Changes for the Better



SYSTEM CONTROL INTERFACE Model MAC-333IF-E TECHNICAL MANUAL

MAC-333IF-E (SYSTEM CONTROL INTERFACE)

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1 PRODUCT SPECIFICATIONS

(1) Function table

This product enables the following function.

Function name	Description
MA remote controller connection	Connecting M-series to the wired remote controller (MA remote controller).
M-NET connection	Centralized control of M-series and other series * with P-series/City Multi-series. (Including ME remote controller connection)
Remote control	Linking and operating with an open/close switch, such as a card key.
Status signal output	Outputting the ON/OFF operation status and abnormal/normal signals.
ON/OFF control by main power source	Turning M-series on when the main power is turned on.

*• S-series

• Indoor unit(s) connected to SUZ or MXZ series

Function combination table

The following table shows the restrictions on the combination use of the functions.

• "ON/OFF control by main power source" can be used regardless of the following combinations, however, "ON/OFF control by main power source" cannot be used with "AUTO restart function" of the indoor unit at the same time.

Pattern	MA remote controller connection	M-NET connection	Remote control	Status signal output
1	0			
2		0		
3			0	
4				0
5	o %1	0		
6	0		0	
7	0			0
8		0	0	
9		0		0
10			0	0
11	o %1	0	0	
12	o %1	0		0
13	0		0	0
14		0	0	0
15	o %1	0	0	0

%1: When the MA remote controller is used with the M-NET system, only one MA remote controller is allowed be used.

FUNCTIONS AND ELECTRIC WIRING



(2) Specifications

Item Model	MAC-333IF-E
Power supply	12 VDC, Indoor power-receiving system
Dimensions	54(H) × 160(W) × 70(D)mm
Usage conditions	0 to 40 °C (32 to 104 °F), no condensation, indoor use only
Indoor unit connecting cable	Dedicated 5-core cable, 2 m
Weight	360 g

(3) External dimensions



2 INSTALLATION OF INTERFACE UNIT

The Interface unit should be placed in a location where the connecting cable (5-core) from the interface unit can reach the indoor unit.
The device will not function properly if the connecting cable (5-core) is extended, so do not extend the connecting cable (5-core).
Mount the interface unit securely to a pillar or a wall using 2 mounting screws.



Pass the connecting cable (5-core) from the interface unit through this location. Store extra connecting cable (5-core) in the duct work space behind the air conditioner.

If there is any slack in the connecting cable (5-core), use a fastener to keep the cable in place.

Mounting the interface unit directly to a wall

Mount the interface unit case to the wall using the mounting screws.



140 mm or more

When the interface unit is mounted above the indoor unit, the interface unit should be positioned 40 mm or more away from the unit to ensure that the top grille can be removed. Mounting the interface unit inside a ceiling

When mounting the interface unit inside the ceiling or the wall, install an access door to facilitate maintenance.



* When mounting the interface unit using a cushioning material, be sure to mount the interface unit in a location where it will not fall.

3 CONNECTION

(1) Connecting to the air conditioner

- Before performing the following procedures, turn off the main power to the air conditioner.
- Connect the connecting cable (5-core) that comes with the interface unit to the connector CN105 (CN92) on the indoor control board in a room air conditioner.
- Extending or severing the connecting cable (5-core) from the interface unit causes malfunction. Also, keep the connecting cable (5-core) as far as possible away from the power supply cord and earth wire. Do not bundle those cables and wires together.
- To prevent the indoor control board from being damaged by static electricity, always remove your static electricity before starting work.



- The connecting cable (5-core) connected to a room air conditioner should be wired according to the room air conditioner installation manual.
- Securely fix the connecting cable at the designated place. Failure to do so may cause an electric shock, fire, or malfunction.
- The connecting cable (5-core) connected to a room air conditioner should be fixed to the room air conditioner or its vicinity.
- If the mounting screw that comes with the room air conditioner does not fit, replace the mounting screw with the one that comes with the interface.



(2) Connecting to the systems

- Before performing the following procedures, turn off the main power to the air conditioner and all systems.
- If the connecting cable is not securely fixed, the connector may come off, and the interface could break or malfunction.
- The unit will not operate normally if the dip switches (SW500, SW502) and the rotary switches (SW501, SW510, SW580) on the interface unit are not set correctly.
- Replace the cable clamp according to the size of the connecting cable used Cable ties for each system. Fasten the cable tie as shown in the figure to prevent undesirable movement of the connecting cable.

(3) Connecting the M-NET communication cable

- To connect the interface to the system controller and/or ME remote controller, connect the M-NET communication cable to TB520 (non-polarized).
- Connect the 2-core communication cable to A1&B1 or A2&B2. (It does not matter which pair of connectors is used.)
- Connect the shield wire of the connecting cable to the S terminal only when the daisy chain method is used to wire the communication cable.
- M-NET communication cable should be located as far away from other power supply cords as possible. Placing them closely could cause a malfunction.
- After wiring is complete, fix each cable with the cable clamps, and attach the cable ties as shown in the figure.





MA remote controller

screw

MA remote con-

trol cable

Cable clamp (Large) or

(Medium)

Cable ties

Connect to the MA remote controller or Interface unit

(5) Checking the communication status

LED lamps on the interface unit indicate the status of the interface.

Check item	Setting of SW500-7	LED lamp	Description
Communication with room air conditioner	0N 0FF SW500-7	LE501 (Orange)	When the lamp is blinking at an interval of about 1 second, commu- nication with the room air conditioner is normal. When the lamp is off, communication with the room air conditioner is abnormal.
Communication with M-NET system control- ler	OFF SW500-7	LE502 (Red)	When the lamp is blinking at an interval of less than about 1 minute, communication with the M-NET controller is normal. When the lamp is off, communication with the M-NET controller is abnormal.
Communication with MA remote controller	0N 1 2 3 4 5 6 7 8 0N 0FF SW500-7	LE501 (Orange)	When the lamp is blinking at an interval of about 10 seconds, commu- nication with the MA remote controller is normal. When the lamp is off, communication with the MA remote controller is abnormal.
Power supply to MA remote controller	Not necessary	LE581 (Orange)	When the lamp is illuminated, power is supplied to the MA remote con- troller from the Interface unit. When the lamp is off, power is not sup- plied.

• SW500-7 can be switched after the main power is turned on. (Conduct the settings of other dip switches before turning on the power)

• When the communication is not normally performed, check for the disconnection of the communication cable from the connector or the terminal block.

(6) Power supply diagram

Multiple power sources are required according to the functions to be used.



4 SETTING OF DIP SWITCH AND ROTARY SWITCH

• Set the switches before turning on the power. The interface unit will not work normally if the switches are not set correctly.

1 Rotary switches (SW501, SW510) \dots M-NET address setting

SW No.	M-NET Address	Description
SW510	tens place ones place	Set the address for centralized control. (Address can be set from 01 to 50.)
SW501	SW510 *Both SW510 and SW501 are set to "0" at the factory setting.	 SW510 sets the tens place of the address and SW501 sets the ones place of the address. For example, to set the address to 25, set SW510 to "2" and SW501 to "5." * The figure to the left indicates that the address is set to "1". • Set different addresses to each unit in the same system.

2 Rotary switch (SW580) ... Refrigerant address setting

SW No.	Refrigerant Address	Description
SW580	SW580 *SW580 is set to "0" at the factory setting.	 When the MA remote controller is not used, set the refrigerant address (SW580) to "1." Set the address to "0" for the interface which supplies power to the MA remote controller. When more than one unit of room air conditioner is operated in the group setting, set different addresses to each unit. * A to F of the rotary switch corresponds to the refrigerant address of 10 to 15 respectively.

③ Dip Switch (SW500): Function setting switch A

SW No.	Functions	OFF (Factory setting)	ON
SW500-1	Not available	— (Set to OFF)	_
SW500-2	ON/OFF control by main power source	Disabled	Enabled
SW500-3	Detecting position of room temperature sensor	Indoor unit	MA remote controller
SW500-4	Output cottingo	Outputs for ON/OFF, error/normal, heater ON/OFF, and humidifier ON/OFF	
SW500-5	Output settings		
SW500-6	Input settings	Inputs for ON/OFF and disabling/enabling operation	Inputs for ON/OFF and heating/cooling
SW500-7	Interface status check display	LE501: Communication with indoor unit LE502: Communication with M-NET System LE581: Power supply to MA remote controller	LE501: Communication with MA remote controller LE502: OFF LE581: Power supply to MA remote controller
SW500-8	Not available	— (Set to OFF)	—

④ Dip Switch (SW502): Function setting switch B

SW No.		Functions	OFF (Factory setting)	ON
SW502-1	Output change		12 VDC is output during operation, in abnormal state, etc.	12 VDC is output when the air conditioner stops, in normal state, etc.
SW502-2	Input m	ode	Continuous contact	Instantaneous contact
SW502-3	Setting for the range of operation prohibited by contact switches		ON/OFF operation with M-NET system controller is enabled.	ON/OFF operation with M-NET system controller is disabled.
SW502-4	Input change	Input mode is set to continuous contact	Certain behavior is performed, for example running or operating the air conditioner is prohibited, by closing the continuous contact switch.	Certain behavior is performed, for example running or operating the air conditioner is prohibited, by opening the continuous contact switch.
		Input mode is set to Instantaneous contact	ON/OFF operation is inverted by switching the instantaneous contact switches.	Only either ON or OFF operation is enabled regardless of how often the contact switches are switched.
SW502-5	Behavior setting when the operation is prohibited by the contact switch		The state remains the same as that before the operation is prohibited.	The operation stops.
SW502-6	Behavior setting when the operation prohibition is cancelled by the contact switch		The state remains the same as that before the operation prohibition is cancelled.	The operation starts.
SW502-7	Not available		— (Set to OFF)	—
SW502-8	Setting when P series is included in the same group (only when running group operation using the MA remote controller)		Not included	Included

5 FUNCTIONS

5.1 M-NET CONNECTION

Function summary	MELANS system controller using M-NET communication control enables the centralized/separate control of the room air conditioner with the packaged air conditioner (P-series and City Multi-series).			
System configuration	Outdoor Indoor MAC333 M-NET ad [1]	unit Outdoor unit , unit Indoor unit , 3IF-E MAC333IF-E	MXZ-series outdoor unit Indoor unit MAC333IF-E M-NET address [3] (4) (50) (50) (50) (50) (50) (50) (50) (50	
Switch setting	•M-NET addres	ss setting		
	SW No.	M-NET address	Description	
	SW510 tens place ones place • SW510 sets the tens place of the address and SW501 sets the construction of the address. SW501 Image: SW510 Image: SW510 SW502 Image: SW510 Image: SW510 SW503 Image: SW510 Image: SW510 SW510 Image: SW510 Image: SW510 SW510 <th>For example, to set the address to 25, set SW510 to "2" and SW501 to "5."</th>		For example, to set the address to 25, set SW510 to "2" and SW501 to "5."	
	•Refrigerant a	ddress setting		
	SW No.	Refrigerant address	Description	
	SW580	SW580	 When the MA remote controller is not used, set the refrigerant address (SW580) to "1." To connect MA remote controller, refer to 5.2 "MA REMOTE CONTROLLER CONNECTION". 	
Specifications of communication cable	 Cable type a, b: 2-core shield cable (CVVS, CPEVS, MVVS), size 1.25 mm² or more			
Note	 The system settings, such as group setting, on the system controller are required. * Refer to the instruction manual for the system controller used regarding the system settings such as group setting. The number of indoor units that can be controlled depends on the type of the system controller. Refer to the instruction manual for the system controller used. When more than one system controller, ME remote controller or the like is connected, check the power supply capacity of the power supply unit. * Coefficient of performance of the interface unit is "0". Refer to the respective instruction manuals regarding the specifications of the communication cable for ME remote controller, system controller, or the like. To set the timer, use only one controller from the wireless remote controller, the ME remote controller, or the system controller, or the like. To set the timer, use only one controller, timer may not work normally. Vertical vanes of the indoor unit cannot be operated with the ME remote controller, the system controller, or the like. To poerate more than one air conditioner in the group setting using M-NET system, the following restrictions will be applied. The wireless remote controller cannot be used. P-series and City Multi-series cannot be set in the same group with M-series. When more than one room air conditioner is set in the same group using the system controller and the MA remote controller is also used together, the group control setting with the MA remote controller is required. The following functions of the system controller are not available. DID controller (Interlock with the air conditioner) Fan control of energy saving control or peak cut control function Air conditioning charge [TG-2000A] Set temperature range limiting function Operation mode changeover limit (season changing) [PAC-SF44SRA] 			

5.2 MA REMOTE CONTROLLER CONNECTION

(1) Connecting to the MA remote controller

Function summary	The wired remote controller (MA remote controller) can be connected to the room air conditioner.		
System configuration	a A B A CONTROL Inte MAC333IF-E	Indoor control board in the room air conditioner	
Switch setting	 To operate one indoor unit with the MA remote controller, the following switch setting is required. * To operate more than one air conditioner using group setting with the MA remote controller, refer to 5.2 "MA REMOTE CONTROLLER CONNECTION" (2) "Group operation using the MA remote controller". • Setting for refrigerant address 		
	SW No. Refrigerant address	Description	
	SW580	Set the refrigerant address to "0" for the unit that supplies electric power to the MA remote controller.	
	Setting for position of room temperat	ure sensor	
	SW No. Dip switch	Operating details	
	SW500-3	 SW500-3: OFF Temperature detected by the intake temperature sensor of the indoor unit is regarded as room temperature. SW500-3: ON Temperature detected by the temperature sensor of the MA remote controller is regarded as room temperature. 	
Specifications of communication cable	Cable type MA smooth remote controller or MA smart remote controller is used: 2-core sheathed cable, size 0.3 mm ² to 1.25 mm ² MA compact remote controller is used: 2-core sheathed cable, size 0.75 mm ² to 1.25 mm ² Cable length a: The distance between the interface unit with refrigerant address of "0" and the MA remote controller must be 10 m or less.		
Note	 Set the "auto COOL/HEAT display" on the MA remote controller to OFF. * Refer to the instruction manual for the MA remote controller regarding the setting method of "auto COOL/HEAT display". * If "auto COOL/HEAT display" is not OFF, the display on the remote controller and the actual operation of the indoor unit may differ. • Test run cannot be performed using the MA remote controller, the system controller, or the like. Use the switch on the indoor unit for test run. • Vertical vanes of the indoor unit cannot be operated with the MA remote controller, the system controller, or the like. • Timer should be set with either wireless remote controller or MA remote controller. If timer is set with both remote controllers, timer may not work normally. • If the MA remote controller is used without the M-NET system, a maximum of two MA remote controllers can be connected. One of the instruction manual for the MA remote controller regarding the setting method of a slave remote controller. • Refer to the instruction manual for the MA remote controller regarding the setting method of a slave remote controller. • If the MA remote controller will be used with the M-NET system, only one MA remote controller can be connected. 		

(2) Group operation using the MA remote controller



5.3 REMOTE CONTROL

(1) Card key connection (Switch will open by insertion of the card key.)

Function summary	Switch will open by insertion of the card key, which stops the room air conditioner.		
System configuration	SYSTEM CONTROL Interface MAC333IF-E CN591 1 Brown 2 Red 3 Orange	te here.	
Behavior	When the card is removed (and the switch is prohibited. "Paired remote controller" includes the wire and the ME remote controller.	opens), the ON/OFF operation from the paired remote controller is enabled. closes), the air conditioner stops and the ON/OFF operation from the paired remote controller eless remote controller that comes with the room air conditioner, the MA remote controller,	
Switch setting	· Card key connection (Switch will open b		
	SW No. Dip switch	Operating details	
	SW500 0FF 0FF 0FF 0FF 0FF 0FF 0FF 0FF 0FF	· SW500-6,8: OFF	
	SW502	· SW502-2,3,4,6: OFF · SW502-5: ON	
Specifications	• Cable type a: Sheathed cable, size 0.3 m	m ² or more	
of communication cable	••	0 m or less / Cable size is 0.5 mm ² : 100 m or less	
Note	 The operation of the paired remote controller prohibited by the card key is the ON/OFF operation only. Other operations, such as setting the temperature, are enabled. When the interface is connected to the M-NET system, even though the card key prohibits the operation with the paired remote controller, the ON/OFF operation with the system controller is enabled. When the interface is connected to the M-NET system, if the system controller prohibits the manual ON/OFF operation, the ON/OFF operation with the card key is prohibited. To enable the card key, do not disable the manual operation on the system controller. When the group setting is made with the M-NET system or the MA remote controller, connect the card key to the interface with the lowest M-NET address or refrigerant address. The wireless remote controller cannot be used together. 		

(2) Card key connection (Switch will close by insertion of the card key.)* Card key connection can be linked with the open/close switch of the window.

Function summary	Switch will close by insertion of the card key, which stops the room air conditioner.				
System configuration		CONTROL Interface AC333IF-E CN591 1 Brown 2 Red Orange	ulate here.	The card key must be the one that · closes the switch when inserted. · can be used on the following condition: 12 VDC, 0.5 to 2.0 mA	
Behavior	When the card is inserted (and the switch closes), the ON/OFF operation from the paired remote controller is enabled. When the card is removed (and the switch opens), the air conditioner stops and the ON/OFF operation from the paired remote controller is prohibited. ""Paired remote controller" includes the wireless remote controller that comes with the room air conditioner, the MA remote controller, and the ME remote controller.				
Switch setting	· Card key co	onnection (Switch will close b	oy insertion of the card key.))	
	SW No.	Dip switch		Operating details	
	SW500	OR 0FF	· SW500-6,8: OFF		
	SW502	ON 0FF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	· SW502-2,3,6: OFF · SW502-4,5: ON		
Specifications	Cable type a: Sheathed cable, size 0.3 mm ² or more				
of communication cable	• Cable length a: Cable size is 0.3 mm ² : 50 m or less / Cable size is 0.5 mm ² : 100 m or less				
Note	 Cable length a: Cable size is 0.3 mint: so in or less / Cable size is 0.5 mint: 100 morress The operation of the paired remote controller prohibited by the card key is the ON/OFF operation only. Other operations, such as setting the temperature, are enabled. When the interface is connected to the M-NET system, even though the card key prohibits the manual operation with the paired remote controller, the ON/OFF operation with the system controller is enabled. When the interface is connected to the M-NET system, if the system controller prohibits the manual ON/OFF operation, the ON/OFF operation with the card key, do not disable the manual operation on the system controller. When the group setting is made with the M-NET system or the MA remote controller, connect the card key to the interface with the lowest M-NET address or refrigerant address. The wireless remote controller cannot be used together. 				

(3) Coin timer connection (Switch will close after a coin is inserted.)

Function summary	Switch will close after insertion of a coin, which starts/stops the room air conditioner.			
System configuration		A CONTROL Interface MAC333IF-E CN591 1 Brown 2 Red 3 Orange	Insulate here.	Coin timer must be the one that · closes the switch when inserted. · can be used on the following condition: 12 VDC, 0.5 to 2.0 mA
Behavior	 When a coin is inserted (and the switch closes), the air conditioner starts the operation and the ON/OFF operation from the paired remote controller is enabled. When the timer expires (and the switch opens), the air conditioner stops and the ON/OFF operation from the paired remote controller is prohibited. "Paired remote controller" includes the wireless remote controller that comes with the room air conditioner, the MA remote controller, and the ME remote controller. 			
Switch setting	· Coin timer connection (Switch will close after insertion of a coin.)			
	SW No.	Dip switch		Operating details
	SW500	0N 0F	· SW500-6,8: OFF	
	SW502	0FF	· SW502-2,3: OFF · SW502-4,5,6: ON	
Specifications of communication	Cable type a: Sheathed cable, size 0.3 mm ² or more			
cable	· Cable lengt	h a: Cable size is 0.3 mm ² : 50 i	m or less / Cable size is 0.5 mm ² : 1	00 m or less.
Note	 The operation of the paired remote controller prohibited by the coin timer is the ON/OFF operation only. Other operations, such as setting the temperature, are enabled. When the interface is connected to the M-NET system, even though the coin timer prohibits the manual operation with the paired remote controller, the ON/OFF operation with the system controller is enabled. When the interface is connected to the M-NET system, if the system controller prohibits the manual ON/OFF operation, the ON/OFF operation with the system controller prohibits the manual ON/OFF operation, the ON/OFF operation with the coin timer, do not disable the manual operation on the system controller. When the group setting is made with the M-NET system or the MA remote controller, connect the coin timer to the interface with the lowest M-NET address or refrigerant address. The wireless remote controller cannot be used together. 			

(4) Coin timer connection (Switch will open after a coin is inserted.)



(5) Details of remote control (for giving priority to last operation performed by continuous contact switch)

Function summary	The operation can be started/stopped or enabled/disabled according to the last operation performed by continuous contact switches.		
System configuration	SYSTEM CONTROL Interface MAC-333IF-E a		
-	С	N591	 The switches can be used on the following condition: 12 VDC, 0.5 to 2.0 mA
		1 Brown	Switch 1
		2 Red	Switch 2
		Orange	j
Behavior	· When it clo	ens, the air conditioner stops. ses, the air conditioner operate	
	• Switch 2		ast command among those sent by switch 1, the paired remote controller, and the M-NET system controller.
			h the paired remote controller is enabled. th the paired remote controller is disabled.
			mote controller that comes with the room air conditioner, the MA remote controller, and the ME remote controller.
Switch setting	Input mode (continuous contact) Make settings for the continuous contact switches.		
	SW No.	Dip switch	Operating details
	SW500	0N 0FF	· SW500-6,8: OFF
	SW502	ON 0FF	· SW502-2,3: OFF
	· Input chang	e input logic.	
	SW No.	Dip switch	Operating details
			• OFF: It behaves as described in the "Behavior" section in this chart.
		ON 1 2 3 4/5 6 7 8	· ON : · Switch 1
	SW502-4		· When it opens, the air conditioner operates.
			When it closes, the air conditioner stops. Switch 2
		` OFF	\cdot When it opens, the ON/OFF operation with the paired remote controller is disabled.
	· Behavior se	tting when the operation is n	• When it closes, the ON/OFF operation with the paired remote controller is enabled.
	The air cond	litioner can be stopped wher	n the operation is prohibited by the contact switch.
	SW No.	Dip switch	Operating details
	SW502-5	ON 0N 0N 0N 0N 0FF	 Switch 1* It behaves as described in the "Behavior" section in this chart. Switch 2* When it opens, the ON/OFF operation with the paired remote controller is enabled. When it closes, the ON/OFF operation with the paired remote controller is disabled, and the state of the air conditioner will not change. ON: Switch 1* It behaves as described in the "Behavior" section in this chart. Switch 2* When it opens, the ON/OFF operation with the paired remote controller is disabled, and the state of the air conditioner will not change.
			When it closes, the ON/OFF operation with the paired remote controller is disabled. The air conditioner stops.
			hibition is cancelled by the contact switch rk when the operation prohibition is cancelled by the contact switch.
	SW No.	Dip switch	Operating details
	SW502-6	ON OFF	 OFF: Switch 1* It behaves as described in the "Behavior" section in this chart. Switch 2* When it opens, the ON/OFF operation with the paired remote controller is enabled, and the state of the air conditioner will not change. When it closes, the ON/OFF operation with the paired remote controller is prohibited. ON: Switch 1* It behaves as described in the "Behavior" section in this chart. Switch 2* When it copens, the ON/OFF operation with the paired remote controller is prohibited.
			 When it opens, the ON/OFF operation with the paired remote controller is enabled, and the air conditioner operates.
			· When it closes, the ON/OFF operation with the paired remote controller is prohibited.
	1	r described here occurs when 2-4 is ON, the behaviors when	the SW502-4 is OFF. the switches open and close will come out the opposite.
Specifications of communication	· Cable type a	a: Sheathed cable, size 0.3 mm	1 ² or more
cable	· Cable length	a: Cable size is 0.3 mm ² : 50 r	m or less / Cable size is 0.5 mm²: 100 m or less
Note	Other operat When the int	ions, such as setting the tempe erface is connected to the M-N	ET system, even if Switch 2 prohibits the operation with the paired remote controller,
		operation with the system cont erface is connected to the M-NET	roller is enabled. Γ system, if the system controller prohibits the manual ON/OFF operation, the ON/OFF operation
	with the Swite	ch 1 and 2 is prohibited. To enal oup setting is made with the M-	ble the Switch 1 and 2, do not disable the manual operation prohibition on the system controller. NET system or the MA remote controller, connect Switch 1 and 2 to the interface with the ss. The wireless remote controller cannot be used together.

(6) Details of remote control (for giving priority to operation performed by continuous contact switch)

Function summary	The operation	can be started/stopped or enab	led/disabled according to the operation by continuous contact switches.
System configuration		DNTROL Interface 333IF-E CN591 1 Brown	a • The switches can be used on the following condition: 12 VDC, 0.5 to 2.0 mA Switch 1
		3 Red Orange	Switch 2
Behavior	 Switch 1 When Switch 2 is closed, opening Switch 1 stops the air conditioner. When Switch 2 is closed, closing Switch 1 operates the air conditioner. Switch 2 When it opens, the ON/OFF operation with the paired remote controller and the M-NET system controller is enabled, and the operation from Switch 1 is prohibited. When it closes, the ON/OFF operation with the paired remote controller and the M-NET system controller is prohibited, and the operation from Switch 1 is enabled. * "Paired remote controller" includes the wireless remote controller that comes with the room air conditioner, the MA remote controller, and the ME remote controller. 		
Switch setting		(continuous contact) gs for the continuous contac	ct switches.
	SW No.	Dip switch	Operating details
	SW500	0FF 0FF 0FF	· SW500-6,8: OFF
	SW502	0N 0FF 0FF	· SW502-2: OFF · SW502-3: ON
	 Input change Change the 	ge e input logic.	
	SW No.	Dip switch	Operating details
	SW502-4	OFF	 • OFF: • It behaves as described in the "Behavior" section in this chart. • ON: • Switch 1 • When Switch 2 is open, opening Switch 1 operates the air conditioner. • When Switch 2 is open, closing Switch 1 stops the air conditioner. • Switch 2 • When Switch 2 opens, the ON/OFF operation with the paired remote controller and the M-NET system controller is prohibited, and the operation from Switch 1 is enabled. • When Switch 2 closes, the ON/OFF operation with the paired remote controller and the M-NET system controller is enabled, and the operation from Switch 1 is prohibited.
Specifications of communication		a: Sheathed cable, size 0.3 mn	n² or more m or less / Cable size is 0.5 mm²: 100 m or less
cable			
Note			er prohibited by Switch 2 is the ON/OFF operation only.
	-	tions, such as setting the temp	
			IET system, if Switch 2 prohibits the operation with the paired remote controller,
		operation with the system con terface is connected to the M-N	VET system, even if the system controller prohibits the manual ON/OFF operation,
			vith Switch 2 is prohibited, is prioritized. To enable the Switch 1 and 2, do not disable the
		ration prohibition on the system	
	-		-NET system or the MA remote controller, connect Switch 1 and 2 to the interface with the
	lowest M-NE	ET address or refrigerant addre	ss. The wireless remote controller cannot be used together.

(7) Details of remote control (Operations using instantaneous contact switches: ON/OFF operation, disabling/enabling manual operation)

Function summary	Using instanta	aneous contact switches, oper	ation can be switched between the ON/OFF and disabling/enabling the manual operation.				
System		TROL Interface	_				
configuration	MAC3	33IF-E	a The switches can be used on the following condition:				
		CN591	12 VDC, 0.5 to 2.0 mA				
		Brown	Switch 1				
		2 Red	Switch 2				
		3 Orange					
			12				
Behavior	· Switch 1						
	 Every time 	it closes instantaneously, the	air conditioner repeats ON and OFF operations.				
	* The syster	n control interface will process the la	ast command among those sent by switch 1, the paired remote controller, and the M-NET system controller				
	· Switch 2						
	· Every time	it closes instantaneously, the	ON/OFF operation with the paired remote controller is disabled/enabled.				
	-	-	less remote controller that comes with the room air conditioner, the MA remote controller,				
		remote controller.					
Switch setting	· Settings for	the input mode and the inpu	t change				
Switch Setting			using instantaneous contact switches				
	SW No.	Dip switch	Operating details				
		1 2 3 4 5 6 7 8					
	SW500	ON					
	011000	OFF	· SW500-6,8: OFF				
		0N 0 00 00 00 00 00 00 00 00 00 00 00 00	· SW502-2: ON				
	SW502		· SW502-3.4: OFF				
		╽╴└─┼─┼┻┼┻┼─┼╶┼─┤					
	· Behavior se	tting when the operation is r	rohibited by the contact switches				
			n the operation is prohibited by the contact switch.				
	SW No.	Dip switch	Operating details				
		[]	· OFF:				
			· Switch 1				
			 It behaves as described in the "Behavior" section in this chart. 				
		ON	· Switch 2				
		0N 1 2 3 4 5 6 7 8	 When the ON/OFF operation with the paired remote controller is prohibited, 				
	SW502-5	OFF /	the state of the air conditioner does not change.				
			· Switch 1				
		` OFF	 It behaves as described in the "Behavior" section in this chart. 				
			· Switch 2				
			 When the ON/OFF operation with the paired remote controller is prohibited, 				
		the air conditioner stops.					
	 Behavior setting when the manual operation prohibition is cancelled The air conditioner can be started to work when the operation prohibition is cancelled by the contact switch. 						
	SW No.	Dip switch	Operating details				
			· OFF:				
		1	· Switch 1				
		ON	· It behaves as described in the "Behavior" section in this chart.				
		1 2 3 4 5 6 / 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 				
	SW502-6	0N 1 2 3 4 5 6 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. 				
	SW502-6	1 2 3 4 5 6 / 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. <lu> ON: </lu> 				
	SW502-6	0N 1 2 3 4 5 6 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 				
	SW502-6	ON 7 8 OFF 4 6 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. 				
	SW502-6	ON 7 8 OFF 4 6 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 				
	SW502-6	ON 7 8 OFF 4 6 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. 				
		ON OFF	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. 				
· .		ON 7 8 OFF 4 6 7 8	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. 				
of communication	· Cable type a	ON OFF	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. 				
of communication cable	· Cable type a · Cable length	ON OFF OFF COFF COFF COFF COFF COFF COFF	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. 				
of communication cable	· Cable type a · Cable length · The operation	ON OFF OFF COFF COFF COFF COFF COFF COFF	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. 				
of communication cable	Cable type a Cable length The operation Other operat	a: Sheathed cable, size: 0.3 mm ² : 50 m of the paired remote controlletions, such as setting the temper	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. 				
of communication cable	Cable type a Cable length The operation Other operat Switch 1 and	a: Sheathed cable, size: 0.3 mm ² : 50 m of the paired remote controlle ions, such as setting the temper 2 operate when the input sign	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operates. mor less / Cable size is 0.5 mm²: 100 m or less er prohibited by Switch 2 is the ON/OFF operation only. 				
of communication cable	Cable type a Cable length The operation Other operat Switch 1 and When the inte	a: Sheathed cable, size: 0.3 mm ² : 50 m of the paired remote controlle ions, such as setting the temper 2 operate when the input sign	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operation with the paired remote controller is enabled, the air conditioner operates. n² or more m or less / Cable size is 0.5 mm²: 100 m or less er prohibited by Switch 2 is the ON/OFF operation only. erature, are enabled. al is 200 ms or more. They may not detect the signal of less than 200 ms. ET system, even if Switch 2 prohibits the operation with the paired remote controller, 				
Specifications of communication cable Note	Cable type a Cable length The operation Other operat Switch 1 and When the inte the ON/OFF	a: Sheathed cable, size: 0.3 mr of the paired remote controlle ions, such as setting the tempe 2 operate when the input sign erface is connected to the M-NE operation from the system con	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operation with the paired remote controller is enabled, the air conditioner operates. n² or more m or less / Cable size is 0.5 mm²: 100 m or less er prohibited by Switch 2 is the ON/OFF operation only. erature, are enabled. al is 200 ms or more. They may not detect the signal of less than 200 ms. ET system, even if Switch 2 prohibits the operation with the paired remote controller, 				
of communication cable	Cable type a Cable length The operation Other operat Switch 1 and When the inte the ON/OFF When the inte	a: Sheathed cable, size: 0.3 mr of the paired remote controlle ions, such as setting the temper 2 operate when the input sign erface is connected to the M-NE operation from the system con erface is connected to the M-NE	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operation with the paired remote controller is enabled, the air conditioner operates. n² or more m or less / Cable size is 0.5 mm²: 100 m or less er prohibited by Switch 2 is the ON/OFF operation only. erature, are enabled. al is 200 ms or more. They may not detect the signal of less than 200 ms. ET system, even if Switch 2 prohibits the operation with the paired remote controller, troller is enabled. 				
of communication cable	Cable type a Cable length The operation Other operat Switch 1 and When the inte the ON/OFF When the inte with the Swit When the group	a: Sheathed cable, size: 0.3 mr oFF a: Sheathed cable, size: 0.3 mr a: Cable size is 0.3 mm ² : 50 m of the paired remote controlle ions, such as setting the temper 2 operate when the input sign erface is connected to the M-NE operation from the system con erface is connected to the M-NE ch 1 and 2 is prohibited. To en- oup setting is made with the M-N	 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the state of the air conditioner does not change. ON: Switch 1 It behaves as described in the "Behavior" section in this chart. Switch 2 When the ON/OFF operation with the paired remote controller is enabled, the air conditioner operation with the paired remote controller is enabled, the air conditioner operates. n² or more m or less / Cable size is 0.5 mm²: 100 m or less er prohibited by Switch 2 is the ON/OFF operation only. erature, are enabled. al is 200 ms or more. They may not detect the signal of less than 200 ms. ET system, even if Switch 2 prohibits the operation with the paired remote controller, troller is enabled. I system, if the system controller prohibits the manual ON/OFF operation, the ON/OFF operation 				

(8) Details of remote control (ON/OFF operation with instantaneous contact)

Function summary	Using instantaneous contact switches, the room air conditioner can be turned On and OFF.						
System configuration	SYSTEM CONTROL Interface MAC333IF-E CN591 1 Brown 2 Red 0range	a • The switches can be used on the following condition: 12 VDC, 0.5 to 2.0 mA Switch 1 Switch 2					
Behavior	Switch 1 Every time it closes instantaneously, the air conditioner turns ON. (Unless other controllers are operated, regardless of how often it closes instantaneously, the air conditioner continues to be in operating state.) Switch 2 Every time it closes instantaneously, the air conditioner turns OFF. (Unless other controllers are operated, regardless of how often it closes instantaneously, the air conditioner continues to be in stopped state.) * The system control interface will process the last command among those sent by Switch 1, Switch 2, the paired remote controller, and the M-NET system controller.						
Switch setting	Settings for the input mode and the input change Set the state-fixed operation using instantaneous contact switches.						
	SW No. Dip switch	Operating details					
	SW500 0FF SW500-6,8: OFF						
	SW502 ON OFF 1 2 3 4 5 6 7 8 SW502 OFF Image: Constraint of the second						
Specifications	Cable type of Shoothod apple size 0.2						
of communication cable	Cable type a: Sheathed cable, size 0.3 mm ² or more Cable length a: Cable size is 0.3 mm ² : 50 m or less / Cable size is 0.5 mm ² : 100 m or less						
Note	· The operation with the paired remote co	ontroller is always enabled.					
	Switch 1 and 2 operate when the input signal is 200 ms or more. They may not detect the signal of less than 200 ms.						
	· When the interface is connected to the M-NET system, if the system controller prohibits the manual ON/OFF operation, the ON/OFF						
	operation from the Switch 1 and 2 is prohibited.						
	· When the group setting is made with the M-NET system or the MA remote controller, connect Switch 1 and 2 to the interface with the						
	lowest M-NET address or refrigerant address. The wireless remote controller cannot be used together.						

(9) Details of remote control (HEAT/COOL input)

Function summary	The operation can be switched between ON/OFF and HEAT/COOL according to the last operation performed by continuous contact switches.			
System configuration	MAC	TROL Interface 333IF-E CN591 1 Brown 2 Red 3 Orange	a The switches can be used on the following condition: 12 VDC, 0.5 to 2.0 mA Switch 1 Switch 2	
Behavior	 Switch 1 When it opens, the air conditioner stops. When it closes, the air conditioner operates. The system control interface will process the last command among those sent by switch 1, the paired remote controller, and the M-NET system controller. Switch 2 When it opens, the air conditioner operates in the COOL mode. When it closes, the air conditioner operates in the HEAT mode. The system control interface will process the last command among those sent by switch 2, the paired remote controller, and the M-NET system controller. * The system control interface will process the last command among those sent by switch 2, the paired remote controller, and the M-NET system controller. * "Paired remote controller" includes the wireless remote controller that comes with the room air conditioner, the MA remote controller, and the ME remote controller. 			
Switch setting		(continuous contact) gs for the continuous contac	t switches.	
	SW No.	Dip switch	Operating details	
	SW500	OFF	· SW500-6: ON · SW500-8: OFF	
	SW502	OFF I 2 3 4 5 6 7 8 O FF I I I I I I I I I I	· SW502-2,3,5,6: OFF	
	· Input chang			
	SW No.	pinput logic. Dip switch	Operating details	
	SW502-4	ON 0FF	OFF: OFF: It behaves as described in the "Behavior" section in this chart. ON: Switch 1 When it opens, the air conditioner operates. When it closes, the air conditioner stops. Switch 2 When it opens, the air conditioner operates in the HEAT mode. When it closes, the air conditioner operates in the COOL mode. 	
Specifications of communication cable		type a: Sheathed cable, size 0.3 mm ² or more length a: Cable size is 0.3 mm ² : 50 m or less / Cable size is 0.5 mm ² : 100 m or less		
Note	the ON/OFF · When the in the HEAT/C · When the g	hen the interface is connected to the M-NET system, if the system controller prohibits the manual ON/OFF operation, e ON/OFF operation from the Switch 1 is prohibited. hen the interface is connected to the M-NET system, if the system controller prohibits the manual mode operation, e HEAT/COOL operation from Switch 2 is prohibited. hen the group setting is made with the M-NET system or the MA remote controller, connect Switch 1 and 2 to the interface th the lowest M-NET address or refrigerant address. The wireless remote controller cannot be used together.		

5.4 STATUS SIGNAL OUTPUT

(1) Relay outputs of ON/OFF operation signal and normal/abnormal signal



(2) LED indications of ON/OFF operation signal and normal/abnormal signal

Function summary	ON/OFF signal and normal/abnormal signal of the room air conditioner can be indicated using LED.		
System configuration	SYSTEM CONTROL interface MAC333IF-E a		
	+ C - F - F - F - F - F - F - F - F	DC power source 12 V	Resistance 1 LED 1 Resistance 2 LED 2 LED 1, 2 : Select LED which illuminates around 10 mA. Resistance 1, 2 : 1.2 kΩ, 1/4 W C power source 2 VDC (+10 %, -0 %), 5 W or more e is required for the status output.
Behavior	· LED 1	·	
	 LED 1 is illuminated when the air conditioner is on. LED 1 turns off when the air conditioner is off. LED 2 LED 2 is illuminated when the air conditioner operates abnormally. LED 2 turns off when the air conditioner operates normally. 		
Switch setting	· Output setting		
			F and normal/abnormal.
	SW No. Dip	switch	Operating details
	SW500 OFF		
	Output change Change the output logic		۱۲
	SW No. Dip	switch	Operating details
	SW502-1	4 5 6 7 8	 • OFF: • It behaves as described in the "Behavior" section in this chart. • ON: • LED 1 • LED 1 • LED 1 turns off when the air conditioner is on. • LED 1 is illuminated when the air conditioner is off. • LED 2 • LED 2 turns off when the air conditioner operates abnormally. • LED 2 is illuminated when the air conditioner operates normally.
Specifications of communication cable	 Cable type a: Sheathed cable (Stranded cable), size 0.3 mm² to 1.25 mm² / Sheathed cable (Solid cable), ø0.4 mm to ø1.2 mm b: Use the cable specified for the external power source. Its size must be from 0.3 mm² to 1.25 mm². Cable length a: Cable size is 0.3 mm²: 50 m or less / Cable size is 0.5 mm²: 100 m or less b: Follow the requirement for the external power source. 		
Note	External power source is required for the status output. TB530 and TB571 have polarities, so check them before connection. Do not connect DC power source to TB571.		

(3) Relay outputs of ON/OFF operation signal and heater control signal

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(4) Relay outputs of ON/OFF signal and humidifier control signal

Function summary	ON/OFF signal of the room air conditioner and humidifier control (ON/OFF) signal can be output to the relay.			
System configuration	SYSTEM CONTROL interface MAC333IF-E	а		
	Relay 1, 2 Coil rating: 12 VDC, 75 mA or less TB530 + C R1 - R2 - R2			
Behavior	 • Relay 1 • Relay 1 is ON when the air conditioner is on. • Relay 1 is OFF when the air conditioner is off. • Relay 2 • Relay 2 is ON when the conditions to operate the external humidifier are satisfied. (Conditions to operate the humidifier: The air conditioner is operating in the heating or the automatic heating mode.) • Relay 2 is OFF when the conditions to stop the external humidifier are satisfied. (Conditions to operate the humidifier: The air conditioner is not operating or it is operating in a mode other than the heating or the automatic heating mode.) 			
Switch setting	Output setting Make settings for outputs of ON/OFF a	and external humidifier		
	SW No. Dip switch	Operating details		
	SW500 0F 0	· SW500-5: ON · SW500-4,8: OFF		
	 Output change Change the output logic. 			
	SW No. Dip switch	Operating details		
	SW502	 • OFF: It behaves as described in the "Behavior" section in this chart. • ON: • Relay 1 • Relay 1 is OFF when the air conditioner is on. • Relay 1 is ON when the air conditioner is off. • Relay 2 • Relay 2 is OFF when the conditions to operate the external humidifier are satisfied. • Relay 2 is ON when the conditions to stop the external humidifier are satisfied. 		
Specifications of communication cable	 Cable type a: Sheathed cable (Stranded cable), size 0.3 mm² to 1.25 mm² / Sheathed cable (Solid cable), size ø0.4 mm to ø1.2 mm b: Use the cable specified for the external power source. Its size must be from 0.3 mm² to 1.25 mm². Cable length a: Cable size is 0.3 mm²: 50 m or less / Cable size is 0.5 mm²: 100 m or less b: Follow the requirement for the external power source. 			
Note	· b: Follow the requirement for the external power source. · External power source is required for the status output. · TB530 and TB571 have polarities, so check them before connection. · Do not connect DC power source to TB571. · When a relay with a built-in diode is used, take care to choose the correct polarity. TB571 C: + potential TB571 R1 and R2: - potential			

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(5) Relay outputs of heater control signal and humidifier control signal



5.5 ON/OFF CONTROL BY MAIN POWER SOURCE



6 IMPORTANT NOTE

(1) Difference between display and operation

This Interface unit operates M-series air conditioner using the controls of City multi-series or P-series air conditioner, but there are several limitations as a result of the functional differences between M-series and City multi-series/P-series.

- ①When operating the system using the system controller, the MA remote controller, or the ME remote controller, details of those operations will not appear on the display of the wireless remote controller.
- ②The temperature range of the room air conditioner is broader than that on the system controller, the MA remote controller, or the ME remote controller. When the room air conditioners is set to lower than 17 °C (63 °F) or higher than 30 °C (87 °F), the temperature display on the the system controller, the MA remote controller, or the ME remote controller will show the minimum or maximum temperature that can be set. (For example, even if the room air conditioner is set to cool a room to 16 °C (61 °F), the display on the system controller, MA remote controller, or the ME remote controller, or the ME remote controller may read "17 °C (63 °F)".)
- ③When the DRY mode is set with the wireless remote controller, the room air conditioner automatically set the optimum target temperature. The MA remote controller, the ME remote controller, or the system controller will display the target temperature as a set temperature.
- (4) When the DRY mode is set with the MA remote controller, the ME remote controller, or the system controller, the room air conditioner performs the DRY mode control operation according to the temperature set with the MA remote controller, the ME remote controller, or the system controller.
- ⑤Indoor temperature display may be slightly different between the room air conditioner, the MA remote controller, the ME remote controller, and the system controller because of the differences in the timing of update process and in processing method of the indoor temperature information.

(2) Timer operation

- ①Timer operation should be set using only one controller from the remote controller that comes with the room air conditioner, the system controller, the MA remote controller, or the ME remote controller. If more than one controller is used to set the timer at the same time, the timer will not function properly.
- ②When the timer is set with the wireless remote controller; the MA remote controller, the ME remote controller, or the system controller will not show the timer display.
- ③The timer set with the MA remote controller, the ME remote controller, or the system controller will not be cancelled with the wireless remote controller.

(3) Manual operation prohibition

When the manual operation (ON/OFF, set temperature, or operation mode) is prohibited with the system controller, the command to perform the prohibited operation will not be accepted from the wireless remote controller that comes with the room air conditioner. The operation partially enabled by the system controller can be operated with the wireless remote controller. Regardless of whether the operation is disabled or enabled, three short beeps will sound when the signal is sent from the wireless remote controller.

(4) Trouble

- ①If the MA remote controller, the ME remote controller, or the system controller shows the abnormal indication, clear it by stopping the operation with one of the followings: the MA remote controller, the ME remote controller, the system controller, or the wireless remote controller.
 - (Abnormal indication of the air conditioner could be recovered automatically, but that of the MA remote controller, the ME remote controller, or the system controller cannot be recovered unless the operation is stopped.)
- ②If the main power to the power supply unit for M-NET system is lost because of construction work or the like, the air conditioner connected to the interface will not stop but continue the operation.

(5) Group operation

- When several air conditioners are set in the same group using the M-NET system controller, the wireless remote controller cannot be used. To use the wireless remote controller, do not make the group setting. (The signal from the wireless remote controller will not be transmitted to the other air conditioners, so the group operation will not be performed.)
- ②When several air conditioners are set in the same group using the M-NET system controller, and the MA remote controller is used together; setting for the group operation on the MA remote controller is also necessary.
- ③When several air conditioners are set in the same group using the M-NET system controller, P-series and City multi-series can not be included in the group.
- (4)MAC-399IF-E and MAC-333IF-E can be set in the same group using the M-NET system controller, but the MA remote controller and the wireless remote controller cannot be used on MAC-333IF-E.

MEMO



SYSTEM CONTROL INTERFACE Model MAC-333IF-E **TECHNICAL MANUAL**



New publication effective Sep. 2012 Specifications are subject to change without notice.