



Wi-Fi INTERFACE

MODEL

MAC-568IF-E

INSTALLATION GUIDE

Wi-Fi

HEAT PUMP CONTROL

Intelligent control, no matter where you are.



Setting Information

Indoor unit model name	
Indoor unit serial number	
Outdoor unit model name	
Outdoor unit serial number	
Wi-Fi Interface MAC address (MAC)	
Wi-Fi Interface serial number (ID)	
Wi-Fi Interface PIN (PIN)	
Wi-Fi Interface SSID (SSID)	
Wi-Fi Interface KEY (KEY)	
System commissioning date	
Wi-Fi Interface installation date	

Installer Contact Details

Name	
Telephone Number	

Wi-Fi Interface Minimum Requirements for Operation:

- Router capable of WPA2-AES encryption. 2.4GHz needs to be enabled on dual band routers. The wireless network coverage must include the heat pump installation location.
- A PC or Smartphone/Tablet that is iOS/Android compatible.
- A compatible Mitsubishi Electric indoor unit with a Wi-Fi Interface.

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About Wi-Fi Interface

This Wi-Fi Interface communicates the status information and controls the commands from the server by connecting to an indoor unit.

Safety Precautions

- Read all safety instructions before installation, setting up, or use of the Wi-Fi Interface.
- This installation manual contains important safety information. Be sure to comply with the instructions.
- After installing the Wi-Fi Interface, provide this installation manual for the user. Instruct users to store it with their indoor unit instruction manual in a safe location.

[Precautions for installation]

Warning

(Improper handling may have serious consequences, including serious injury or death.)

- **Do not install the Wi-Fi Interface by yourself (user).**
Improper installation may result in fire, electric shock, injury due to fall of the Wi-Fi Interface, or water leaks. Consult the dealer from whom you purchased the Wi-Fi Interface or professional installer.
- **The Wi-Fi Interface should be securely installed in accordance with this installation manual.**
Improper installation may result in fire, electric shock, or damage, or the Wi-Fi Interface falling.
- **The Wi-Fi Interface should be mounted in a location that can support its weight.**
If the Wi-Fi Interface is installed in a location that cannot support its weight, the Wi-Fi Interface could fall and cause damage.
- **Connect and fasten the electric wires securely so external force on the wires will not apply on the terminals.**
Improper connection and mounting may result in breakdown, heat generation, smoke generation, or fire.
- **Mitsubishi Electric's components or other designated components must be used for installation.**
Improper component may result in fire, electric shock, or damage/water leaks.
- **Electric work must be performed by authorized personnel in accordance with the local regulations and the instructions detailed in the installation manual.**
Inadequate circuit capacity or improper installation may result in electric shock or fire.
- **Do not connect the Wi-Fi Interface to earth inside the indoor unit.**

Warning

(Improper handling may have serious consequences, including serious injury or death.)

- **Attach the electrical cover to the indoor unit securely.**
If the electrical cover of the indoor units is not attached securely, it could result in a fire or an electric shock due to dust, water, etc.
- **When installing the Wi-Fi Interface, use appropriate protective equipment and tools for safety.**
Failure to do so could cause injury.
- **Turn off the breaker or unplug the power supply plug of the indoor unit when connecting the Wi-Fi Interface.**
Failure to do so could cause electric shock.
- **Make sure to connect the connector of the Wi-Fi Interface to the P.C. board of the indoor unit properly.**
Incomplete connecting or mounting may result in broken wire, heat generation, smoke generation, or fire.
- **Do not install the Wi-Fi Interface nearby the automatic control devices such as automatic doors or fire alarms.**
It can cause accidents due to malfunctions.
- **Do not disassemble, modify, or repair by yourself.**
It can cause electric shock, fire, or injury.
- **Do not use the Wi-Fi Interface near medical electrical equipment or people who have a medical device such as a cardiac pacemaker or an implantable cardioverter-defibrillator.**
It can cause an accident due to malfunctions of the medical equipment or device.
- This equipment should be installed and operated with a minimum distance of 20cm between the device and the user or bystanders.

Caution

(Improper handling may have consequences, including injury or damage to building.)

- **To prevent damage from static electricity, touch a nearby metal body to discharge static electricity from yourself before touching the Wi-Fi Interface.**
Static electricity from the human body may damage the Wi-Fi Interface unit.
- **Do not install the Wi-Fi Interface in a place which produces steam, such as bathrooms and kitchens.**
Avoid places where water is splashed or where condensation forms on walls. Installing in such places can cause electric shock or breakdown.
- **Do not install the Wi-Fi Interface in places with direct sunlight or where the ambient temperature is 40°C or more or is 0°C or less.**
Direct sunlight and high or low temperature environments may cause the Wi-Fi Interface to deform or breakdown.
- **Do not use in special environments.**
Use in places with oil (including machine oil), steam, or sulfuric gas may lead to severe decrease in functionality and damage to parts.
- **Turn off power supply of connected equipment when performing construction or wiring work.**
Failure to turn off the power supply to the connected equipment may lead to malfunction or breakdown of the Wi-Fi Interface or connected equipment.
- **The connecting cable must not touch piping directly.**
- **Do not use the Wi-Fi Interface near other wireless devices, microwaves, cordless phones, or facsimiles.**
It can cause malfunctions.
- **Do not mount the Wi-Fi Interface where children can reach.**
It can cause injury.

[Precautions for setting up, or use of the Wi-Fi Interface]



Warning

(Improper handling may have serious consequences, including serious injury or death.)



Be sure not to do.

- **Do not disassemble, modify, or repair by yourself (user).**
It can cause electric shock, fire, or injury.
- **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**
- **Children should be supervised to ensure that they do not play with the appliances.**
- **This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.**
- **Children shall not play with the appliance. Cleaning and user maintenance shall not be done by children without supervision.**
- **Do not use the Wi-Fi Interface near electrical medical equipment or people who have a medical device such as a cardiac pacemaker or an implantable cardioverter-defibrillator.**
It can cause an accident due to malfunctions of the medical equipment or device.
- **Do not install the Wi-Fi Interface near automatic control devices such as automatic doors or fire alarms.**
It can cause accidents due to malfunctions.
- **Do not mount the Wi-Fi Interface where children can reach.**
It can cause injury.
- **Do not step on unstable step stool to set up or clean the Wi-Fi Interface.**
It may cause injury if you fall down.
- **Do not use the Wi-Fi Interface near other wireless devices, microwaves, cordless phones, or facsimiles.**
It can cause malfunctions.



Never touch with wet hand.

- **Do not touch the Wi-Fi Interface with wet hands.**
It can cause damage to the device, electric shock, or fire.



Never splash water on the unit.

- **Do not splash water on the Wi-Fi Interface or use it in a bathroom.**
It can cause damage to the device, electric shock, or fire.



Be sure to follow all the instructions.

- **Do not install the Wi-Fi Interface by yourself (user).**
Improper installation may result in fire, electric shock, or injury due to the Wi-Fi Interface falling. Consult the dealer from whom you purchased the Wi-Fi Interface or professional installer.



Be sure to disconnect the power supply plug from the power outlet.

- **When the Wi-Fi Interface is dropped, or the holder or cable is damaged, disconnect the power supply plug or turn the breaker OFF.**
It may cause fire or electric shock. In this case, consult your dealer.
- **In case of an abnormal condition (such as a burning smell), stop the indoor unit and disconnect the power supply plug or turn the breaker OFF.**
A continued operation in the abnormal state may cause a malfunction, fire, or electric shock. In this case, consult your dealer.

[Precautions for installation, setting up, or use of the Wi-Fi Interface]



Caution

(Improper handling may have consequences, including injury or damage to building.)



Be sure not to do.

- | | |
|--|---|
| <ul style="list-style-type: none">• Do not mount the Wi-Fi Interface where children can reach.
It can cause injury.• Do not step on unstable step stool to set up or clean the Wi-Fi Interface.
It may cause injury if you fall down. | <ul style="list-style-type: none">• Do not use the Wi-Fi Interface near other wireless devices, microwaves, cordless phones, or facsimiles.
It can cause malfunctions. |
|--|---|

Note

- | | |
|---|---|
| <ul style="list-style-type: none">• Please ensure that the router supports the WPA2-AES encryption setting before installation for this Wi-Fi Interface begins.• The end user should read and accept the terms and conditions of the Wi-Fi service before installation of this Wi-Fi Interface begins.• The router may be required to complete connection of this Wi-Fi Interface to the Wi-Fi service. | <ul style="list-style-type: none">• This Wi-Fi Interface should not be installed and connected to any Mitsubishi Electric System which is to provide application critical cooling or heating.• Please write down the model information and more on the last page "Setting Information", when you install this Wi-Fi Interface. |
|---|---|

Mitsubishi Electric's Wi-Fi Interface is designed for communication to Mitsubishi Electric's Wi-Fi service. Third party Wi-Fi Interfaces cannot connect to Mitsubishi Electric's Wi-Fi service. Mitsubishi Electric is not responsible for any (i) under performance of a system or any product; (ii) system or product fault; or (iii) loss or damage to any system or product; which is caused by or arises from connection to and/or use of any third party Wi-Fi Interface or any third party Wi-Fi service with Mitsubishi Electric equipment.

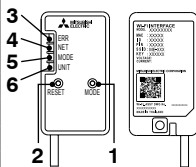
For the latest information regarding Wi-Fi Control:

New Zealand based enquiries please visit: www.mitsubishi-electric.co.nz/wifi

Australian based enquiries please visit: www.mitsubishielectric.com.au/wifi

Product Introduction

No	Item	Description
1	MODE Button	Selects modes.
2	RESET Button	Resets the system and ALL settings.
3	ERR LED (Orange)	Shows the network error state.
4	NET LED (Green)	Shows the network state.
5	MODE LED (Orange)	Shows the Access Point Mode state.
6	UNIT LED (Green)	Shows the indoor unit state.



(1) MODE Button

WPS-Push

- Hold down the MODE Button for 2 seconds to start WPS-Push Pairing.
- When WPS-Push is enabled on the Wi-Fi Interface, the MODE LED starts flashing orange (every second) and the pairing can be completed by enabling WPS-Push on the router.

Access Point Mode

- Hold down the MODE Button for 7 seconds to start Access Point Mode.
- When Access Point Mode is enabled on the Wi-Fi Interface, the MODE LED starts flashing orange (every 5 seconds).
- To cancel Access Point Mode, hold down the MODE Button for 7 seconds again and ensure that the MODE LED is no longer flashing.

WPS-PIN

- Hold down the MODE Button for 15 seconds to start WPS-PIN Pairing.
- When WPS-PIN is enabled on the Wi-Fi Interface, MODE LED starts flashing orange (every 0.5 seconds) and the pairing can be completed by enabling WPS-PIN on the router.
- Before using WPS-PIN, the PIN code of the Wi-Fi Interface needs to be set on the router.

(2) RESET Button

- Hold down the RESET Button for 2 seconds to reboot the system.
- Hold down the RESET Button for 15 seconds to initialise the Wi-Fi Interface to the factory default.

When the Wi-Fi Interface is reset to the factory default, ALL the configuration information will be lost. Take great care in implementing this operation.

Parts



Connecting the Wi-Fi Interface

(For details about your heat pump, see the relevant installation manual)

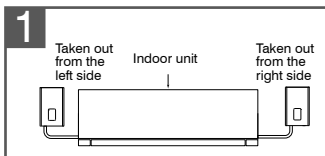
Before dismantling the indoor unit, turn the power off and make sure that the power has been disconnected from the complete system.

Dismantle the indoor unit in accordance with the service manual to access the main control PCB.

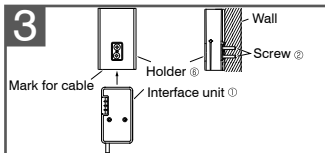
Locate the CN105 port on the main control PCB and connect the Wi-Fi Interface.

When mounting the interface unit ① inside an indoor unit, refer to the installation manual of the indoor unit. Do not mount the interface unit ① inside the indoor unit, unless mentioned in the manual.

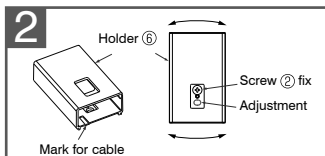
When mounting on the wall



The Wi-Fi Interface should be mounted with the cable in a downward position.

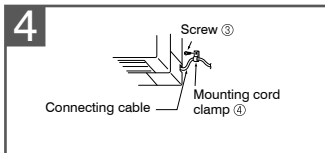


Insert the interface unit ① into the holder ⑥ until it clicks into place.

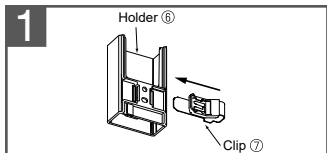


Mount the holder ⑥ on the wall so its mark for the cable faces downward.

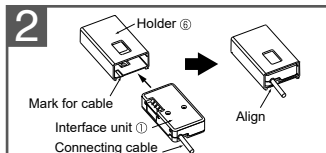
Note: Tighten the upper and then the lower screws; adjust and level the holder ⑥ using the elongated hole for the lower screw.



When mounting on the outer side of the indoor unit

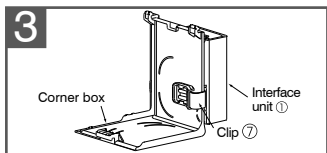


Insert the clip ⑦ into the holder ⑥ until it clicks into place.



Insert the interface unit ① into the holder ⑥ until it clicks into place.

Note: When inserting the interface unit ① into the holder, align the cable of the interface unit ① with the mark for the cable on the holder ⑥.

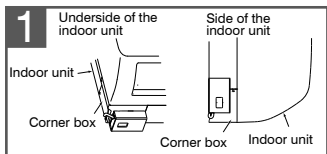


Slip the clip ⑦ over the edge of corner box to fix the interface unit ①.

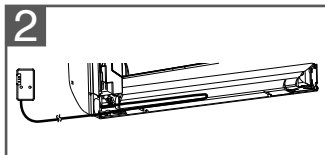


Note: Mount the interface unit ① on the underside of the indoor unit if it cannot be mounted on the side of the indoor unit.

Example of mounting on the left side of the indoor unit



Note: Interface unit ① can also be mounted on the right side of the indoor unit.



To check the LED indication after setup, remove the interface unit ① from the holder ⑥.

Run the connecting cable in the space on the back of the unit as shown in the above image. Tuck cabling away and secure it.

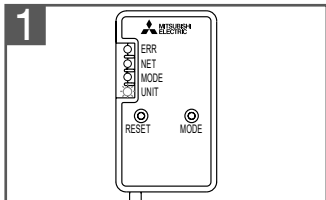
Note: Make sure that the connecting cable will not get caught on or between the installation plate and the wall, or between the indoor unit and the installation plate. Failure to do so may cause damage to the connecting cable resulting in communication problems.

Wi-Fi Interface: Setting Up Instructions

Information for users:

The following steps explain how to connect the MAC-568IF-E Interface to a router.

KEY (LED LIGHTS):  : ON  : OFF  : Flashing



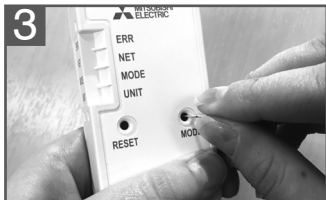
Ensure the Wi-Fi Interface is connected and communicating correctly as per previous section. **UNIT LED** should be flashing green only.



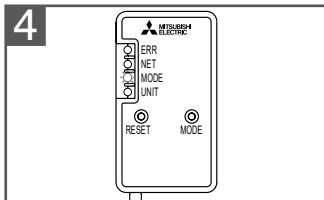
Download and install Wi-Fi Control App to your compatible Apple or Android smartphone/tablet (search term: Mitsubishi Wi-Fi Control).

THERE ARE TWO OPTIONS OF CONNECTING

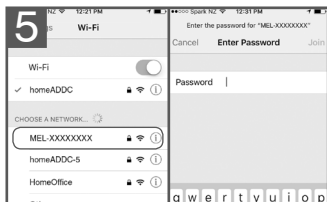
Option 1 - Access Point Mode Pairing



Activate Access Point Mode on your Wi-Fi Interface by using a small object to press and hold the MODE Button for 7 seconds.

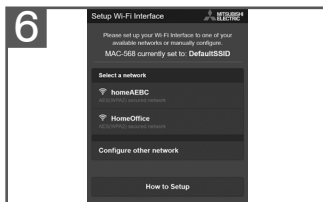


When Access Point Mode is enabled on the Wi-Fi Interface, **MODE LED** starts flashing orange (every 5 seconds).



Check the label on the back of the interface for the SSID. Open the Wi-Fi networks screen on your smartphone/tablet and connect to the network with the same name as the SSID. The network password is just under the SSID on the interface, labelled KEY.

You will now be connected to this Wi-Fi Interface.



Open Wi-Fi Control App and follow the 'How to Setup' instructions in the 'Setup Wi-Fi Interface' section.

If the app does not go to this section, you are not connected to the Wi-Fi Interface's Access Point, please start process again.

You can either select your available Wi-Fi Network, or manually configure a Wi-Fi Network.



Once completed, the MAC and ID will be populated in add new unit. Select add and then control your heat pump via Wi-Fi.

Option 2 - WPS-Push Pairing

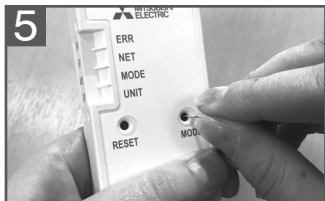


Check Wi-Fi and WPS are enabled on your router. The connection procedure varies depending on your router – refer to your router manual for more information.

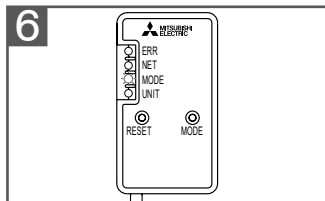


Activate WPS Mode on your router. This will be enabled for a set period allowing approximately 2 minutes to complete the next step. To do so, please refer to your router's manual.

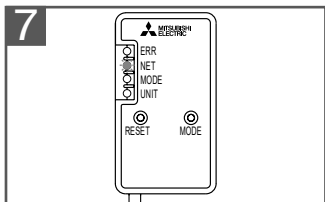
Please Note: The WPS and router reset buttons may be similar on some routers. Please exercise caution as resetting your router will erase network configuration.



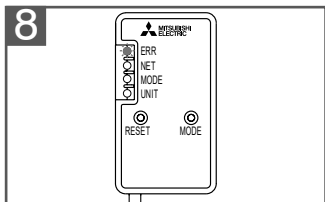
Activate WPS on your Wi-Fi Interface by using a small object to press and hold the **MODE** Button for 2 seconds.



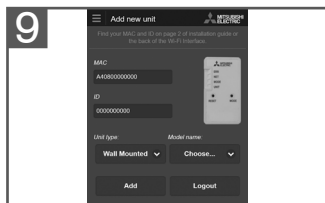
When WPS-Push is enabled on the Wi-Fi Interface, **MODE LED** starts flashing orange (every second).



When pairing process is completed on the Wi-Fi Interface the **NET LED** remains solid green for 5 seconds the Wi-Fi Interface is connecting to your router.



If **ERR LED** lights up orange at any stage there may be a problem, please start process again.



Open Wi-Fi Control App. Enter MAC and ID into add new unit.



Once completed, control your heat pump via Wi-Fi.

LED Pattern

☀ : ON ○ : OFF ⚙ : Flashing

● Software initialising				
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Firmware updating	○	☀	☀	○
Firmware downloading	○	⚙ (every second)	⚙ (every second)	○
Reset to the factory default	○	○	☀	☀
● Wireless setting				
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Access Point Mode activated	○	○	⚙ (every 5 sec)	⚙ (every 5 sec)
WPS-PUSH Mode activated	○	○	⚙ (every second)	○
WPS-PIN Mode activated	○	○	⚙ (every 0.5 sec)	○
Pairing process via WPS completed	○	☀ (5 sec)	○	○
Pairing process via WPS failed	☀ (5 sec)	○	○	○
● Connection to server in progress				
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Communicating with server, and starting up indoor unit communication	○	⚙ (*1)	○	☀
Communicating with server, and communicating with indoor unit	○	⚙ (*1)	○	⚙ (every 5 sec)
● Normal operation				
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Communicating with server, and communicating with indoor unit	○	⚙ (every 5 sec)	○	⚙ (every 5 sec)

(*1) Details of flash pattern

- Every 0.5 sec: Searching for server.
- Every second: Registering the information of the Wi-Fi Interface to server.
- Every 5 sec: Communicating with server.

Troubleshooting

☀ : ON ○ : OFF ⚡ : Flashing

Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Connection to server established, and connection to indoor unit failed	○	☀	○	○
Connection to router failed, and connection to indoor unit established	○	○ (*3)	○	☀
Connection to router failed, and starting up indoor unit connection	○	○ (*3)	○	☀
Connection to router failed, and connection to indoor unit failed	○	○ (*3)	○	○
Connection to server failed, and connection to indoor unit established	☀ (*2)	☀	○	☀
Connection to server failed, and starting up indoor unit connection	☀ (*2)	☀	○	☀
Connection to server failed, and connection to indoor unit failed	☀ (*2)	☀	○	○

(*2) Details of flash pattern

- Every 0.5 sec: IP address setting is invalid.
Check DHCP Settings of the Router, or check IP address settings of the Wi-Fi interface.
If both settings are correct but still the problem persists, push RESET Button for more than 15 seconds to retry the pairing..
- Every second: DNS setting is invalid.
Check DNS Settings of the Router, or check DNS address settings of the Wi-Fi interface.
If both settings are correct but still the problem persists, push RESET Button for more than 15 seconds to retry the pairing.
- Twice every 5 sec: Not connected to server.
Check if the router is connected to the internet.
- Once every 5 sec: Not communicating with server properly.
Push RESET Button for 2 seconds.

(*3) Details when NET LED is OFF

The Wi-Fi Interface failed to connect to the router.
Check the following, and pair the Wi-Fi Interface.

- Make sure that the communication distance is not too far between the Wi-Fi Interface and the router.
- Make sure 2.4GHz is enabled on dual band routers.
- Make sure that the router uses WPA2-AES encryption.
- Make sure that the number of connected devices to the router does not exceed the limit.
- Make sure that WPS is working on the router.
- Make sure that the router is compatible with the Wi-Fi Interface.
- If Static IP has been set - make sure it is correct as per router network settings.

If a problem regarding connecting your router and the Wi-Fi Interface persists, please contact your local Mitsubishi Electric office, as listed on the back of this guide.
A list of compatible routers is also available.

Specifications

Input voltage	DC12.7 V (from indoor unit)
Power consumption	MAX 2W
Size H×W×D (mm)	79×44×18.5
Weight (g)	105g (including cable)
Transmitter power level (MAX)	17.5 dBm @IEEE 802.11b
RF channel	1ch ~ 13ch (2412~2472 MHz)
Radio protocol	IEEE 802.11b/g/n (20)
Encryption	AES
Authentication	WPA2-PSK
Software version	XX.00
Length of cable (mm)	2,040

Mitsubishi Electric Wi-Fi Heat Pump Control

Register Your Heat Pump(s)

Thank you for choosing a Mitsubishi Electric Heat Pump with Wi-Fi Control. Once your Wi-Fi Interface is installed, either download the app (search term: Mitsubishi Wi-Fi Control) or visit our website to register your heat pump(s).



Once registered you will be able to control your heat pump with your smartphone, tablet or online account using an internet connection. (For a list of compatible devices, please visit the Mitsubishi Electric website).

User Manual

A copy of the user manual, terms & conditions and privacy policy can be downloaded at any time from the Mitsubishi Electric website.

Mitsubishi Electric New Zealand

www.mitsubishi-electric.co.nz/wifi

Phone: 0800 639 434

Mitsubishi Electric Australia

www.mitsubishielectric.com.au/wifi

Phone: 1300 728 119



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Contact Details

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MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD
AMATA NAKORN INDUSTRIAL ESTATE 700/406 MOO 7, TAMBON DON HUA ROH, AMPHUR
MUANG, CHONBURI 20000, THAILAND

JG79Y325H01