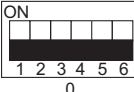
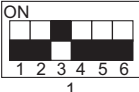
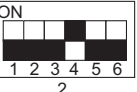
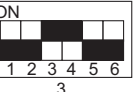
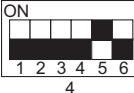
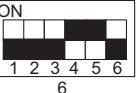
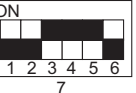
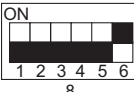
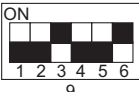
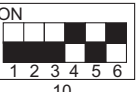
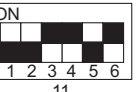
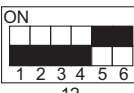
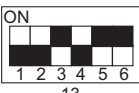
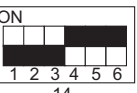
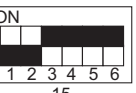


10-10. FUNCTION OF SWITCHES, CONNECTORS AND JUMPERS

(1) Function of switches

Type of switch	Switch	No.	Function	Action by the switch operation		Effective timing		
				ON	OFF			
Dip switch	SW1	1	Forced defrost ※1	Start	Normal	When compressor is working in heating operation. ※1		
		2	Abnormal history clear	Clear	Normal	Off or operating		
		3	Refrigerant address setting					When power supply ON
		4						
		5						
		6						
		12	13	14	15			
	SW4	1	Test run	Operating	OFF	Under suspension		
		2	Test run mode setting	Heating	Cooling			
	SW8	1	No function	—	—	—		
		2	No function	—	—	—		
		3	Separate indoor/outdoor unit power supplies	Used	Not used	When power supply ON		
Push switch	SWP		Pump down	Start	Normal	Under suspension		

※1 Forced defrost should be done as follows.

①Change the DIP SW1-1 on the outdoor controller board from OFF to ON.

②Forced defrost will start by the above operation 1 if all these conditions written below are satisfied.

- Heat mode setting
- 10 minutes have passed since compressor started operating or previous forced defrost finished.
- Pipe temperature is less than or equal to 8°C[46°F].

Forced defrost will finish if certain conditions are satisfied.

Forced defrost can be done if above conditions are satisfied when DIP SW1-1 is changed from OFF to ON.

After DIP SW1-1 is changed from OFF to ON, there is no problem if DIP SW1-1 is left ON or changed to OFF again. This depends on the service conditions.

Type of Switch	Switch	No.	Function	Action by the switch operation		Effective timing																																																																						
				ON	OFF																																																																							
Dip switch	SW5	1	No function	—	—	—																																																																						
		2	Power failure automatic recovery ※2	Auto recovery	No auto recovery	When power supply ON																																																																						
		3,4,5	No function	—	—	—																																																																						
		6	Model select	Following SW5-6 reference																																																																								
	SW7 ※4	1	Setting of demand control ※3	SW7-1	SW7-2	Power consumption (Demand switch ON)	Always																																																																					
		2		OFF	OFF	0% (Operation stop)																																																																						
		ON		OFF	50%																																																																							
		OFF		ON	75%																																																																							
		3	Max. Hz setting(cooling)	Max. Hz(cooling) × 0.8		Normal	Always																																																																					
		4	Max. Hz setting(heating)	Max. Hz(heating) × 0.8		Normal	Always																																																																					
	SW9	5	No function	—	—	—																																																																						
		6	Defrost setting	For high humidity		Normal	Always																																																																					
		1	No function	—	—	—																																																																						
	SW6	2	Function switch	Valid		Normal	Always																																																																					
		3,4	No function	—	—	—																																																																						
		1	Model select	<table><tr><td>MODEL</td><td colspan="2">SW6</td><td colspan="2">SW5-5.6</td><td>MODEL</td><td colspan="2">SW6</td><td colspan="2">SW5-5.6</td></tr><tr><td>PUZ-A18N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td><td>PUZ-A30N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td></tr><tr><td>PUY-A12N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td><td>PUZ-A36N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td></tr><tr><td>PUY-A18N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td><td>PUY-A30N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td></tr><tr><td>PUZ-A24N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td><td>PUY-A36N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td></tr><tr><td>PUY-A24N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td><td>PUZ-A42N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>PUY-A42N</td><td>ON OFF</td><td></td><td>ON OFF</td><td></td></tr></table>				MODEL	SW6		SW5-5.6		MODEL	SW6		SW5-5.6		PUZ-A18N	ON OFF		ON OFF		PUZ-A30N	ON OFF		ON OFF		PUY-A12N	ON OFF		ON OFF		PUZ-A36N	ON OFF		ON OFF		PUY-A18N	ON OFF		ON OFF		PUY-A30N	ON OFF		ON OFF		PUZ-A24N	ON OFF		ON OFF		PUY-A36N	ON OFF		ON OFF		PUY-A24N	ON OFF		ON OFF		PUZ-A42N	ON OFF		ON OFF							PUY-A42N	ON OFF		ON OFF
MODEL		SW6		SW5-5.6		MODEL	SW6		SW5-5.6																																																																			
PUZ-A18N		ON OFF			ON OFF		PUZ-A30N	ON OFF		ON OFF																																																																		
PUY-A12N		ON OFF			ON OFF		PUZ-A36N	ON OFF		ON OFF																																																																		
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SW5	6																																																																											

※2 Power failure automatic recovery can be set by either remote controller or this DIP SW. If one of them is set to ON, Auto recovery activates. Please set Auto recovery basically by remote controller because all units do not have DIP SW.

Please refer to the indoor unit installation manual.

※3 SW7-1,2 are used for demand control. SW7-1,2 are effective only at the demand control.

(Refer to next page : Special function (b))

※4 Please do not use SW7-3~6 usually. Trouble might be caused by the usage condition.

(2)Function of connector

Types	Connector	Function	Action by open/ short operation		Effective timing
			Short	Open	
Connector	CN31	Emergency operation	Start	Normal	When power supply ON

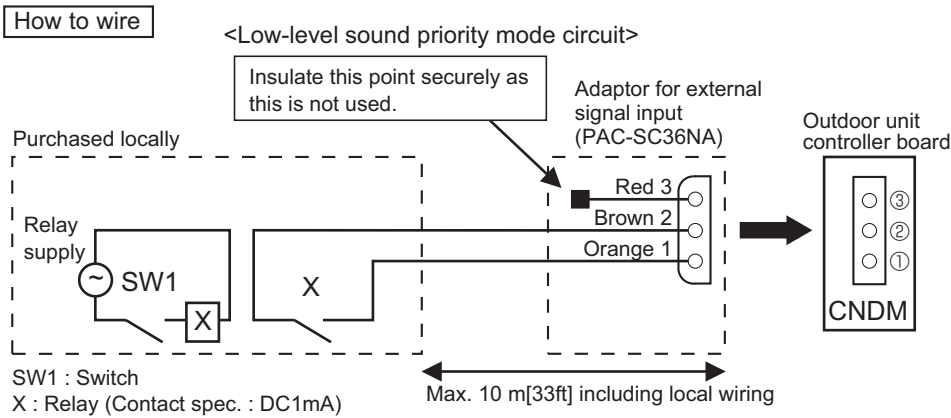
Special function

(a) Low-level sound priority mode (Local wiring)

Unit enters into Low-level sound priority mode by external signal input setting.

Inputting external signals to the outdoor unit decreases the outdoor unit operation sound 3 to 4 dB lower than that of usual. Adding a commercial timer or on-off switch contactor setting to the CNDM connector which is optional contactor for demand input located on the outdoor controller board enables to control compressor operation frequency.

※ The performance depends on the load of conditioned outdoor temperature.



1) Make the circuit as shown above with Adaptor for external signal input(PAC-SC36NA).

2) Turn SW1 to on for Low-level sound priority mode.

Turn SW1 to off to release Low-level sound priority mode and normal operation.

(b) Demand control (Local wiring)

Demand control is available by external input. In this mode, power consumption is decreased within the range of usual 0~100%.

How to wire

Basically, the wiring is the same as (a).

Connect an SW 1 which is procured at field to the between Orange and Red(1 and 3) of the Adaptor for external signal input(PAC-SC36NA), and insulate the tip of the brown lead wire.

It is possible to set it to the following power consumption (compared with ratings) by setting the SW7-1, 2.

SW7-1	SW7-2	Power consumption (SW1 on)
OFF	OFF	0% (Operation stop)
ON	OFF	50%
OFF	ON	75%

<Display function of inspection for outdoor unit>

The blinking patterns of both LED1(green) and LED2(red) indicate the types of abnormality when it occurs. Types of abnormality can be indicated in details by connecting an optional part 'A-Control Service Tool (PAC-SK52ST)' to connector CNM on outdoor controller board.

[Display]

(1)Normal condition

Unit condition	Outdoor controller board		A-Control Service Tool	
	LED1 (Green)	LED2 (Red)	Error code	Indication of the display
When the power is turned on	Lighted	Lighted	— ⇔ —	Alternately blinking display
When unit stops	Lighted	Not lighted	00, etc.	Operation mode
When compressor is warming up	Lighted	Not lighted	08, etc.	
When unit operates	Lighted	Lighted	C5, H7 etc.	

(2)Abnormal condition

Indication		Error			
Outdoor controller board		Contents	Error code ※1	Inspection method	Detailed reference page
LED1 (Green)	LED2 (Red)				
1 blinking	2 blinking	Connector(63L) is open.	F3	①Check if connector (63L or 63H) on the outdoor controller board is not disconnected.	P.35
		Connector(63H) is open.	F5		P.36
		2 connectors are open.	F9	②Check continuity of pressure switch (63L or 63H) by tester.	P.36
2 blinking	1 blinking	Miswiring of indoor/outdoor unit connecting wire, excessive number of indoor units (4 units or more)	—	①Check if indoor/outdoor connecting wire is connected correctly.	P.36
		Miswiring of indoor/outdoor unit connecting wire (converse wiring or disconnection)	—	②Check if 4 or more indoor units are connected to outdoor unit.	(EA)
				③Check if noise entered into indoor/outdoor connecting wire or power supply.	P.36
				④Re-check error by turning off power, and on again.	(Eb)
	2 blinking	Indoor/outdoor unit communication error (signal receiving error) is detected by indoor unit.	E6	①Check if indoor/outdoor connecting wire is connected correctly. ②Check if noise entered into indoor/outdoor connecting wire or power supply. ③Check if noise entered into indoor/outdoor controller board. ④Re-check error by turning off power, and on again.	P.36
		Indoor/outdoor unit communication error (transmitting error) is detected by indoor unit.	E7		(EC)
		Indoor/outdoor unit communication error (signal receiving error) is detected by outdoor unit.	—		※2
		Indoor/outdoor unit communication error (transmitting error) is detected by outdoor unit.	—		※2
	3 blinking	Remote controller signal receiving error is detected by remote controller.	E0	①Check if connecting wire of indoor unit or remote controller is connected correctly. ②Check if noise entered into transmission wire of remote controller. ③Re-check error by turning off power, and on again.	P.41
		Remote controller transmitting error is detected by remote controller.	E3		P.41
		Remote controller signal receiving error is detected by indoor unit.	E4		P.41
		Remote controller transmitting error is detected by indoor unit.	E5		P.41
	4 blinking	Error code is not defined.	EF	①Check if remote controller is MA remote controller(PAR-21MAA). ②Check if noise entered into transmission wire of remote controller. ③Check if noise entered into indoor/outdoor connecting wire. ④Re-check error by turning off power, and on again.	P.41
	5 blinking	Serial communication error <Communication between outdoor controller board and outdoor power board> <Communication between outdoor controller board and M-NET P.C. board>	Ed	①Check if connector (CN4) on outdoor controller board and outdoor power board is not disconnected. ②Check if there is poor connection of connector on outdoor controller board(CNMNT and CNVMNT). ③Check M-NET communication signal.	P.41
		Communication error of M-NET system	A0-A8		P.42~ P.45

※1.Error code displayed on remote controller

※2.Refer to service manual for indoor unit.

Indication		Error			
Outdoor controller board		Contents	Error code ※1	Inspection method	Detailed reference page
LED1 (Green)	LED2 (Red)				
3 blinking	1 blinking	Abnormality of shell thermostat and discharging temperature (TH4)	U2	①Check if stop valves are open. ②Check if connectors (TH4, LEV-A) on outdoor controller board are not disconnected. ③Check if unit is filled with specified amount of refrigerant. ④Measure resistance values among terminals on indoor valve and outdoor linear expansion valve using a tester.	P.37
	2 blinking	Abnormal high pressure (High pressure switch 63H worked.)	U1	①Check if indoor/outdoor units have a short cycle on their air ducts. ②Check if connector (63H) on outdoor controller board is not disconnected. ③Check if heat exchanger and filter is not dirty. ④Measure resistance values among terminals on linear expansion valve using a tester.	P.37
	3 blinking	Abnormality of outdoor fan motor rotational speed	U8	①Check the outdoor fan motor.	P.39
	4 blinking	Compressor overcurrent breaking (Start-up locked)	UF	①Check if stop valves are open.	P.39
		Compressor overcurrent breaking	UP	②Check looseness, disconnection, and converse connection of compressor wiring.	P.40
		Abnormality of current sensor (P.B.)	UH	③Measure resistance values among terminals on compressor using a tester.	P.39
		Abnormality of power module	U6	④Check if outdoor unit has a short cycle on its air duct.	P.38
	5 blinking	Open/short of discharge thermistor (TH4)	U3	①Check if connectors (TH3, TH4, TH6 and TH7) on outdoor controller board and connector (CN3) on outdoor power board are not disconnected. ②Measure resistance value of outdoor thermistors.	P.38
		Open/short of outdoor thermistors (TH3, TH6, TH7 and TH8)	U4		P.38
	6 blinking	Abnormality of heatsink temperature	U5	①Check if indoor/outdoor units have a short cycle on their air ducts. ②Measure resistance value of outdoor thermistor(TH8).	P.38
4 blinking	1 blinking	Abnormality of room temperature thermistor (TH1)	P1	①Check if connectors (CN20, CN21, CN29, and CN44) on indoor controller board are not disconnected. ②Measure resistance value of indoor thermistors.	※2
		Abnormality of pipe temperature thermistor/Liquid (TH2)	P2		※2
		Abnormality of pipe temperature thermistor/Condenser-Evaporator(TH5)	P9		※2
	2 blinking	Abnormality of drain sensor (DS)	P4	①Check if connector (CN31)(CN4F) on indoor controller board is not disconnected. ②Measure resistance value of indoor thermistors. ③Measure resistance value among terminals on drain-up machine using a tester. ④Check if drain-up machine works. ⑤Check drain function.	※2
		Float switch connector open(FS)	P5		
	3 blinking	Indoor drain overflow protection	P5		
		Freezing (cooling)/overheating (heating) protection	P6	①Check if indoor unit has a short cycle on its air duct. ②Check if heat exchanger and filter is not dirty. ③Measure resistance value on indoor and outdoor fan motors. ④Check if the inside of refrigerant piping is not clogged.	※2
	4 blinking	Abnormality of pipe temperature	P8	①Check if indoor thermistors (TH2 and TH5) are not disconnected from holder. ②Check if stop valve is open. ③Check converse connection of extension pipe. (on plural units connection) ④Check if indoor/outdoor connecting wire is connected correctly. (on plural units connection)	※2
—	5 blinking	Abnormality of indoor controller board	Fb	①Replace indoor controller board.	※2
	—	Abnormality of remote controller board	E1 E2	①Replace remote controller.	P.40

※1 Error code displayed on remote controller

※2 Refer to service manual for indoor unit.

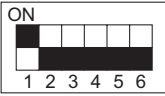
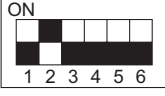
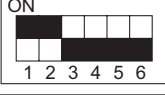
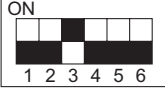
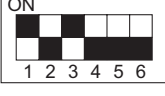
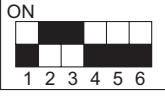
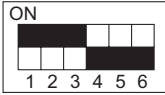
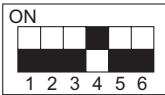
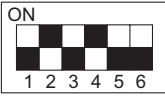
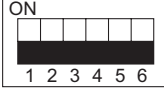
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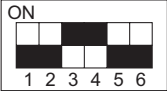
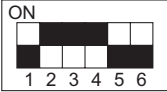
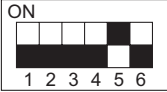
[When option part 'A-Control Service Tool(PAC-SK52ST)' is connected to outdoor controller board(CNM)]

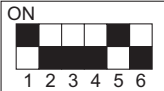
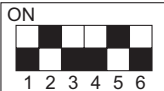
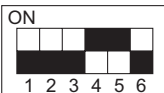
Digital indicator LED1 displays 2 digit number or code to inform operation condition and the meaning of error code by controlling DIP SW2 on 'A-Control Service Tool'.

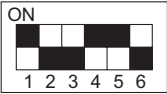
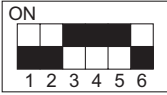
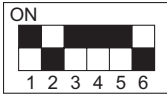
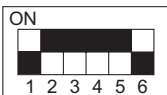
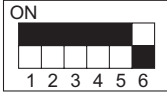
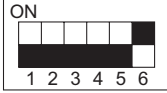
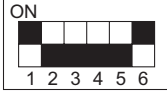
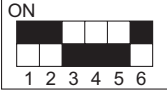
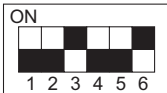
Operation indicator SW2 : Indicator change of self diagnosis

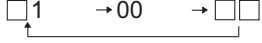
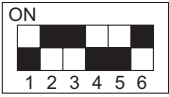
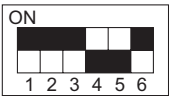
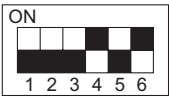
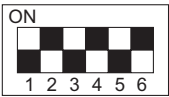
SW2 setting	Display detail	Explanation for display	Unit																																																																	
ON 1 2 3 4 5 6																																																																				
<Digital indicator LED1 working details> (Be sure that 1 to 6 in the SW2 are set to OFF.) (1) Display when the power supply ON. When the power supply ON, blinking displays by turns. Wait for 4 minutes at the longest. (2) When the display lights. (Normal operation) ① Operation mode display																																																																				
	1 second interval																																																																			
LED1 (Lighting)	SW2 ON 1 2 3 4 5 6 (Initial setting)																																																																			
The tens digit : Operation mode The ones digit : Relay output																																																																				
<table><tr><th>Display</th><th>Operation Model</th></tr><tr><td>O</td><td>OFF / FAN</td></tr><tr><td>C</td><td>COOLING / DRY ※</td></tr><tr><td>H</td><td>HEATING</td></tr><tr><td>d</td><td>DEFROSTING</td></tr></table>	Display	Operation Model	O	OFF / FAN	C	COOLING / DRY ※	H	HEATING	d	DEFROSTING	<table><tr><th>Display</th><th>Warming-up Compressor</th><th>Compressor</th><th>4-way valve</th><th>Solenoid valve</th></tr><tr><td>0</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1</td><td>—</td><td>—</td><td>—</td><td>ON</td></tr><tr><td>2</td><td>—</td><td>—</td><td>ON</td><td>—</td></tr><tr><td>3</td><td>—</td><td>—</td><td>ON</td><td>ON</td></tr><tr><td>4</td><td>—</td><td>ON</td><td>—</td><td>—</td></tr><tr><td>5</td><td>—</td><td>ON</td><td>—</td><td>ON</td></tr><tr><td>6</td><td>—</td><td>ON</td><td>ON</td><td>—</td></tr><tr><td>7</td><td>—</td><td>ON</td><td>ON</td><td>ON</td></tr><tr><td>8</td><td>ON</td><td>—</td><td>—</td><td>—</td></tr><tr><td>A</td><td>ON</td><td>—</td><td>ON</td><td>—</td></tr></table>	Display	Warming-up Compressor	Compressor	4-way valve	Solenoid valve	0	—	—	—	—	1	—	—	—	ON	2	—	—	ON	—	3	—	—	ON	ON	4	—	ON	—	—	5	—	ON	—	ON	6	—	ON	ON	—	7	—	ON	ON	ON	8	ON	—	—	—	A	ON	—	ON	—		
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② Display during error postponement Postponement code is displayed when compressor stops due to the work of protection device. Postponement code is displayed while error is being postponed.																																																																				
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	<table><tr><th>Display</th><th>Contents to be inspected (During operation)</th></tr><tr><td>U1</td><td>Abnormal high pressure (63H worked)</td></tr><tr><td>U2</td><td>Abnormal high discharging temperature, shortage of refrigerant</td></tr><tr><td>U3</td><td>Open/short circuit of discharge thermistor (TH4)</td></tr><tr><td>U4</td><td>Open/short of outdoor unit thermistors (TH3, TH6, TH7 and TH8)</td></tr><tr><td>U5</td><td>Abnormal temperature of heatsink</td></tr><tr><td>U6</td><td>Abnormality of power module</td></tr><tr><td>U8</td><td>Abnormality in outdoor fan motor.</td></tr><tr><td>UF</td><td>Compressor overcurrent interruption (When Comp. locked)</td></tr><tr><td>UH</td><td>Current sensor error</td></tr><tr><td>UL</td><td>Abnormal low pressure (63L worked)</td></tr><tr><td>UP</td><td>Compressor overcurrent interruption</td></tr><tr><td>P1~P8</td><td>Abnormality of indoor units</td></tr><tr><td>A0~A7</td><td>Communication error of M-NET system</td></tr></table>	Display	Contents to be inspected (During operation)	U1	Abnormal high pressure (63H worked)	U2	Abnormal high discharging temperature, shortage of refrigerant	U3	Open/short circuit of discharge thermistor (TH4)	U4	Open/short of outdoor unit thermistors (TH3, TH6, TH7 and TH8)	U5	Abnormal temperature of heatsink	U6	Abnormality of power module	U8	Abnormality in outdoor fan motor.	UF	Compressor overcurrent interruption (When Comp. locked)	UH	Current sensor error	UL	Abnormal low pressure (63L worked)	UP	Compressor overcurrent interruption	P1~P8	Abnormality of indoor units	A0~A7	Communication error of M-NET system																																							
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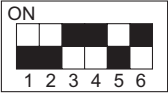
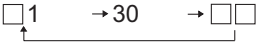
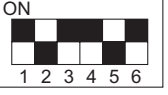
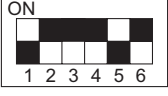
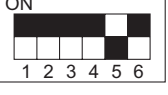
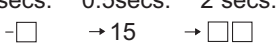
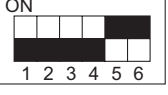
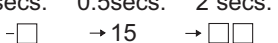
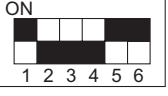
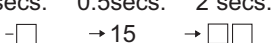
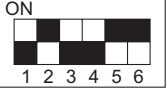
SW2 setting	Display detail	Explanation for display	Unit
	Pipe temperature / Liquid (TH3) – 40~194	– 40~194 (– 40~90°C) (When the coil thermistor detects 0°F or below, “–” and temperature are displayed by turns.) (Example) When -10°F; 0.5 secs. 0.5secs. 2 secs. –□ → 10 → □□	°F
	Discharge temperature (TH4) 37~327	37~327 (3~164°C) (When the discharge thermistor detects 100°F or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 105°F; 0.5 secs. 0.5secs. 2 secs. □1 → 05 → □□	°F
	Output step of outdoor FAN 0~10	0~10	Step
	The number of ON / OFF times of compressor 0~9999	0~9999 (When the number of times is 100 or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 42500 times (425 X100 times); 0.5 secs. 0.5secs. 2 secs. □4 → 25 → □□	100 times
	Compressor integrating operation times 0~9999	0~9999 (When it is 100 hours or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 2450 hours (245 X10 hours); 0.5 secs. 0.5secs. 2 secs. □2 → 45 → □□	10 hours
	Compressor operating current 0~50	0~50 *Omit the figures after the decimal fractions.	A
	Compressor operating frequency 0~255	0~255 (When it is 100Hz or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 125Hz; 0.5 secs. 0.5secs. 2 secs. □1 → 25 → □□	Hz
	LEV-A opening pulse 0~480	0~480 (When it is 100 pulse or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 150 pulse; 0.5 secs. 0.5secs. 2 secs. □1 → 50 → □□	Pulse
	Error postponement code history (1) of outdoor unit	Postponement code display Blinking: During postponement Lighting: Cancellation of postponement “00” is displayed in case of no postponement.	Code display
	Operation mode on error occurring	Operation mode of when operation stops due to error is displayed by setting SW2 like below. (SW2) 	Code display

SW2 setting	Display detail	Explanation for display	Unit
	Pipe temperature / Liquid (TH3) on error occurring – 40~194	– 40~194 (– 40~90°C) (When the coil thermistor detects 0°F or below, “–” and temperature are displayed by turns.) (Example) When –15°F; 0.5 secs. 0.5secs. 2 secs. –□ → 15 → □□	°F
	Compressor temperature (TH4) or discharge temperature (TH4) on error occurring 37~327	37~327 (3~164°C) (When the temperature is 100°F or more, the hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 130°F; 0.5 secs. 0.5secs. 2 secs. □1 → 30 → □□	°F
	Compressor operating current on error occurring 0~20	0~20	A
	Error code history (1) (latest) Alternate display of abnormal unit number and code	When no error history, “0” and “–” are displayed by turns.	Code display
	Error code history (2) Alternate display of error unit number and code	When no error history, “0” and “–” are displayed by turns.	Code display
	Thermostat ON time 0~999	0~999 (When it is 100 minutes or more, the hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 245 minutes; 0.5 secs. 0.5secs. 2 secs. □2 → 45 → □□	Minute
	Test run elapsed time 0~120	0~120 (When it is 100 minutes or more, the hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 105 minutes; 0.5 secs. 0.5secs. 2 secs. □1 → 05 → □□	Minute

SW2 setting	Display detail	Explanation for display	Unit																
	The number of connected indoor units	0~3 (The number of connected indoor units are displayed.)	Unit																
	Capacity setting display	Displayed as an outdoor capacity code <table><tr><th>Capacity</th><th>Code</th><th>Capacity</th><th>Code</th></tr><tr><td>A12N</td><td>9</td><td>A30N</td><td>14</td></tr><tr><td>A18N</td><td>10</td><td>A36N</td><td>20</td></tr><tr><td>A24N</td><td>11</td><td>A42N</td><td>25</td></tr></table>	Capacity	Code	Capacity	Code	A12N	9	A30N	14	A18N	10	A36N	20	A24N	11	A42N	25	Code display
Capacity	Code	Capacity	Code																
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	Outdoor unit setting information	- The tens digit (Total display for applied setting)<table><tr><th>Setting details</th><th>Display details</th></tr><tr><td>H·P / Cooling only</td><td>0 : H·P 1 : Cooling only</td></tr><tr><td>Single phase / 3 phase</td><td>0 : Single phase 2 : 3 phase</td></tr></table> - The ones digit<table><tr><th>Setting details</th><th>Display details</th></tr><tr><td>Defrosting switch</td><td>0 : Normal 1 : For high humidity</td></tr></table> (Example) When heat pump, 3 phase and defrosting (normal) are set up, “20” is displayed.	Setting details	Display details	H·P / Cooling only	0 : H·P 1 : Cooling only	Single phase / 3 phase	0 : Single phase 2 : 3 phase	Setting details	Display details	Defrosting switch	0 : Normal 1 : For high humidity	Code display						
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Setting details	Display details																		
Defrosting switch	0 : Normal 1 : For high humidity																		
	Indoor pipe temperature / Liquid (TH2(1)) Indoor 1 – 38~190	– 38~190 (– 39~88℃) (When the temperature is 0°F or less, “–” and temperature are displayed by turns.)	°F																
	Indoor pipe temperature / Cond. / Eva. (TH5(1)) Indoor 1 – 38~190	– 38~190 (– 39~88℃) (When the temperature is 0°F or less, “–” and temperature are displayed by turns.)	°F																
	Indoor pipe temperature / Liquid (TH2(2)) Indoor 2 – 38~190	– 38~190 (– 39~88℃) (When the temperature is 0°F or less, “–” and temperature are displayed by turns.)	°F																
	Indoor pipe temperature / Cond. / Eva. (TH5(2)) Indoor 2 – 38~190	– 38~190 (– 39~88℃) (When the temperature is 0°F or less, “–” and temperature are displayed by turns.)	°F																
	Indoor room temperature (TH1) 46~102	46~102 (8~39℃)	°F																

SW2 setting	Display detail	Explanation for display	Unit
	Indoor setting temperature 62~86	62~86 (17~30°C)	°F
	Outdoor pipe temperature / Cond./ Eva. (TH6) -38~190	-38~190 (-39~88°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.)	°F
	Outdoor outside temperature (TH7) -38~190	-38~190 (-39~88°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.)	°F
	Outdoor heatsink temperature (TH8) -40~327	-40~327 (-40~164°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.) (When the thermistor detects 100°F or more, hundreds digit, tens digit and ones digit are displayed by turns.)	°F
	Discharge superheat. SHd 0~327 [Cooling = TH4-TH6] [Heating = TH4-TH5]	0~327 (0~182degC) (When the temperature is 100degF or more, hun- dreds digit, tens digit and ones digit are displayed by turns.)	degF
	Sub cool. SC 0~234 [Cooling = TH6-TH3] [Heating = TH5-TH4]	0~234 (0~130degC) (When the temperature is 100°F or more, hundreds digit, tens digit and ones digit are displayed by turns.)	degF
	Input current of outdoor unit	0~500 (When it is 100 or more, hundreds digit, tens digit and ones digit are displayed by turns.)	0.1 A
	Targeted operation frequency 0~255	0~255 (When it is 100Hz or more, hundreds digit, tens digit and ones digit are displayed by turns.)	Hz
	DC bus voltage 180~370	180~370 (When it is 100V or more, hundreds digit, tens digit and ones digit are displayed by turns.)	V

SW2 setting	Display detail	Explanation for display	Unit
	Capacity save 0~100 When air conditioner is connected to M-NET and capacity save mode is demanded, "0"~"100" is displayed. [When there is no setting of capacity save "100" is displayed.]	0~100 (When the capacity is 100%, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 100%; 0.5 secs. 0.5secs. 2 secs. 	%
	Error postponement code history (2) of outdoor unit	Postponement code display Blinking: During postponement Lighting: Cancellation of postponement "00" is displayed in case of no postponement.	Code display
	Error postponement code history (3) of outdoor unit	Postponement code display Blinking: During postponement Lighting: Cancellation of postponement "00" is displayed in case of no postponement.	Code display
	Error code history (3) (Oldest) Alternate display of abnormal unit number and code.	When no error history, "0" and "—" are displayed by turns.	Code display
	Error thermistor display [When there is no error thermistor, "—" is displayed.]	3: Outdoor pipe temperature /Liquid (TH3) 6: Outdoor pipe temperature /Cond./Eva. (TH6) 7: Outdoor outside temperature (TH7) 8: Outdoor heatsink (TH8)	Code display
	Operation frequency on error occurring 0~255	0~255 (When it is 100Hz or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 125Hz; 0.5 secs. 0.5secs. 2 secs. 	Hz
	Fan step on error occurring 0~10	0~10	Step

SW2 setting	Display detail	Explanation for display	Unit
	LEV-A opening pulse on error occurring 0~480	0~480 (When it is 100 pulse or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 130 pulse; 0.5 secs. 0.5secs. 2 secs. 	Pulse
	Indoor room temperature (TH1) on error occurring 46~102	46~102 (8~39°C)	°F
	Indoor pipe temperature / Liquid (TH2) on error occurring -38~190	-38~190 (-39~88°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.) (Example) When -15°F; 0.5 secs. 0.5secs. 2 secs. 	°F
	Indoor pipe temperature / Cond./ Eva. (TH5) on error occurring -38~190	-38~190 (-39~88°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.) (Example) When -15°F; 0.5 secs. 0.5secs. 2 secs. 	°F
	Outdoor pipe temperature / Cond./ Eva. (TH6) on error occurring -38~190	-38~190 (-39~88°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.) (Example) When -15°F; 0.5 secs. 0.5secs. 2 secs. 	°F
	Outdoor outside temperature (TH7) on error occurring -38~190	-38~190 (-39~88°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.) (Example) When -15°F; 0.5 secs. 0.5secs. 2 secs. 	°F
	Outdoor heatsink temperature (TH8) on error occurring -40~327	-40~327 (-40~164°C) (When the temperature is 0°F or less, “-” and temperature are displayed by turns.) (When the temperature is 100°F or more, hundreds digit, tens digit and ones digit are displayed by turns.)	°F

SW2 setting	Display detail	Explanation for display	Unit																								
ON 123456	Discharge superheat on error occurring SHd 0~327 Cooling = TH4-TH6 Heating = TH4-TH5	0~327 (0~182degC) (When the temperature is 100degF or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 150degF; 0.5 secs. 0.5secs. 2 secs. 1 → 50 →	degF																								
ON 123456	Sub cool on error occurring. SC 0~234 Cooling = TH6-TH3 Heating = TH5-TH2	0~234 (0~130degC) (When the temperature is 100degF or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 115degF; 0.5 secs. 0.5secs. 2 secs. 1 → 15 →	degF																								
ON 123456	Thermostat-on time until error stops 0~999	0~999 (When it is 100 minutes or more, hundreds digit, tens digit and ones digit are displayed by turns.) (Example) When 415 minutes; 0.5 secs. 0.5secs. 2 secs. 4 → 15 →	Minute																								
ON 123456	U9 Error status during the Error postponement period	<table><tr><th>Description</th><th>Detection point</th><th>Display</th></tr><tr><td>Normal</td><td>—</td><td>00</td></tr><tr><td>Overvoltage error</td><td>Power circuit board</td><td>01</td></tr><tr><td>Undervoltage error</td><td>Controller circuit board</td><td>02</td></tr><tr><td>Input current sensor error. L1 or L2-phase open error.</td><td>Controller circuit board</td><td>04</td></tr><tr><td>Abnormal power synchronous signal</td><td>Power circuit board</td><td>08</td></tr><tr><td>PFC error (A12, 18, 24NHA) (Overvoltage / Undervoltage / Overcurrent)</td><td>Power circuit board</td><td>10</td></tr><tr><td>PFC/ ACTM error Undervoltage</td><td>Check CNAF wiring. Defective ACTM/ P.B.</td><td>20</td></tr></table> * Display examples for multiple errors: Overvoltage (01) + Undervoltage (02) = 03 Undervoltage (02) + Power-sync signal error (08) = 0A L₁ phase open error (04) + PFC error (10) = 14	Description	Detection point	Display	Normal	—	00	Overvoltage error	Power circuit board	01	Undervoltage error	Controller circuit board	02	Input current sensor error. L1 or L2-phase open error.	Controller circuit board	04	Abnormal power synchronous signal	Power circuit board	08	PFC error (A12, 18, 24NHA) (Overvoltage / Undervoltage / Overcurrent)	Power circuit board	10	PFC/ ACTM error Undervoltage	Check CNAF wiring. Defective ACTM/ P.B.	20	Code display
Description	Detection point	Display																									
Normal	—	00																									
Overvoltage error	Power circuit board	01																									
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PFC/ ACTM error Undervoltage	Check CNAF wiring. Defective ACTM/ P.B.	20																									

SW2 setting	Display detail	Explanation for display	Unit																
ON 123456	Controlling status of compressor operating frequency	The following code will be a help to know the operating status of unit. •The tens digit <table><tr><th>Display</th><th>Compressor operating frequency control</th></tr><tr><td>1</td><td>Primary current control</td></tr><tr><td>2</td><td>Secondary current control</td></tr></table> •The ones digit (In this digit, the total number of activated control is displayed.) <table><tr><th>Display</th><th>Compressor operating frequency control</th></tr><tr><td>1</td><td>Preventive control for excessive temperature rise of discharge temperature</td></tr><tr><td>2</td><td>Preventive control for excessive temperature rise of condensing temperature</td></tr><tr><td>4</td><td>Frosting preventing control</td></tr><tr><td>8</td><td>Preventive control for excessive temperature rise of heatsink</td></tr></table> (Example) The following controls are activated. • Primary current control • Preventive control for excessive temperature rise of condensing temperature • Preventive control for excessive temperature rise of heatsink LED 18	Display	Compressor operating frequency control	1	Primary current control	2	Secondary current control	Display	Compressor operating frequency control	1	Preventive control for excessive temperature rise of discharge temperature	2	Preventive control for excessive temperature rise of condensing temperature	4	Frosting preventing control	8	Preventive control for excessive temperature rise of heatsink	Code display
Display	Compressor operating frequency control																		
1	Primary current control																		
2	Secondary current control																		
Display	Compressor operating frequency control																		
1	Preventive control for excessive temperature rise of discharge temperature																		
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