositif, feu, ou commotion électrique.)

•Avoid installing in a panel where high pressure equipment is installed.

Please install a surge suppressor in the device which is prone to noise.

•CC-Link communication signal line and other signal lines, auxiliary power supply line, the power supply frequency input line to prevent the introduction of noise, please do not approach and unity of the power line or high voltage line. Please separate the separation distance when the signal line and the power line / high voltage line are parallel as a guide. (Excluding terminal block input section)

ĮC	C-Link communication signal line		
	Condition	Distance	
	All power lines	More than 100mm	
[C)ther signal line / auxiliary power l	ine / power frequency inp	out line]
	Condition	Distance	
	Power line of 600V or less	More than 300mm	
	Other power lines	More than 600mm	

•Please connect the shield wire of the CC-Link communication cable to the SLD terminal of each of the CC-Link communication terminals.

•To prevent induction noise, keep control lines and communication cables as far away from power lines as possible.

(We recommend that you keep a distance of 100 mm or longer between them.)

Do not place them in a board containing high-voltage equipment.

Mount surge absorbers on equipment that is likely to produce noise.

•Connect both ends of the shield line for CC-Link communication cable to the "SLD" terminal of the units. "SLD" and "FG" are connected together inside each unit.

Make sure to insulate the shield line using vinyl tape or the like.

•For the actual usage, perform D-type grounding dedicated for the "FG" terminal.

•Perform insulation withstand voltage tests and insulation resistance tests without connecting the FG terminal to the external case (ground).

Precautions concerning the preparation before use

• Make sure that your installation site meets the requirements for the operation environment and usage conditions.

• Before use, perform the settings for the product. Wrong settings may cause the product to malfunction.

- Check the power ratings of the product.
- After installing the product and performing wiring work, peel off the dustproof seal.
- Failure to peel it off may cause the product to malfunction due to heat generation.
- The product has a built-in lithium battery. It is not connected to the product when shipped from the factory. Connect it before using the product. (Refer to "6. Battery Installation and Replacement" of this manual)

Precautions for use

- Use the product within the ratings specified in "9. Specifications" of this manual. If it is used outside the ratings, it may cause not only malfunction or failure but also fire or burnout.
- Settings including an IP address assignment are required to connect the product to the network (Ethernet). Before use, perform an IP address assignment and other necessary network settings using the supplied configuration software.(Refer to "IP Setting" of Setting manual)
- The product is configured as follows when shipped from the factory:

IP address = 192.168.10.1, subnet mask = 255.255.255.0, gateway = nothing

When you connect the product directly to a single PC, you do not have to change these settings.

•The product has a built-in clock. Before use, set the current date using the supplied configuration software.

- •Before operating the product, check that active bare wire, etc does not exist around the product.
- If any bare wire is found, stop the operation immediately, and take appropriate action such as isolation protection.
- •Please contact our sales staff when you consider applying the product to special purpose, including use in devices and systems for nuclear plant, aerospace engineering, medical care or automobile. (See the end of this document for details.)
- •If the power is turned on immediately (within 5 seconds) after it is turned off, an out-of-spec inrush current (20 A 8 ms or lower) may be generated. After power shutdown, wait at least 5 seconds before turning on power again.
- Periodically adjust the time. (Approx. once every 6 months)
- *Refer to '4.8.1 Time Settings in User's Manual Setting.'



Do not disassemble or modify the product. It may cause failure, electric shock or fire.
Do not remove the seal on the side of this product. Such as maintenance and failure analysis will be out of service without integral sealed.

Precautions for maintenance and inspection

- Use a soft dry cloth to clean off dirt of the product surface.
- Do not let a chemical cloth remain on the surface for an extended period of time nor wipe the surface with thinner or benzene.
- Check for the following items to use the product properly for a long time.
 - Check for the items (1) to (3) once or twice every six months.

Check for the item (4) once a year.

- (1) No damage on the product (2) No abnormality with LED indicators (3) No abnormal noise, smell or heat
- (4) No looseness with installation, wire connection to terminal blocks, and connector connection (Check these items under the electric outage condition.)



•Checking looseness with installation, wire connection to terminal blocks, and connector connection must be done under the electric outage condition.

•When a power failure is occurred in a voltage drop state, clock and data might be reset. Please configure again.

Precautions for storage

- To store the product, turn off the power and remove wires, and put it in a plastic bag.
- To keep the power off for a long time, remove the battery connector.
- (The battery's accumulated backup time for electric blackout is 13,700 hours (1.57 years). Failure to use a battery over backup time may cause a data clear of the product.
- For long-time storage, avoid the following places. Failure to follow this instruction may cause failure and reduced life of the product.

Precautions for disposal

- The product shall be properly disposed of in compliance with the "Wastes Disposal and Public Cleansing Act".
- The product has a built-in lithium battery. The lithium battery shall be disposed of in compliance with your local regulations.
- In EU member states, there is a separate collection system for waste batteries. Dispose of batteries properly at the local community waste collection/recycling center.

The symbol shown below is printed on the batteries and packaging of batteries and devices with built-in batteries used for Mitsubishi programmable controllers.



Note: This symbol is for EU member states only.

The symbol is specified in the new EU Battery Directive (2006/66/EC) Article 20 "Information for end-users" and Annex II.

The symbol indicates that batteries need to be disposed of separately from other wastes.



•There may be some electricity left in the lithium battery removed. Keep it away from other metal parts because its contact with the metal parts may cause heat, rupture, or fire.

Network building

- For installation and setting of web browsers and JavaVM (Java Virtual Machine) and inquiries about their technical issues, contact your network administrator or appropriate department.
- For installation and setting of servers such as SMTP (mail transfer) servers and FTP (file) servers and inquiries about their technical issues, contact your network administrator, appropriate department or the manufacturers for those servers.
- We don't offer technical support for the above.
- When needed for keeping system security against illegal access from outside, users should take proper measure. We do not assume responsibility for any trouble arising from illegal access.

We recommend users to note the followings.

- 1) Use LAN for preventing illegal access from outside.
- 2) Take measures like firewall and VPN when connecting internet.
- 3) Before using, change the default account (login ID, password).

Set the account so as not to leak the accont information according to the following precautions. Avoid using simple string like Name, birth date and numbers.

Set the complex loging ID and password at least 8 characters by mixing uppercase or lowercase alphanumeric characters.

QR code

• QR code is for production management. Please do not use.

Special purposes

•Please contact our sales staff when you consider applying the product to special purposes, including use with devices and systems for nuclear engineering, aerospace engineering, medical care, or automobiles. (See the end of this document for details.)

2. Main Features

- The product has an HTTP server function that can send data over the Internet/Intranet via Ethernet that is collected from measuring instruments using CC-Link communication. The transmitted information can be viewed in a graph or list format on PCs connected to the Intranet.
- All the software programs necessary to view collected data are built in the product. You do not have to install additional software on your PC to view the data.
- Also installing a mail server (SMTP server) or file transfer server (FTP server) allows you to send email notifications when an upper/lower limit alarm operates and to save measurement data in a CSV format by automatic transfer.



*1 Limited to be a MC protocol client.

3. Name and Function of Each Part



- *1 Memory card should be in the product all the time. Removing it while the product is operating or it is been accessed may cause the product to malfunction. Before removing it from the memory card slot, make sure to hold the RESET/SELECT switch to the "SEL." position and to turn the power off after the "CF CARD" LED goes out.
- *2 Connect a power supply of 100-240 V AC (+10%, -15%) 50-60 Hz.
 Do not connect any power supply other than the above, otherwise it may cause malfunction.

♦ LED display

Part	Display name	Status	Operation
Power supply section	POWER	Power supply display	Lights green: Power is on.
	RUN	Operation display	Lights green: MODE/STOP/RUN switch is set to RUN position (in normal operation). Off: MODE/STOP/RUN switch is set to STOP position (in the IP address display mode).
	CF CARD	Memory card status	Lights green: Memory card is accessible. Blinks green: Memory card is being removed. (RESET/SELECT switch is held to SELECT position.) Off: Memory card is ready to be removed.
	MODE	Operation mode	Lights green: During standard operation Lights orange: During startup in hardware self-diagnostic mode
Server section	ERR.	Error display	Lights red: At the time of occurrence of a battery error Blinks red: During initial startup after purchase During an electric outage due to battery exhaustion
	STA.	Operation status	Blinks green: During startup after the power is turned on Lights green: Startup is completed. Blinks red: Error occurrence *The details of error vary depending on the error code displayed on 7 segment LED of server section. Refer to 12 Troubleshooting.
	100M		Lights green: Connected at 100Mbps Off: Connected at 10Mbps
	SD/RD	communication	Lights green: Connected to LAN Off: Not connected to LAN Blinks: LAN communication in progress.
	RUN	Operation status of CC-Link communication	Lights green: CC-Link communication section is normally running. Off: CC-Link communication section is under abnormal conditions.
	MST	CC-Link master	Lights green: During normal operation (This LED lights green all the time because the product stays in CC-Link master mode during operation.)
	SD	CC-Link	Blinks green: Transmitting through CC-Link communication
	RD	communication status	Blinks green: Receiving through CC-Link communication
CC Link	L RUN	CC-Link link status	Blinks green: Linking through CC-Link communication Off: No link through CC-Link communication
communication section	S MST	CC-Link standby master	Off: During normal operation (This light is off all the time because the product stays in CC-Link master mode during operation.)
	L ERR.	Error status of CC-Link communication	Blinks red at regular intervals: The switch on the CC-Link communication section is operated with power on. Blinks red at irregular intervals: Termination resistance is not installed. (The unit or CC-Link dedicated cable is being influenced by noise.) Lights red: The settings don't correspond to the connected equipment.
	ERR	Error status	Lights green: Master stations overlap on the same line. (This equipment is used with fixed CC-Link master mode) The cable is disconnected, or being affected by noise. Blinks red: The station number of the remote station is duplicated.
Contact output section	0 to 9, A to F	Contact output status	Off: Contact output is open. Lights red: Contact output is closed.

• LAN interface CH1, CH2 (100BASE-TX/10BASE-T)

Item	Specifications
Communication specifications	Ethernet (10BASE-T/100BASE-TX)
Communication speed	10 Mbps, 100 Mbps
Communication media	UTP (Unshielded twisted pair cable)
Max. segment length	100 m (to hub)

♦ MODE/STOP/RUN switch

Item	Specifications
STOP	Turning the product on or resetting it with the switch in the "STOP" position displays the IP address currently specified for the product. (See "7.2 Checking IP address".)
RUN	Usually use the product with the switch in the "RUN" position.

RESET switch

Item	Specifications
RES.	Use this switch to reset the product. Refer to 12.1Reset of the product.
SEL.	Holding the switch to the "SEL." position during operation stops the reading/writing of the memory card. Make sure to perform this procedure before turning the product off or resetting it.

CompactFlash memory card slot (server section)

•Insert the dedicated CompactFlash memory card included in the package when the power is off. Always operate the product with the CompactFlash memory card in the slot. If the CompactFlash memory card is not in the slot, the product will not operate.

Terminal block (power supply section)

Terminal symbol	Function
ERR	Not used
FG	Frame ground
LG	Power filtering ground
L	Power supply 100 to 240 V AC
N	



Terminal block (CC-Link communication section)

Terminal symbol	Function
DA	CC-Link communication line A
DB	CC-Link communication line B
DG	CC-Link communication line ground
SLD	CC-Link communication line shield
NC	Not used

Both ends of the shield line for CC-Link dedicated cable should be connected to "SLD" of the unit: Perform D-type (Type 3) grounding work dedicated for the "FG" terminal of each unit. "SLD" and "FG" are connected together inside each unit.

- CC-Link station number setup switch (CC-Link communication section)
 Set (Hold) the switch to 0.
 - (Note) It is set to 0 when shipped from the factory. Do not change the setting. If it is set to any position other than 0, CC-Link communication cannot be conducted.

CC-Link communication speed setup switch (CC-Link communication section)

Setting	Communication speed	
0	156 kbps	
1	625 kbps	
2	2.5 Mbps	
3	5 Mbps	
4	10 Mbps	
E to 0 A to E	Drahibitad	

5 to 9, A to F Prohibited

(Note 1) Set to the same communication speed all the CC-Link terminals connected to the product. If they operate at different communication speeds, communication cannot be conducted.

(Note 2) The switch is set to 0 (communication speed = 156 kbps) when shipped from the factory.

Terminal block (contact output section)

Terminal symbol	Function
0 to 9, A to F	Contact relay output 0 to 9, A to F (100 to 240 V AC or 24 V DC)
COM	Contact relay output common (common for output 0 to 9, A to F)
NC	Not used





Installation

The following explains the operations from package opening to installation.

- (1) Open the package.
- (2) Check the packaged contents.(See "Packaged contents" on page 1 of this instruction manual.)
- (3) Insert the supplied memory card into the memory card slot.
- (4) Connect the battery mounting connector.
- (See "6.1 Installing battery" of this instruction manual.)
- (5) Check that the CC-Link station number setup switch is set to "0".
- (See "CC-Link station number setup switch" in "3. Name and Function of Each Part" of this instruction manual.)(6) Set a communication speed using the CC-Link communication speed setup switch.
- (See "CC-Link communication speed setup switch" in "3. Name and Function of Each Part" of this instruction manual.)
- (7) Install this product.

(See "5. Main Unit Installation" of this instruction manual.)

- (8) Conduct wiring.
 - (See "8. Connection Diagram" of this instruction manual.)
- (9) Check wiring conducted in step (8).

This completes the installation procedure.

Setting

The following explains the preparation for operating the product after it is installed.

(1) Use the supplied CD to install the setting software on your PC.

- (See " 2.3 Installation of the software " in User's Manual Setting.)
- (2) Use the configuration software to set an IP address for the product.

(See "7. IP Address Setting" of this instruction manual.)

* When you use the factory default setting (192.168.10.1 for IP address), you do not have to perform this step.

- (3) Use the configuration software to set a date and clock for the product.
 - (See Instruction Manual–Setting.)
- (4) Configure client computers to your network environment.
 - For details on settings, contact your network administrator.

For details on setting procedures, see the instruction manual of your computer or contact its manufacturer.

- (5) Configure the web browsers in the client computers. (See Instruction Manual– Operation.)
- (6) Set necessary information such as connected devices and measuring points. (See Instruction Manual–Setting.)
- (7) Check the product operation.

(See Instruction Manual- Operation and Setting.)

<u>`</u>	Caution	 Wrong network settings may cause other devices on the network to malfunction. The factory settings for this product are as follows: 192.168.10.1 for the IP address, 255.255.255.0 for the subnet mask, and no gateway setting. When you connect the product directly to a single PC, you do not have to change these settings.
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5. Main Unit Installation(Installation de l'unité principale)

This product can be installed in two ways, installation on an IEC rail (35 mm wide) and direct installation on a board. (Le produit peut être installé au deux moyens, installation sur un IEC rail (35 mm de large) et installation directe sur une planche.)

5.1 Installation on IEC rail (35 mm wide)(Installation sur un IEC rail (35 mm de large))

5.1.1 Mounting IEC rail mounting adaptor

(Montage d'adaptateur pour monter sur IEC rail)

Mount the supplied IEC rail mounting adaptors (small \times 2 and large \times 1) on the back of the main unit. (Montez adaptateurs pour monter sur IEC rail (petits \times 2 et grand \times 1) sur le dos de l'unité principale.)



grooves on the base unit. (Insérez l'adaptateur (grand) de bas dans la rainure du unité de base.) until you hear it click. (Appuyez inférieur de l'adaptateur (grand) jusqu'à vous l'entendez claquement.)

5.1.2 Mounting IEC rail fixing square washer

(Montage de rondelle carrée pour fixer IEC rail)

Use square washers and mounting screws (M5 × 10) to fix the IEC rail to the position where the main unit will be installed.

(Utilisez rondelles carrés et bornes de montage (M5 × 10) pour fixer l'IEC rail dans la position où l'unité principale sera installée.)



Keep 80 to 90 mm between the square washers. (Maintenez de 80 à 90 mm entre des rondelle carrées.)



5.1.3 Installing main unit on IEC rail(Installation de l'unité principale sur IEC rail)

Hook the adaptor into the IEC rail. (Accrochez l'adaptateur à l'IEC rail.)



5.1.4 Fixing main unit(Fixation de l'unité principale)

To prevent vibration when you transport the product installed on a board, make sure to fix the product using IEC rail fixing metal brackets.



5.2 Direct installation on board(Installation directe une planche)



(5) Hook the hook slot in the left side of this product on the left screw.(Crochez le cran du côté gauche du produit sur le vis gauche.)



- (6) Place mounting screws into the right and left screw holes in the lower side of this product, and tighten all the mounting screws.
 (Placez deux bornes de montage dans les trous de vis (en droite et gauche) en bas du produit et serrer toue les bornes de montage.)
- (7) Mount the unit for the power supply section and the unit for the contact output section.
 (Montez l'unité pour la section d'alimentation électrique et l'unité pour la section de contact de sortie.)



(8) Tighten the unit fixing screws on the top of the unit for the power supply section and the unit for the contact output section. (Tightening torque: 0.36 to 0.48 N·m) (Serrez les vis pour fixation l'unité au sommet de l'unité pour la section d'alimentation électrique et de l'unité pour la section de contact de sortie. (Couple de serrage: 0.36 à 0.48 N•m))



6. Battery Installation and Replacement

6.1 Installing battery

This product is shipped with the battery connector removed. Before use, make sure to connect the battery connector.

- (1) Open the battery cover on the bottom of the product.
- (2) Check that battery is properly installed.
- (3) Insert the connector on the battery into the case side connector pin in the right direction.





6.2 Replacing battery

When the battery reaches its end of life, the "ERR." LED on the server section lights red. Replace the battery with a new one. (See "11. Options" of this instruction manual.)

- Open the front cover on the server section, and hold the RESET/SELECT switch to the SEL position.
- (2) When the "CF CARD" LED goes out, turn this product off.
- (3) Open the battery cover on the bottom of the server section.
- (4) Remove the battery from the holder.
- (5) Insert a new battery into the holder in the right direction and connect the lead connector to the connector.
- (6) Close the battery cover.
- (7) Turn this product on.





7. IP Address Setting

7.1 Setting IP address

- (1) Install setting software to computer.
- (2) Connect this product via a LAN straight cable or crossover cable to a PC that has the configuration software installed in it.

(3)	Take a note of the IP address set i	n the	PC.		
	PC's IP address	:			
	PC's subnet mask	:			
	PC's default gateway	:			

(4) Change the IP address set in the PC according to the IP address (factory setting: 192.168.10.1) set in the product.

IP address set in the product	IP address to be set to the PC
<u>192.168.10</u> .1	<u>192.168.10</u> .xx
	xx is a value from 2 to 254.
	* The upper 3 digits should be consistent
	with those for the product.

(5) Use the setting software to set an IP address for EcoWebServer III. Launch the EcoWebServerIII setting software. As the following sample by Windows 10, displayed content might be different by OSs and installed applications.

[Start menu] > [MITSUBISHI Energy Management]







You can also launch the configuration software by double-clicking the **Model: MES3-255C-EN Setting Software ver3** icon on the desktop.

After a few seconds, the following project management window appears.

Project name	IP address	SL		
<double-click here="" register="" to=""></double-click>			Open	
			Delete	Change
			Сору	Backup
	-		Version	Restore
•		4		-

* If the User Account Control dialog box appears as shown below, Click Yes to launch the configuration software.



(6) Create a new project.

Double-click **<Double-click here to create a new project.>** in the project management window. Or

Select < Double-click here to create	a new project.>	and click Open.
--------------------------------------	-----------------	-----------------

Model:MES3-255C-EN setting software				
Model:MES3-255C-EN setting software Project name Couble-click here to register-	Creation project Project name: IP address: Subnet mask:	IP address 	St Open Delete [Copy [Vaccian [0 . 55 .	Change Backup Bestore
	Gateway: Comment:			Cancel

Configure the following settings in the Create New Project window and click OK.

	Optional
Project name	(Specify a name such as "Factory A" or "Floor B" so that you can recognize it
	as a project for EcoWebServer III.)
IP address	192.168.10.1
IF address	(Specify the factory default IP address.)
Subnet mask	255.255.255.0
Default gateway	Left blank
Comment	Optional

(7) Change the IP address for EcoWebServer III. Click Options in the project configuration window. Click IP address in the tree menu.

		Model:MES3-255C-EN	setting software		
		Project name	test		
		Data collecting settings		Project management	
		Normal settings	Extended settings		
			la In		
Options - IP address					
Time IP address Auto time adjustment	Password: (For maintenance)		Direct-wi	rite memory card	Options
Set logging time	P address setting(Before)		- IP address setting (After)		
For maintenance	IP address: 192 . 168 .	10 . 1			
For system management	Subnet mask: 255 . 255 .	255 0	→		
Version up of main program	Gateway:				Test
	DNS setting(Before) Number of DNS:		DNS setting (After)		
	DNS Server 1:				
	DNS Server 2:		7		
	DNS Server 3:				
	CH2				
	If you do not want to input and output through data by MC	protocol, do not need to cha	nge the IP address settings of CH2.		Close
	IP address setting(Before)		IP address setting (After)		
	IP address:				
	Subnet mask:	· · · · · · · · · · · · · · · · · · ·	→		
	Gateway:				
	Read-out network information				
	[Change] button will be enabled after reading-out networ	rk information.			
				Change	
				Close	

(8) Clicking the button displays the network information read confirmation message.



After reading is completed, the messsage below is displayed. Click**OK**.



The network information currently set in EcoWebServer III is reflected to the IP address setting (Before) and IP address setting (After) in CH1 and CH2.

IP address setting(Before)	(IP address setting (After)
IP address:	192 . 168 . 10 . 1		192 . 168 . 10 . 1
Subnet mask:	255 . 255 . 255 . 0	\rightarrow	255 . 255 . 255 . 0
Gateway:			1 14 14 10 1
DNS setting(Before)			DNS setting (After)
Number of DNS:	0		0 -
DNS Server 1:			
DNS Server 2:		\rightarrow	
DNS Server 3:	· · · · ·		
H2			
f you do not want to input and out	put through data by MC protocol, do not ne	ed to change th	e IP address settings of CH2.
IP address setting(Before)		-	P address setting (After)
IP address:	192 . 168 . 3 . 1		192 . 168 . 3 . 1
Subnet mask:	255 . 255 . 255 . 0	\rightarrow	255 . 255 . 255 . 0
		1000	

(9) Change the IP address in IP address settings (new).
 (The following figure shows an example of changing the IP address to 10.123.234.10. Type an IP address, subnet mask, and default gateway to be used for operation.)

ado	dress	se	tting (Af	ter) —		
ſ	10		123		234	10	
Γ	255		255		255	0	
C							J

(10) Type a maintenance password (factory default: ecopass) in Password and click Apply.

Password:	*****	(For maintenance)		
CH1				
- IP address setting(Refore)				

In the confirmation dialog box that appears after you click Change, click Yes.

Model:MES3-255C-EN setting soft	ware
Change IP address. Are you sure you want	to execute?
<u>Y</u> es	No

When the IP address configuration is complete, the following dialog box appears. Click OK.



- *1 After the IP address configuration is complete, EcoWebServer III is automatically reset. (After it is reset, the new IP address settings take effect.)
- *2 Resetting takes 1 to 8 minutes to complete. Check to see that resetting is complete and the "STA." LED on the EcoWebServer III main unit turns on before starting communications.
- *3 The values of **IP address**, **Subnet mask**, and **Default gateway** in the project information are also automatically updated with the new values.
- (11) After changing the IP address for the product, return the PC's IP address to its original address.

7.2 Checking IP address

- (1) Open the front cover on the server section, and set the MODE/STOP/RUN switch to the "STOP" position.
- (2) Hold the RESET/SELECT switch to the "SEL." position.
- (3) After the "CF CARD" LED turns off, turn the RESET/SELECT switch to the "RES." position.
- (4) After all the LEDs except the "POWER" LED on the power supply section turn off, return the RESET/SELECT switch to the central position.
- (5) Wait until the product starts up and the IP address is displayed on the 7-segment LED at the front.



IP address display (Display example of 192.168.10.1 set in the product)



(6) After you finish checking the IP address, turn the MODE/STOP/RUN switch to the "RUN" position.

8. Connection Diagram



8.1 Power supply section (Section de l'alimentation électrique)

*It is not mandatory to attach the noise filter to power source lines, but the noise could be reduced if it is attached.

Software and data of EcoWebServerIII is being saved in compact flash card.

It might cause data corruption by a power failure or an instant power. Please consider UPS if the power failure is frequently occurred. Please confirm the content to turn off EcoWebServerIII for a maintenance, Procedure refers to [Names and functions of parts].

8.2 Ethernet communication section(Section de communication Ethernet)

8.2.1 For initial setting (IP address setting) (Pour les réglages initiaux (adresse IP fixation))



8.2.2 For operation(Pour opération)



8.3 Ethernet communication section (CH2 to PLC) (Section de communication Ethernet (CH2))

8.3.1 For operation(Pour opération)



*Please see the details in PLC's instruction manual.

(*Voyez le mode d'emploi de PLC en détail.)

*FX series PLC is only supported for serial communication by using Ethernet/Serial converter.

(*Série FX est seulement soutenue pour la communication en série au moyen de convertisseur Ethernet/Série.)

*About the Ethernet/Serial Converter, we have check operation with "LINE EYE SI-65".

* Operation of MODBUS TCP – MODBUS RTU convertor model that has been functionally verified is LINE EYE SI-485MB.

8.4 CC-Link communication section(Section de CC-Link communication)



* The attached white: 130Ω 1 / 2W CC-Link terminating resistor is not used. (La résistance de terminaison CC-Link blanche de 130Ω 1 / 2W ci-jointe n'est pas utilisée.)

Point P=

The maximum transmission distance depends on the CC-Link communication speed setting. (Distance de transmission maximale compte sur la fixation de la vitesse de communication.) Perform wiring according to the following table so that it will not exceed the maximum transmission distance. (Réalisez le câblage selon la table suivante afin qu'il n'excède pas la distance de transmission maximale.)

Communication speed (Vitesse de la communication)	156 kbps	625 bps	2.5 Mbps	5 Mbps	10 Mbps
Cable length between stations (Vitesse de la communication)	20 cm or longer (20 cm ou plus)				
Max. transmission distance (Distance de transmission maximale)	1200 m	900 m	400 m	160 m	100 m





Terminal symbol	Function
0 to 9, A to F	Contact relay output 0 to 9, A to F (100 to 240 V AC or 24 V DC)
COM	Contact relay output common (common for output 0 to 9, A to F)
NC	Not used

Point P

When a counter or timer that uses a DC-DC converter is connected as a load, its inrush current should be below the maximum load current of the contact output section.

(Si l'un comptoir ou chronomètre ce qu'il utilise un DC-DC transformateur sera connecté comme une charge, le courant d'afflux doit être inférieur au courant de charge maximum de la section de contact de sortie.) If the inrush current is large, perform any one of the following to reduce the impact of the inrush current. (Si le courant d'afflux est grand, réalisez l'un des suivants pour diminuer l'impact du courant d'afflux.)



9. Requirement for the compliance with EMC Directives

EMC Directives prescribe both "Emission (electromagnetic interference): Do not radiate strong electromagnetic waves outside" and "Immunity (electromagnetic susceptibility): Do not be influenced by electromagnetic waves from outside".

This section compiles the precautions for the compliance of the system incorporating Energy Saving Data Collecting Server (target model: MES3-255C-EN) with the EMC Directives. The following description is based on the requirement of the regulations and the standards we understand, but we do not guarantee to comply with the directives above for the whole system built in accordance with this description. The manufacturer of the system finally needs to evaluate the way of the compliance with EMC Directives and whether the system complies with them or not.

- (1) Harmonized standard for EMC Directives: EN61000-6-2: 2005, EN61000-6-4: 2007/A1:2011
 - (a) Compatibility condition for harmonized standard Energy Saving Data Collecting Server is the open type device (i.e. the device incorporated in other device), and needs to be installed in the conductive control panel. The unit is tested with installed in the control panel for the emission and the immunity out of the test items for the standard.
- (2) Recommended condition for installation in the control panel
 - (a) Control panel
 - Control panel needs to have conducting property.
 - When bolting the top panel, bottom panel etc. of the control panel, mask the grounding part of the panel so as not to be painted.
 - In inner panel, keep the conductivity in as large area as possible by masking the bolting part to the main panel to keep the electric contact to main panel.
 - Ground the main panel by the thick wire so as to keep high impedance even for high-frequency wave.
 - (b) Installation of power line and ground line
 - Set up the ground point to the control panel near Energy Saving Data Collecting Server, and ground the frame GND terminal of the unit to the ground terminal of the control panel (PE) by as thick and short wires as possible. (wire length is 30cm or shorter)
- (3) Cable

(a)Auxiliary power, Input voltage, CC-Link cable, Ethernet cable, Contact output

When it is necessary to comply with the EMC Directive (EN61000-6-2: 2005, EN61000-6-4: 2007/ A1:2011), attach EMI filter and ferrite cores to each cable. EMI filter and Ferrite cores used in our testing is below.

- Auxiliary power
 - SOSHIN ELECTRIC CO., LTD, NF2060A-RQ
- CC-Link cable, Ethernet cable, Contact output TDK, ZCAT2235-1030A

10. Specifications

10.1 Hardware specifications

Item			Specifications								
	Input pow	er si	upply	áloctriquo)	AC 100 to 240 V (+10%, -15%)						
	Input freq	uenc	cy .	electrique)	50/60 Hz (±5%)						
	(Fréquene Input volta	ce d' age (<u>entrée)</u> distortio	า							
	(Distorsio	n) tion	\/A		Within 5%						
	(Consom	natio	on VA)		19 VA (at AC 11	0 V), 25 VA (at	AC 220 V)				
	Inrush cu (Courant	rrent d'affl	ux)		20 A, 8 ms or le	ess(20 ms ou me	oins (100 V AC	ou plus))			
	Allowable	mor	mentary	power	20 ms or less (*	100 V AC or hig	her)				
	menuput		lie		L,N terminals –	extemal case			AC 2,210V i	n 5 seconds	
	Withstand	l volt	tage		L,N terminals – L,N terminals –	output terminal CC-Link comm	s unication termi	nals			
	lu audatiau				L,N terminals –	external case	_		10 MΩ at D0	C 500 V	
	Insulation	resi	stance		L,N terminals – L,N terminals –	CC-Link comm	s unication termi	nals			
_	Noico imr	nuni	h.,		By noise simu	lator with a nois	se voltage of 1	500 Vp-p, a nois	se width of 1 µ	s and a noise	
tion	NOISE IIII	nunn	ly		Noise voltage	IEC61000-4-4,	2 kV				
sec	Operating	am	bient ter	nperature	0 to 55°C						
ply	Storage a	mbie	ent temp	erature	-25 to +75°C						
dns	Operating	am	bient nu	miaity	5 to 95% RH						
er s	Vibration	resis	stance	uity	5 10 95% KH			Constant	Half		
MO	VIDICION		anoc			-	Frequency	acceleration	amplitude	Sweep count	
ш					Conforming to	Intermittent	5 to 9 Hz	-	3.5 mm	10 times in	
					JIS B 3502,	vibration	9 to 150 Hz	9.8 m/s2	-	each X, Y, Z	
					120 01101-2	Continuous	5 to 9 Hz	-	1.75 mm		
						vibration	9 to 150 Hz	4.9 m/s2	-	_	
	Impact re	sista	nce		Conforming to	JIS B 3502, IEC	61131-2 (147	m/s2, 3 times ir	n each XYZ dir	ection)	
	Operating	env	rironmer	It	No corrosive ga	is					
	Uperating attitude				2000 III OI Delow						
	Overvolta	de c	ategory	(*1)	II or below						
	Contamin	atior	n level (*	(2)	2 or below						
	Mass			•	0.9 kg						
	Fuse	-			Built-in (unchangeable by user)						
	ERR	App	lication	h in ar	Off when no power is input, the product is reset, or fuse blows						
	terminal	Rate	ed switc	ning ent	24 V DC, 0.5 A						
		Min	. switchi	ng load	5 V DC. 1 mA						
		Life		0	Mechanical: 20,000,000 times or more, electrical: 100,000 times or more (at rated						
					switching voltage/current)						
	Ethernet	Inte	rface	n mathad	10BASE-T/100BASE-TX						
		Cas	cade co	nnection limit							
		Мах	. segme	ent length	100 m	<u>, , , , , , , , , , , , , , , , , , , </u>					
		Con	npatible	Connector	RJ45						
		Fun	ctions s	upported	Autonegotiation (10BASE-T/100BASE-TX automatically detected)						
			I AN CI		HTTP (view by web browser) FTP (read time file transfer)						
				···	SMTP (send r	SMTP (send mail), SNTP (set time)					
tion		col		client	Ethernet direc	ct: QnA compa	tible 3E fram	e (ASCII)			
sect		oto	ξĞ		Ethernet / Ser	ial conversion	time: A com	patible 1C frar	ne format 4 (ASCII)	
er s		Рг	pro	Server(*3)	3 E frame (binary) / 4 E frame (binary)						
Serv			Ψų		o (2						
	Clock	0 to	<u>55°C</u>		Per dav: -10.89	to +8.64 sec	Additional dif	ference of ±0.5	seconds can b	be produced	
	accuracy	25°	2		Per day: -4.32 t	o +5.25 sec	during outage	es.			
	Backup	Bac	kup data	a	Backup is made	e using the batte	ery.				
	tor algotric				· Clock	data for the las	t 1 hour				
	blackout				Backun is made	uata for the las	tile memory ca	rd			
	(*4)				 Setting values 	5		•			
	. ,				Measurement	data except the	e one for the la	st 1 hour			
	Battery	Тур	e		Lithium mangar	nese dioxide pri	mary battery				

	Item		Specifications					
	Initial voltage		3.0 V					
		Nominal current	1800 mAh					
		Life when in storage	5 years at room t	temper	rature (actual service va	llue)		
		Life when in use	Energization	Guar	anteed value	Guaranteed time after b	pattery error	
			0%	13 7(0 hours 1 57 years	600 hours 25 days		
			30%	19.10	0 hours 2 18 years			
			50%	25,80	00 hours, 2.96 years			
			70%	40,00	00 hours, 4.57 years			
			100%	43,80	00 hours, 5 years			
	Transmis	ssion speed	156 kbps / 625	kbps	/ 2.5 Mbps / 5 Mbps	/ 10 Mbps		
	Max. ove	erall cable length (Max.	Communicat	ion	Cable length	Max. overall cable		
	transmis	sion distance)	speed		between stations	length		
			156 kbps			1200 m		
			625 kbps		ľ	900 m		
			2.5 Mbps		20 cm or longer	400 m		
			5 Mbps		- J	160 m		
			10 Mbps		-	100 m		
_	Max n	umber of connected	64 units under	the fo	llowing conditions			
ior	units		1 Total num	ber of	stations			
act			$a + b \times 2$	+ c × 3	$3 + d \times 4 \le 64$			
) S			a: Numb	her of	units occupying 1 sta	ation b. Number of unit	s occupying	
ior			2 station	ns. c:	Number of units occu	ipving 3 stations, d: Nu	mber of units	
cat			occupvi	na 4 s	stations	.p)g o otaliono, al ria		
iu			2. Number o	f con	nected units			
Ĩ			16 × (A +	D) + 5	$54 \times B + 88 \times c \le 230$	4		
Ш			A Num	ber of	remote I/O station ur	nits	- 64 units max	
Õ			B: Num	her of	remote device statio	n units	- 42 units max	
i.			C: Num	her of	local station/intellige	nt device station units	- 26 units max	
금			D: Num	her of	reserved station unit	s*	20 anito max.	
ŏ			* Unregistere	ed sta	tion numbers betwee	n the station number 1	and	
			the last sta	tion n	umber are counted a	s reserved station units		
	Commur	nication method	Broadcast polli	na me	ethod			
	Synchro	nization method	Frame synchro	nous	method			
	Fncodin	n method	NRZI method					
	Transmis	ssion path type	Bus (RS-485)					
	Transmis	ssion format	HDI C compliar	nt				
	Frror cor	ntrol method	$CRC (X^{16} + X^{12})$	2 + X ⁵	+ 1)			
	Connect	ion cable	Ver 1 10-comp	atihle	CC-Link dedicated c	ahle		
	Number	of output points	16 points					
c	Insulatio	n method	Relay insulation	n				
tio	Rated sv	witching voltage/current		neietai	nce load)			
ec.	Nateu Sv	incling voltage/current	240VAC 2A(10)	COS	n=1)	/1 noint 8	A/1 common	
ut s			(24 V DC 2 A (ch	arge d	le résistance))	/ i politi, o	A I common	
tpr			(240 V AC 2 A (COSo=1)) (/1 point. 8 A/1 commun)					
no	Min. swit	ching load	5 V DC, 1 mA			· · · ·	,	
gct	Max. sw	itching load	264 V AC 2 A,	125 V	DC 2 A			
nta	Life	~	Mechanical: 20	,000.	000 times or more.			
ပိ			electrical: 100,0	000 ti	mes or more at rated	switching voltage/curre	ent	
_			EMC: EN61000)-6-2:	2005, EN61000-6-4:	2007/ A1:2011		
Com	Compatible standards		Safety: EN61131-2: 2007. LIL: LIL 508. c-LIL: CSAC22.2 No. 1/					

*1 This indicates the assumed area of electric distribution to which the device is connected, the area ranging from public distribution to factory machinery. The measurement category II applies to the device power-supplied from fixed facility. The surge voltage of this product is 2500 V up to the rated voltage of 300 V. (IEC 60664-1)

*2 The index indicates the level of conductive substance at the device's operating environment. Contamination level 2 means only non-conductive substance. However, occasional condensation may lead to temporary conduction. (IEC 60664-1)

*3 It is only for products with demand control function.

*4 If the unit is reset when power failure compensation is not available by expiration of power failure compensation period, set time would be changed to the initial status (00:00 on 1st of January, 2002).
If the time is changed with this status, measured data may be disappeared.
Necessary data should be measured before changing the time setting.
About the data collecting method please refer to "Data Collecting" part in chapter 4.7.1 for maintenance of the user's manual (Settings).

*5 For UL/c-UL standard, please use the copper conductors wire which temperature rating is 60 °C /75 °C.

10.2 Operation environment

The system environment requirements for this software to properly operate as follows:

[PC]

Item	Description
OS (basic software)	Microsoft Windows 7 Professional (32-bit or 64-bit) (English version) SP1
	Microsoft Windows 8.1 Pro (32-bit or 64-bit) (English version)
	Microsoft Windows 10 Pro (32bit, 64bit) (English version)
CPU	1 GHz or higher Pentium [®] processor, or compatible microprocessor
	(DOS/V compatible)
Memory ^{*1}	1 GB or more
Hard disk ^{*1}	Save data collected by EcoWebServerIII to PC, enough disk space for the data is
	required
CD drive	One or more drives (required to install the setting software)
Display resolution	1,280 × 1,024 pixels or more
Display color	65,536 colors or more
Input device	A mouse and a keyboard
English input system	The system included in OS (English version only)
External interface	10BASE-T/100BASE-TX
	Memory card reader (when writing / reading / confirming a project via drive
	by setting software)
Web browser *2	Microsoft Internet Explorer 9 (32-bit), 10 (32-bit), or 11(32-bit)
	Microsoft Edge
	Google Chrome

- *1 Note that the required memory and free space of hard disk vary depending on the system environment.
- *2 Operation check for Microsoft Edge is done in version 97. Operation check for Google Chrome is done in version 97.

[Tablet *3]

Item	Desc	cription
OS	Android6.0	iOS10
Web browser *4	Google Chrome	Safari

*3 Tablet is only for browsing the web screen. Setting software cannot be used on the tablet.

*4 Operation check for Google Chrome is done in version 54. Operation check for Safari is done in version 10.

11. External Dimensions

11.1 External dimensions



(Unit: mm)

11.2 Setting conditions

The space conditions is necessary for heat dissipation and battery replace.



* When trunking is less than 50mm. In other cases is over

12. Options

Product name	Model name	Note
Replacement battery	Q6BAT	Recommended replacement time: 3 years

For inquiries on the replacement battery, contact the dealer where you purchased this product.

13. Troubleshooting

If the product gives off abnormal noise, smell, smoke or heat, turn the power off immediately. Check the following items for troubleshooting.

Situation	Check points
The POWER lamp on the power supply section does not turn on.	 Is power supply (100 to 240 V AC, 50/60 Hz) properly connected between L and N on the terminal block of the power supply section? Is there any short-circuit or break in the power line?
The "ERR." LED on the CC-Link communication section is lighting or blinking.	Is there any error in communication with CC-Link terminal devices? Check whether CC-Link terminal devices, CC-Link station numbers and CC-Link baud rate are properly set and communication cables and termination resistance are properly connected.
The "ERR." LED on the server section is lighting.	 The battery is at the end of its life. Replace the battery. Refer to 6.2Replacing battery. Please check if the battery is properly connected.
The "STA." LED on the server section is blinking for a long time.	The data in memory card is being restored during startup. The product starts up normally after a few minutes.
"E1" is displayed on the 7-segment LED on the server section.	Access to the internal memory has failed. Reset the product. Refer to 12.1Reset of the product.
"E2" is displayed on the 7-segment LED on the server section.	Access to memory card has failed. Reset the product. Refer to 12.1Reset of the product.
"E3" is displayed on the 7-segment LED on the server section.	Automatic time synchronization with the SNTP server has failed. Check whether communication with the SNTP server is normally running or settings in the SNTP server are correct.
"E4" is displayed on the 7-segment LED on the server section.	File transfer to the FTP server has failed. Check whether communication with the FTP server is normally running or settings in the FTP server are correct.
The indication rotates on the 7-segment LED on the server section.	Is any CompactFlash card other than that supplied with the product connected? Only the supplied CompactFlash card can be used. Connect the supplied card. Please compare CompactFlash and the right side of main product by the sheet in the right.
Illegal data is displayed when you reset the product or change the clock setting while browsing.	Close the browser and restart it.
'01' blinks on the 7-segment LED of the server section at startup and the product does not start.	It occurs when the battery is exhausted or when there is a power outage for a long time without connecting the battery. Initialize the body memory. Refer to 12.2Initialization of the body memory.

If you cannot solve your problem according to the check items above, contact your supplier or us.

13.1 Reset of the product

- (1) Open the front cover on the server section, set the RESET switch to SEL., and check that the CF CARD LED is off.
- (2) When setting to the RES., you hear a click. Check that all the LEDs other than POWER of the power supply are off.

(3) Return the RESET switch to the central position.



The main unit memory requires initialization when you use the product for the first time or when you keep the product nonenergized for an extended period of time with the battery exhausted or disconnected ("01" blinks on the 7-segment LED of the server section at startup).

- (1) Check that the main unit is turned off.
- (2) Install the battery.
- (3) Open the front cover on the server section, and set the MODE/STOP/RUN switch to STOP.
- (4) Turn the main unit on with the MODE/STOP/RUN switch in the MODE position.



- (5) After the MODE LED lights up orange and 00 is displayed on the 7-segment LED, return the MODE/STOP/RUN switch to the STOP position.
- (6) Turn the RESET switch to the SEL. position 9 times to see 11 on the 7-segment LED.
- (7) Turn the MODE/STOP/RUN switch to the RUN position. The RUN LED blinks and initialization of the body memory starts.
- (8) After the RUN LED turns off and 00 is displayed on the 7-segment LED, turn the RESET switch to the RES. position.
- (9) Turn the RESET switch to the RES. position to see all the LEDs other than the POWER LED of the power supply section are off, and return the RESET switch to the central position.
- (10) Formatting of the body memory starts. (The RUN LED blinks and the STA. LED blinks green.)
- (11) After the MODE LED starts blinking green, turn the RESET switch to the RES. position to see all the LEDs other than the POWER LED of the power supply section are off, and return the RESET switch to the central position. This is the end of the initialization of the body memory. Set up the IP address. Refer to 7.1 Setting an IP address.

14. Warranty

- This document and product have undergone strict quality control and inspection before delivery, but in the unlikely event that the document or product is defective in manufacture, our company shall provide replacement. Contact the distributor from which you purchased them. However, this warranty does not apply to the product or document that has been damaged by acts of God or misapplication.
- Our company shall not be liable for any damages arising out of your or third parties' system troubles, legal problems, misapplication, failures during use, or any other defects.
- The product is warranted for a period of less than one (1) year from the date of your purchase or from the date of delivery to your specified location or within eighteen (18) months from the date of shipment from our factory (from the month and year of manufacture), whichever is less.
- •The warranty period shall not be renewed after repair.

MEMO

Software License Agreement

This "Software License Agreement" (hereinafter referred to as "the Agreement") is applicable to the relevant software (hereinafter referred to as "the Software") manufactured and sold by the Mitsubishi Electric Corporation (hereinafter referred to as "Mitsubishi Electric"). Software means all programs on the recording media and all related documents.

Article 1 (License of use)

Mitsubishi Electric shall hereunder agree to grant the user the license to use the Software, and the user shall accept all provisions stated below and agree not to assign such license of use to anyone other than contractors and not to possess an exclusive license of use.

Article 2 (Reproduction of the Software)

The user must not reproduce all or part of the Software, except for the following:

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三菱省エネデータ収集サーバEcoServerIII(MES3-255B/MES3-255C)定格銘板位置について

三菱节能数据收集服务器EcoWebServerⅢ(MES3-255C-CN) 关于额定铭板的位置

<u>Mitsubishi Energy Saving Data Collecting Server</u> <u>EcoWebServerIII(MES3-255C-EN)</u> <u>additional information on the place of the rating label</u>

定格銘板例 / 额定铭板参考例 / Example of the rating label

MES3-255C-EN の例です。 以 MES3-255C-EN 为例。 Example of MES3-255C-EN is shown below.



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Mitsubishi Energy Saving Data Collecting Server EcoWebServerIII

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