

Changes for the Better



**MITSUBISHI
ELECTRIC**
AIR CONDITIONERS CITY MULTI

Models PUHY-P200M-B1-BM/PUHY-P250M-B1-BM

Service Handbook

CITY MULTI

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[III Control]

[1] Functions and Factory Settings of the Dipswitches

1. Outdoor unit

(1) Main board

Switch		Function	Function according to switch setting		Switch setting timing	
			OFF	ON	ON	OFF
SWU	1-2	Unit address setting	Set to 00 or 51-100 with the dial switch (Note 2)			
SW1	1-8	For self diagnosis/operation monitoring	Refer to the LED monitor display on the outdoor unit board.			
	9-10	-	-	-	* Set the switch to OFF	
SW2	1	Centralized control switch	Without connection to the centralized controller	With connection to the centralized controller	Before power on	
	2	Deletion of connection information	Normal control	Deletion	Before power on	
	3	Deletion of error history SW	Storage of IC/OC error history	Deletion of IC/OC error history	Anytime after power on (When switched from OFF to ON)	
	4	Refrigerant amount adjustment	Normal control	Refrigerant amount adjustment mode	Anytime after power on (When switched from OFF to ON)	10 minutes after compressor startup
	5	Heating refrigerant pay-back time	15 sec.	30 sec.	Anytime after power on	
	6	OA sensor failure/ Liquid level over flow abnormality enabled	Failure enabled	Failure disabled	Anytime after power on	
	7	Forced defrost	Normal control	Forced defrost starts	Anytime after power on (When switched from OFF to ON)	10 minutes after compressor startup
	8	Defrost timer setting	39 minutes	90 minutes	Anytime after power on (Except during defrost operation)	
	9	-	-	-	Anytime after power on (Only when switched from OFF to ON)	
	10	-	-	-	-	
SW3	1	SW 3-2 enabled/disabled	SW3-2 disabled	SW3-2 enabled	Anytime after power on	
	2	Test run mode: ON/OFF	Stops all ICs	Sends a test-run signal to all ICs	After power on and when SW3-1 is on.	
	3	Defrost start temperature	-10°C [14°F]	-7°C [19°F]	Anytime after power on	
	4	Defrost end temperature	8°C [46°F]	15°C [59°F]	Anytime after power on (Except during defrost operation)	
		LEV opening of IC without heating thermo-ON system during defrost operation	Normal control	2000		
	5	-	-	-	-	
	6	Pump down operation	Normal control	Pump down operation	Anytime after power on (When switched from OFF to ON)	
	7	Target condensing temperature on the heating mode Tcm	49°C [120°F]	53°C [127°F]	Anytime after power on	
	8	-	-	-	-	
	9	Unit model selection	SW 3-10 and 4-4 enabled	SW 3-10 and 4-4 for model P355 disabled	Before power on	
10	Model P200		Model P250	Before power on		
SW4	1	SW4-2 enabled/disabled	Disabled	Enabled	Anytime after power on	
	2	Composition correction value	Value will be changed as follows when the switch turns ON to OFF or OFF to ON ±0%→+3%→+6%→+9%→+12%→-6%→-3%→±0%		SW4-1 is on.	
	3	-	-	-	-	
	4	-	-	-	OFF	
	5	-	-	-	-	
	6	-	-	-	-	
	7	-	-	-	-	
	8	-	-	-	OFF	
	9	-	-	-	-	
	10	-	-	-	-	

Note 1: SWU 1-2 is set to 00 and SWU 3-10 is set in every model, and other SWUs are set to OFF at factory shipment.
 Note 2: When the outdoor unit address is set to 100, set the address setting switch to any one of 01-50.

[IV Test Run Mode]

[1] Standard Operation Data (Reference Data)

1. PUHY

(1) Cooling operation

Operation				Outdoor unit model								
				PUHY-P200				PUHY-P250				
Operating conditions	Ambient temperature	Indoor	DB/ WB °C	27/19								
		Outdoor		35/24								
	Indoor unit	No. of connected units		Unit	4							
		No. of units in operation			4							
		Model			-	80	71	56	22	112	80	71
	Piping	Main pipe		m	5							
		Branch pipe			10							
		Total pipe length			45				45			
	Fan speed			-	Hi							
	Amount of refrigerant			kg	11.7				13.7			
Outdoor unit	Electric current		A	27.7				34.7				
	Voltage		V	200								
LEV opening	Indoor unit		Pulse	270	420	360	250	360	270	420	250	
	SC (LEV1)			116				132				
	Oil return section (SLEV)			200				272				
Pressure	High pressure (after O/S)/low pressure (before accumulator)		MPa	2.15/0.5 (21.9/5.1)				2.15/0.46 (21.9/4.7)				
Temp. of each section	Outdoor unit	Discharge (TH1)		°C	87				97			
		Heat exchanger outlet (TH5)			40				42			
		Accumulator	Inlet		9				7			
			Outlet		11				9			
		Compressor inlet			9				12			
		Low pressure two-phase temp. (TH2)			4				2			
		Liquid level detection, upper (TH4)			30							
		Liquid level detection, lower (TH3)			8				7			
		Compressor shell bottom			75							
		SC heat exchanger outlet (TH7)*			27							
	Bypass outlet (TH8)*		10				8					
	Indoor unit	LEV inlet			26							
		Heat exchanger outlet			12							
	Composition detection value (αOC)				0.23							

[IV Test Run Mode]

(2) Heating operation

Operation				Outdoor unit model								
				PUHY-P200				PUHY-P250				
Operating conditions	Ambient temperature	Indoor	DB/WB °C	20/-								
		Outdoor		7.0/6.0								
	Indoor unit	No. of connected units		Unit	4							
		No. of units in operation			4							
		Model			-	80	71	56	22	112	80	71
	Piping	Main pipe		m	5							
		Branch pipe			10							
		Total pipe length			45							
	Fan speed			-	Hi							
	Amount of refrigerant			kg	11.7				13.7			
Outdoor unit	Electric current		A	27.0				33.5				
	Voltage		V	200								
LEV opening	Indoor unit		Pulse	290	470	410	250	330	290	470	250	
	SC (LEV1)			0								
	Oil return section (SLEV)				123				200			
Pressure	High pressure/low pressure		MPa	2.10/0.36 (21.4/3.7)				2.10/0.36 (21.4/3.7)				
Temp. of each section	Outdoor unit	Discharge (TH11/TH12)		°C	83				88			
		Heat exchanger outlet (TH5)			-3				-2			
		Accumulator	Inlet		-3				-4			
			Outlet		-3				-4			
		Compressor inlet			-3				-4			
		Low pressure two-phase temp. (TH2)			-8							
		Liquid level detection, upper (TH4)			35				38			
		Liquid level detection, lower (TH3)			-3							
		Compressor shell bottom			35				44			
	Indoor unit	LEV inlet			30							
		Heat exchanger outlet			74							
	Composition detection value (αOC)					0.28						

[V Troubleshooting]

[1] Check Code Lists

Error Code	Error code definition		Searched unit				Notes
			Outdoor unit	Indoor unit	Outdoor temp. processing unit	Remote controller	
0403	Serial communication error		○				
0900	Test run mode				○		
1102	Abnormal discharge air temperature		○				
1111	Low pressure saturation temp. sensor (TH2)		○				
1112	Abnormal low pressure saturation temp.	Liquid level detection temperature sensor (TH3)	○				
1113		Liquid level detection temp. sensor (TH4)	○				
1143	Abnormal shell temp. at compressor		○				
1301	Abnormal low pressure		○				
1302	Abnormal high pressure		○				
1500	Excessive or insufficient refrigerant		○				
2500	Water leakage			○			
2502	Drain pump failure/Float switch trip			○			
2503	Drain pump failure/Float switch trip			○	○		
2600	Water leakage				○		
2601	Water supply cut-off				○		
4102	Open phase		○				
4103	Reverse phase/open phase		○				
4115	Power supply sync signal abnormality		○				
4116	RPM error/Motor malfunction			○	○		
4121	Harmonics action device error		○				
4200	Vdc sensor/circuit failure		○				
4220	Bus voltage drop protection		○				
4230	Heatsink overheat protection		○				
4240	Overload protection		○				
4250	IPM/Bus voltage abnormality		○				
4260	Cooling fan abnormality		○				
5101	Temperature sensor failure	Suction air temperature (TH21)		○			
		Return of OA processing unit (TH4)			○		
Discharge air temperature (TH1, TH11, TH12)		○					
Indoor piping (TH22)			○				
5102		Pipes on the OA processing unit (TH2)			○		
		Outdoor low pressure saturation (TH2)	○				

[V Troubleshooting]

Error Code	Error code definition		Searched unit				Notes
			Outdoor unit	Indoor unit	Outdoor temp. processing unit	Remote controller	
5103	Temperature sensor failure	Gas side pipe (TH23)		O			
		Pipes on the OA processing unit (gas side) (TH3)			O		
		Outdoor liquid level detection (TH3)	O				
5104		Pipes on the OA processing unit (TH1)			O		
		Liquid level detection (TH4)	O				
5105		Pipe (TH5)	O				
5106		Outside air temperature (TH6)	O				
5107		Liquid temp. (TH7)	O				
5108	SC coil bypass outlet (TH8)	O					
5109	Liquid temp. sensor at CS circuit failure (TH9, TH9b)	O					
5110	Radiator plate at INV temp. sensor failure (THHS)	O					
5112	Shell temp. sensor at compressor (TH10)	O					
5201	High pressure sensor failure (HPS)	O					
5301	IDC sensor/circuit failure	O					
6600	Address overlaps	O	O	O	O		
6602	Transmission processor hardware error	O	O	O	O		
6603	Transmission circuit bus-busy	O	O	O	O		
6606	Communication error with the transmission processor	O	O	O	O		
6607	No ACK		O	O	O		
6608	No response		O	O	O		
6810	UR communication error (UR: unit remote controller)		O	O	O	In case of using UR.	
7100	Total capacity error	O					
7101	Capacity code error	O	O	O			
7102	Error in the number of connected units	O					
7105	Address setting error	O					
7106	Attribute setting error			O			
7109	Connection settings error	O					
7110	Unset unit connection information error	O					
7111	Remote controller sensor failure		O	O			
7130	Incompatible units	O					

[2] Preliminary error Code Lists (Outdoor unit only)

Preliminary error code	Contents of preliminary error
1202	Abnormal discharge air temp. or discharge air temp. sensor preliminary failure (TH1)
1205	Piping temp. sensor preliminary failure (TH5)
1211	Low pressure saturation temp. or low pressure saturation temp. sensor preliminary failure (TH2)
1212	Low pressure saturation temp. or temp. sensor on liquid level detection preliminary failure (TH4)
1213	Low pressure saturation temp. or temp. sensor under liquid level detection preliminary failure (TH3)
1214	THH sensor/circuit preliminary failure
1216	Liquid outlet temp. sensor at Sub-Cool coil preliminary failure (TH7)
1217	Bypass outlet temp. sensor at Sub-Cool coil preliminary failure (TH8)
1219	Liquid temp. at composition detection or liquid temp. sensor at composition detection preliminary failure
1221	OA temp. sensor preliminary failure (TH6)
1243	Oil temp. at compressor or oil temp. sensor at compressor preliminary failure
1402	High pressure error or pressure sensor preliminary failure
1600	Overfilling refrigerant preliminary error
1605	Preliminary vacuum operation protection
1607	Preliminary CS circuit choking malfunction
4171	Harmonics action device preliminary error
4300	Idc sensor/circuit preliminary failure
	Vdc sensor/circuit preliminary failure
	Serial communication preliminary error
4320	Preliminary bus voltage drop abnormality
4330	Preliminary heat sink overheat malfunction
4340	Overload protection
4350	Preliminary IPM/Bus voltage abnormality
4360	Cooling fan preliminary failure

[3] Responding to Error Display on the Remote Controller

1. Mechanical system

Error Code		Error definition and error detection method	Cause	Check method and remedy
0403	Serial communication error	Serial communication error between the main board and the INV board.	(1) Faulty wiring	Check for wiring between the connector (CNRS3B) on the main board and the connector (CNRS2) on the INV board. Check for contact of the connectors.
			(2) Inverter board switch setting error	Confirm that the SW1-4 on the INV board is set to OFF.
			(3) INV board failure	Replace the compressor INV board when the power turns on automatically, even if the power source is reset.
1102	Abnormal discharge air temperature	<p>1. If the discharge temperature of 140°C [284°F] or more is detected during the above operation (the first detection), the outdoor unit stops once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes automatically.</p> <p>2. If the discharge temperature of 140°C [284°F] or more is detected again (the second detection) within 30 minutes after the second stop of the outdoor unit described above, the mode will be changed to 3-minute restart mode, then the outdoor unit will restart in 3 minutes.</p> <p>3. If the discharge temperature of 140°C [284°F] or more is detected (the third detection) within 30 minutes after the stop of the outdoor unit described above (regardless of the first or the second stop), the outdoor unit will make an error stop, and the error code "1102" will be displayed.</p> <p>4. If the discharge temperature of 140°C [284°F] or more is detected more than 30 minutes after the previous stop of the outdoor unit, the detection is regarded as the first detection, and the operation described in step 1 above will start.</p> <p>5. For 30 minutes after the stop (the first stop or the second stop) of the outdoor unit, preliminary errors will be displayed on the LED display.</p>	(1) Gas leak, gas shortage	Check the refrigerant amount.
			(2) Overload operation	Check operating conditions and operation status of indoor/outdoor units.
			(3) LEV failure on the indoor unit	Perform a cooling or heating operation and check the operation. Cooling : LEV on the indoor unit LEV1 Heating : LEV on the indoor unit Check the LEV.
			(4) LEV1 failure on the outdoor unit	
			(5) Closed ball valve	Confirm that the ball valve is fully open.
			(6) Outdoor fan (including fan parts) failure, motor failure, or fan controller malfunction Rise in discharge temp. by low pressure drawing for (3) - (6).	Check the fan on the outdoor unit. Refer to the section on troubleshooting the outdoor unit fan.
			(7) Gas leak between low and high pressures (4-way valve failure, Compressor failure, Solenoid valve (SV1, SV2) failure)	Perform a cooling or heating operation and check the operation.
			(8) Solenoid valve (SV2) failure (The by-pass valve (SV2) can not control rise in high pressure.)	Check the solenoid valve
			(9) Thermistor failure (TH1, TH11, TH12)	Check the thermistor resistor.
			(10) Input circuit failure on the controller board thermistor	Check the inlet air temperature on the LED monitor.

Error Code		Error definition and error detection method	Cause	Check method and remedy
1111	Saturation temp. sensor (TH2)	1. If the saturation temp. sensor TH2 or temp. sensor for liquid level detection TH3/TH4 detects -40°C [-40°F] or lower during the above operation (the first detection), the outdoor unit stops once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes automatically.	(1) Gas leak, gas shortage	Check the refrigerant amount.
			(2) Light-load operation	Check operating conditions and operation status of indoor/outdoor units.
1112	Liquid level detection temp. sensor (TH4)	2. If the discharge temperature of -40°C [-40°F] or lower is detected again (the second detection) within 30 minutes after the second stop of the outdoor unit described above, the mode will be changed to 3-minute restart mode, then the outdoor unit will restart in 3 minutes.	(3) LEV failure on the indoor unit	Perform a cooling or heating operation and check the operation. Cooling : LEV on the indoor unit LEV1 Heating : LEV on the indoor unit. Check the solenoid valve
			(4) LEV1 failure on the outdoor unit → Cooling	
1113	Liquid level detection temp. sensor (TH3)	3. If the discharge temperature of -40°C [-40°F] or lower is detected (the third detection) within 30 minutes after the stop of the outdoor unit described above (regardless of the first or the second stop), the outdoor unit will make an error stop, and the error code "1111", "1112" or "1113" will be displayed.	(6) Short cycle on the indoor unit side	Check the indoor units for problems and correct them, if any.
			(7) Clogged filter on the indoor unit	
1113	Liquid level detection temp. sensor (TH3)	4. If the discharge temperature of -40°C [-40°F] or lower is detected more than 30 minutes after the previous stop of the outdoor unit, the detection is regarded as the first detection, and the operation described in step 1 above will start.	(8) Reduced air flow due to dirty fan on the indoor unit	Check the outdoor fan.
			(9) Dirty heat exchanger of the indoor unit	
1113	Liquid level detection temp. sensor (TH3)	5. For 30 minutes after the stop (the first stop or the second stop) of the outdoor unit, preliminary errors will be displayed on the LED display.	(10) Fan block of the indoor unit and the motor failure Lowered in low pressure caused by lowered evaporation capacity in cooling operation for (5) - (10).	Check the outdoor fan.
			(11) Short cycle on the outdoor unit side	
1113	Liquid level detection temp. sensor (TH3)	Note 1: The Saturation temp. error. is not detected for 3minutes after the compressor starts, during the defrost operation and for 3 minutes after the defrost operation stops.	(12) Dirty heat exchanger of the outdoor unit	Check the outdoor fan.
			(13) Fan block of the indoor unit, the motor, the fan condenser and the magnetic contactor 52F failure Lowered in low pressure caused by lowered capacity in heating operation for (11) - (12), or evaporation capacity excess in cooling operation.	
1113	Liquid level detection temp. sensor (TH3)	Note 2: When short/open is detected by the sensor TH2-TH4 in ten minutes before and after the compressor runs, "1111", "1112" or "1113" will be displayed.	(14) Solenoid calve SV2 failure The by-pass valve (SV2) can not control drop in low pressure.	Check the solenoid valve
			(15) Thermistor failure (TH2-TH6)	Check the resistance value of the thermistor
1113	Liquid level detection temp. sensor (TH3)	Note 2: When short/open is detected by the sensor TH2-TH4 in ten minutes before and after the compressor runs, "1111", "1112" or "1113" will be displayed.	(16) Pressure sensor failure	Check the pressure sensor
			(17) Thermistor on the control board/input circuit of the pressure sensor failure	Check the inlet temperature of the sensor/pressure on the LED monitor.
1113	Liquid level detection temp. sensor (TH3)	Note 2: When short/open is detected by the sensor TH2-TH4 in ten minutes before and after the compressor runs, "1111", "1112" or "1113" will be displayed.	(18) Thermistor settings error (TH2-6)	

[V Troubleshooting]

Error Code	Error definition and error detection method	Cause	Check method and remedy		
1143	Shell temperature sensor of compressor (TH10) 1. If the shell temperature sensor of compressor (TH10) detects 85°C [185°F] and more for 60-minutes stretch (the first detection), the outdoor unit stops at once turns to anti-restart-mode for 3 minutes, and restarts after 3 minutes automatically. 2. If the shell temperature sensor of compressor detects 85°C [185°F] and more for 60-minutes stretch (the second detection), the outdoor unit will make an error stop and the error code "1143" will be displayed. 3. If the shell temperature sensor of compressor detects 85°C [185°F] and more for 60-minutes stretch (the third detection) after the previous stop of the outdoor unit, the detection is regarded as the first detection, and the operation described in step 1 above will start. 4. For 2 hours after the stop (the first stop or the second stop) of the outdoor unit, preliminary errors will be displayed on the LED display.	(1) Gas leak, gas shortage	Check the refrigerant amount.		
		(2) Heavy-load operation	Check operation conditions and operation status of indoor/outdoor units.		
		(3) LEV failure on the indoor unit (4) LEV1 failure on the outdoor unit (5) SLEV failure on the indoor unit	Perform a cooling or heating operation and check the operation status. Cooling : LEV on the indoor unit SLEV Heating : LEV on the indoor unit SLEV Check LEV and the solenoid valve.		
		(6) Ball valve failure	Confirm that the ball valve is fully open.		
		(7) Thermistor failure	Check the resistance value of the thermistor.		
		(8) Thermistor input circuit failure	Check the inlet temperature of the sensor on the LED monitor		
		1301	Abnormal low pressure When starting the compressor from Stop Mode for the first time if low-pressure reads 0.098MPa [14psi] immediately before start-up, the operation immediately stops.	(1) Inner pressure drop due to a leakage.	Check the low pressure sensor.
				(2) Low pressure sensor failure (3) Short-circuited pressure sensor cable due to torn outer rubber (4) A pin on the male connector is missing. (5) Disconnected wire (6) Failure of the low pressure input circuit on the controller board	

Error Code	Error definition and error detection method	Cause	Check method and remedy	
1302	Abnormal high pressure 1 (outdoor unit)	<p>1. If the pressure of 2.74MPa [397psi] or higher is detected by the pressure sensor during operation (the first detection), the outdoor stops once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes automatically.</p> <p>2. If the pressure of 2.74MPa [397psi] or higher is detected by the pressure sensor again (the second detection) within 30 minutes after the first stop of the outdoor unit, the outdoor unit stops once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes automatically.</p> <p>3. If the pressure of 2.94MPa [426 psi] or higher is detected by the pressure sensor (the third detection) within 30 minutes of the second stop of the outdoor unit, the outdoor unit will make an error stop, and the error code "1302" will be displayed.</p> <p>4. If the pressure of 2.74MPa [397 psi] or higher is detected more than 30 minutes after the stop of the outdoor unit, the detection is regarded as the first detection, and the operation described in step 1 above will start.</p> <p>5. For 30 minutes after the stop of the outdoor unit, preliminary errors will be displayed on the LED display.</p> <p>6. The outdoor unit makes an error stop immediately when not only the pressure sensor but also the pressure switch detects $2.94^{+0,-1.5}$ MPa [$426^{+0,-218}$ psi]</p>	(1) LEV failure on the indoor unit → Heating	Perform a heating operation and check the operation. Heating : LEV Check the LEV.
			(2) Closed ball valve	Confirm that the ball valve is fully open.
			(3) Short cycle on the indoor unit side	Check the indoor units for problems and correct them, if any.
			(4) Clogged filter on the indoor unit	
			(5) Reduced air flow due to dirty fan on the indoor unit fan	
			(6) Dirty heat exchanger of the indoor unit	
			(7) Indoor fan (including fan parts) failure or motor failure Rise in high pressure caused by lowered condensing capacity in heating operation for (2) - (6).	
			(8) Short cycle on the outdoor unit	Check the outdoor units for problems and correct them, if any.
			(9) Dirty heat exchanger of the outdoor unit	
			(10) Outdoor fan (including fan parts) failure, motor failure, or fan controller malfunction Rise in discharge temp. by low pressure drawing for (8) - (10).	Check the fan on the outdoor unit. Refer to the section on troubleshooting the outdoor unit fan.
			(11) Solenoid valve (SV1, SV2) malfunction (The bypass valve (SV1,2) can not control rise in high pressure).	Check the solenoid valve.
			(12) Thermistor failure (TH2, TH5, TH6).	Check the thermistor resistor.
			(13) Pressure sensor failure	Check the high pressure sensor.
			(14) Failure of the thermistor input circuit and pressure sensor input circuit on the controller board	Check the temperature and the pressure of the sensor with LED monitor.
			(15) Faulty mounting of thermistor (TH2, TH5, TH6)	Check the temperature and the pressure of the sensor with LED monitor.
			(16) Disconnected male connector on the pressure switch (63H) or disconnected wire	

[V Troubleshooting]

Error Code		Error definition and error detection method	Cause	Check method and remedy
1302	Abnormal high pressure 2 (outdoor unit)	If the pressure of 0.098MPa [14psi] or lower is registered on the pressure sensor immediately before start-up, it will trigger an abnormal stop, and error code "1302" will be displayed.	<ol style="list-style-type: none"> (1) Inner pressure drop due to a leakage. (2) Pressure sensor failure (3) Shorted-circuited pressure sensor cable due to torn outer rubber (4) A pin on the male connector on the pressure sensor is missing or contact failure (5) Disconnected pressure sensor cable (6) Failure of the pressure sensor input circuit on the controller board 	Check the high pressure sensor.
1500	Refrigerant overcharge	<p>An error can be detected by the discharge temperature superheat and by the liquid level of an accumulator shown below.</p> <p>1. If the liquid level of an accumulator AL=2 (overflow level) is detected during operation (the first detection), the outdoor unit stops at once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes automatically.</p> <p>2. If the liquid level of an accumulator AL=2 (overflow level) is detected again within 30 minutes after first stop of the outdoor unit (the second detection), the outdoor unit will make an error stop, and the error code "1500" is displayed.</p>	<ol style="list-style-type: none"> (1) Overcharged refrigerant (2) Liquid level heater disconnection (3) Heater failure by control board failure 	Check the refrigerant amount.
			<ol style="list-style-type: none"> (4) Thermistor failure (TH2, TH3, TH4) 	Check the resistance of the thermistor
			<ol style="list-style-type: none"> (5) Thermistor input circuit failure on the main board 	Check the temperature and the pressure of the sensor with LED monitor.
			<ol style="list-style-type: none"> (6) Faulty mounting of thermistor (TH1, TH11, TH12, TH2, TH3, TH4) 	
		<p>3. If the liquid level of an accumulator AL=2 (overflow level) is detected more than 30 minutes after the outdoor unit stops, and the operation described in step 1 above will start.</p> <p>4. For 30 minutes after the stop of the outdoor unit, preliminary errors will be displayed on the LED display.</p>	<p>5. When the inhibiting switch for abnormal draw turns on, the operation described in step 1 above will start on the outdoor unit even in the second detection or later.</p>	
2500	Water leakage	When the drain sensor detects water or its tip becomes immersed in water.	<ol style="list-style-type: none"> (1) Water leakage due to problems with such equipment as a humidifier 	Check for water leakage around the humidifier and clogging of outlet of the drain pan.
2502	Drain pump failure	The drain sensor detects water or its tip becomes immersed in water in 3 min. or later after the drain pump turns on. The sensor detects submergence when the temperature rises within 20deg in 40 sec. from the start of indirectly heated heater on the drain sensor runs, or the temperature of the drain sensor is 63°C [145°F] or less after 40 sec. or later.	<ol style="list-style-type: none"> (1) Drain water level rises and the drain sensor became immersed in water. 	Check the drain pump
			<ol style="list-style-type: none"> (2) Disconnected the indirectly heated heater on the drain sensor. 	Measure the resistance value of the indirectly heated heater on the drain sensor. (Normal value is 82 ohm between 1-3 of CN50)
			<ol style="list-style-type: none"> (3) The detection circuit (board) failure 	If no fault is found, the indoor board is faulty.
			<ol style="list-style-type: none"> (4) LEV in the indoor unit failure. 	When the indoor unit is operated in fan mode, check the rise of TH2 and TH3 nearly the room temperature.

[V Troubleshooting]

Error Code		Error definition and error detection method	Cause	Check method and remedy								
2503	Drain sensor failure	When a short or an open is detected during operation (cannot be detected during OFF). Short : detectable at 90°C [194°F] or higher Open : detectable at -40°C [-40°F] or lower	(1) Thermistor failure (2) Connector contact failure (loose connector) (3) Disconnected wire or partial disconnected thermistor wire	Check the thermistor resistance. 0°C [32°F]: 15kohm 10°C [50°F]: 9.7kohm 20°C [68°F]: 6.4kohm 30°C [86°F]: 4.3kohm 40°C [104°F]: 3.1kohm								
			(4) Indoor board (detection circuit) failure	Check the connector contact. If no fault is found, the indoor board is a failure.								
2600	Water leakage	-	Water leaks from the pipes in such as the humidifier.	Check the location of the leak.								
2601	Water supply cut-off	-	(1) The water tank of the humidifier is empty.	Check the amount of supply water. Check for the solenoid valve and for the connection.								
			(2) The solenoid valve for humidification is OFF.	Check the connector.								
			(3) Disconnected float switch	Check the connecting part.								
			(4) Poor operation of float switch	Check for the float switch.								
			(5) Frozen water tank	Turn off the power source of the water tank to defrost, and turn it on again.								
4102	Open phase	The operation cannot be started because of the reserve phase of one of the power lines (R, S or T).	(1) Power supply error •Open phase of power supply voltage •Power-supply voltage drop	Check the voltage of the power supply terminal block (TB1)								
			(2) Faulty wiring •Between the power supply terminal block TB1 and the main board CN20	Measure voltages between pins 3, 5 and 7 of the connector on the main board. If the voltage does not be measured 180VAC or more, the wiring is faulty.								
			•Between the high pressure switch 63H1, H2 and the main board CN38	Check whether the connector on the main board is disconnected. Check whether the wiring to CN38 is opened.								
			(3) The fuse on the main board failure	Check whether the fuses on the main board (FO1 and FO2) are blown.								
			(4) The main board failure	If the above faults are not found, the main board is faulty.								
4103	Reverse phase/open phase	1. When turning on the power, the operation cannot be started because of the open phase of one of the power lines (R, S, T).	(1) Faulty wiring	Check whether the phase of the power supply terminal block (TB1) is normal. Check the wiring between the power supply terminal block (TB1) and the main boards (CN20). <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>TB1</td> <td>CN20</td> </tr> <tr> <td>R</td> <td>7Pin</td> </tr> <tr> <td>S</td> <td>5Pin</td> </tr> <tr> <td>T</td> <td>3Pin</td> </tr> </table>	TB1	CN20	R	7Pin	S	5Pin	T	3Pin
			TB1	CN20								
		R	7Pin									
S	5Pin											
T	3Pin											
(2) Main board failure.	If the above faults are not found, the main board is faulty.											
	2. The operation cannot be started because of the reserve phase of one of the power lines (R, S, T).	(1) Refer to 4102 error										

[V Troubleshooting]

Error Code	Error definition and error detection method	Cause	Check method and remedy
4108	Overcurrent protection	(1) Overload operation that exceeds unit use limit	Check the unit working condition.
		(2) Power supply error •Power-supply voltage drop •Open phase of power supply voltage	Check the voltage of the power supply terminal block (TB1). Check for open phase.
		(3) Faulty wiring	Check 52C2 connector and the wiring.
		(4) Compressor failure •Compressor open phase or grounding fault •Compressor lock	Check the wiring and apply a megger to the compressor. Start operation under no-load conditions. Remove the power wire on the compressor-side, insulate the power line and start operation. → The compressor is faulty if 52C2ON normally turns on.
4115	Power supply sync signal abnormality	(1) Power supply error	Check the voltage of the power supply terminal block (TB1).
		(2) A fuse is blown	Check the fuses on the main board (F1 and F2).
		(3) Faulty wiring	Measure voltages between pins 1, 5 and 7. If the voltage (AC200V) is not the same as the power supply voltage, the wiring is faulty.
		(4) Main board failure	If none of the items described above is applicable, and if the trouble reappears even after the power is switched on again, replace the MAIN board.

[V Troubleshooting]

Error Code		Error definition and error detection method	Cause	Check method and remedy
4116	Fan rotation speed abnormality	<p>1. If the fan rotation speed is detected to 180rpm or lower, or 2000rpm or more during the fan operation in the indoor unit, the unit stops once, turns to anti-restart mode for 3 minutes, and makes fan to stop for 30 seconds.</p> <p>2. If the fan rotation speed is detected to 180rpm or lower, or 2000rpm or more again when the restart operation after 30 seconds since the fan stops, the unit makes an error stop (fan also stops), and the error code "4116" will appear.</p>	(1) The connector for fan rotation speed detection (CN33) on the indoor control board is blown	Check whether the connector for fan rotation speed detection (CN33) on the indoor control board is blown.
			(2) The connector for fan output (FAN 1) on the indoor power board is blown	Check whether the connector for fan output (FAN 1) on the indoor power board is blown
			(3) Disconnection of the connector for fan rotation speed detection (CN33) on the indoor control board or the connector for fan output (FAN 1) on the indoor power board	Check whether the wiring is disconnected.
			(4) Clogged filter	Check the filter.
			(5) The indoor fan motor malfunction	Check the indoor fan motor.
			(6) The circuit of fan rotation speed detection on the indoor control board or the circuit of fan output on the indoor power board faulty	<p>If the above faults are not found</p> <p>(1) Malfunction occurs since the fan is operated Replace the indoor control board. If the replacement does not work, replace the indoor power board.</p> <p>(2) Malfunction occurs since the fan is not operated Replace the indoor power board.</p>
Motor abnormality	<p>[LOSSNAY only]</p> <p>1. The motor keep running even if the power is OFF.</p> <p>2. The thermal overload relay is ON. (Only for the three-phase model)</p>	(1) Board failure	Replace the board.	
		(2) Motor malfunction	Check for the motor and the solenoid switch.	
		(3) Solenoid switch malfunction		

[V Troubleshooting]

Error Code	Error definition and error detection method	Cause	Check method and remedy														
4121	Harmonics action device error	Active filter (Communication error to PAC-KB51AAC)	(1) Connecting switch to the active filter in the indoor unit is turned on, though the unit is not connected to the filter.														
			(2) Wiring error														
			(3) Active filter failure														
			<p>Turn the connecting switch to the active filter in the indoor unit (DIP switch on the outdoor control board SW3-8) off.</p> <p>Check whether the power supply wiring of the active filter is connected to the power supply terminal block in the indoor unit. Check the contact between the connector of the main board CN51 and CN3S (3D) to the active filter.</p> <p>Check details with LED3-5 on the board of the active filter. * Before decomposition process, wait for 10 minutes or more since the power supply is cut. Then confirm CHARGE (LED1) is turned off and the charge voltage is low enough to process.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Detection error if active filter (LED display)</th> <th>Error contents</th> </tr> </thead> <tbody> <tr> <td>OC (LED 3) is lit</td> <td>Over current (peak 60A min.)</td> </tr> <tr> <td>OC (LED 3) blinks</td> <td>ACCT connector (AF board-CN4) blown</td> </tr> <tr> <td>OV (LED 4) is lit</td> <td>DC bus over-voltage (410V min.)/under voltage (300V max. in operation)</td> </tr> <tr> <td>OH (LED 5) is lit</td> <td>Heating (Heat sink thermo (100°C) ON)</td> </tr> <tr> <td>All LED are lit</td> <td>Flash stop, Interruption of service, Open-phase, Power supply voltage rise/drop</td> </tr> <tr> <td>All LED blink</td> <td>Heat sink thermo ON before running, Flash stop, Interruption of service, Open-phase, Power supply voltage rise/drop error delay</td> </tr> </tbody> </table> <p style="text-align: right;">* Check the active filter when it is in failure.</p>	Detection error if active filter (LED display)	Error contents	OC (LED 3) is lit	Over current (peak 60A min.)	OC (LED 3) blinks	ACCT connector (AF board-CN4) blown	OV (LED 4) is lit	DC bus over-voltage (410V min.)/under voltage (300V max. in operation)	OH (LED 5) is lit	Heating (Heat sink thermo (100°C) ON)	All LED are lit	Flash stop, Interruption of service, Open-phase, Power supply voltage rise/drop	All LED blink	Heat sink thermo ON before running, Flash stop, Interruption of service, Open-phase, Power supply voltage rise/drop error delay
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4200	VDC sensor/Circuit failure	If Vdc 150V or less or 400V or more is detected before Inverter operation	(1) Connected to wrong voltage														
			(2) INV board failure														
			<p>Check the power supply voltage by power supply terminal block (TB1)</p> <p>If the power supply has no faults, replace the INV board.</p>														

[V Troubleshooting]

Error Code		Error definition and error detection method	Cause	Check method and remedy
4220	Bus voltage drop protection	If Vdc 220V or less is detected during Inverter operation.	(1) Power supply environment	Check whether the unit makes an instantaneous stop when the detection result is abnormal or a power failure occurs. Check whether the power voltage is 180V or less across all phases.
			(2) Voltage drop detected	Check voltage between FN01-FN02 on the G/A board. → If the voltage drops, refer to (3). Check voltage of the first part of CNDC on the G/A board. → If the voltage drops, replace G/A board. Check voltage of the second part of CNDC on the INV board connector → If the voltage drops, the wiring connection failure. Check solder of the second part of CNDC on the INV board connector. → Replace INV board if cracks etc. are found.
			(3) INV board failure	Check whether DC12V is applied to the inverter board connector (CN52C) during inverter operation.
			(4) 52C failure	Check the resistance of 52C coil. Check the voltage between 52C contacts during the inverter operation.
			(5) Diode stack failure	Check the diode stack resistance

Error Code		Error definition and error detection method	Cause	Check method and remedy
4230	Heatsink over-heat protection	If the cooling fan operation for 5 minutes or more in a low and the heat sink temperature (THHS) 92°C [198°F] or more is detected by the cooling fan during the inverter operation.	(1) Air passage blockage	Check that the heat sink cooling air passage is not blocked.
			(2) Faulty wiring	Check for cooling fan wiring.
			(3) THHS failure	Check for THHS sensor resistor.
			(4) INV board failure	Check that a voltage of 200V is applied to the compressor INV board connector CNFAN while the inverter is in operation. Check whether the heat sink temperature is 55°C [131°F] or more, and the voltage of 200V is applied to the connector CNFAN on the INV board while the inverter is in operation.
			(5) Cooling fan failure	Check the cooling fan operation under the above operating conditions.
			(6) IPM failure	Replace IPM
4240	Overload protection	When Idc 103A or more is detected for 10 minutes in a low during the inverter operation after 5 seconds passed since the inverter started.	(1) Short cycle of the air passage	Check that the waste heat from the outdoor unit fan is not short cycled.
			(2) Power supply	Check whether the power supply voltage is 180V or more.
			(3) Inverter output failure	Check whether the applied voltage of the compressor is unbalanced. If so, replace IPM and G/A board.
			(4) Compressor failure	Check that the compressor has not overheated during operation. → Check the refrigerant circuit (oil return section). Replace the compressor when no fault is found.
			(5) Current sensor failure	If the above faults are not found, replace the current sensor (DCCT).
			(6) IPM failure	Replace IPM

Error Code		Error definition and error detection method	Cause	Check method and remedy	
4250	IPM / Bus voltage abnormality	When an error signal of IPM is detected Overload Control power supply Voltage drop	(1) Inverter output related	Check the inverter.	
			(2) Same as 4230 error	Check 4230 error.	
			(3) Same as 4220 error	Check 4220 error.	
		When the DC bus current (DCCT) 200A or more is detected	(1) Inverter output related	Check the inverter	
			When the DC bus current abnormality VDC 350V or more or VDC 190V or less is detected	(1) Same as 4220 error	Check 4220 error.
				(2) G/A board failure	Check whether the parts on the G/A board are disconnected (C50, 51).
(3) Electrolytic capacitor (C1) failure	If the above faults are not found, replace the electrolytic capacitor.				
4260	Cooling fan abnormality	When the heat sink temperature (THHS1) 60°C [140°F] or more is detected for 10 or more minutes at inverter startup	(1) Same as 4230 error	Same as 4230 error.	
			(2) THHS failure	Check for short circuit in THHS sensor.	
			(3) INV board failure	Replace INV board	

Temperature sensor failure (indoor unit)				
Error Code		Error definition and error detection method	Cause	Check method and remedy
5101	Air inlet	If a short or an open is detected during thermostat ON, the outdoor unit turns to anti-restart mode for 3 minutes. When the error is not restored after 3 minutes (if restored, the outdoor unit runs normally), the outdoor unit makes an error stop.	(1) Thermistor failure (2) Connector contact failure (3) Disconnected wire or partial disconnected thermistor wire (4) Unattached thermistor or contact failure	Check the thermistor resistor. 0°C [32°F]: 15 kohm 10°C [50°F]: 9.7 kohm 20°C [68°F]: 6.4 kohm 30°C [86°F]: 4.3 kohm 40°C [104°F]: 3.1 kohm
5102	Liquid pipe	Short: detectable at 90°C [194°F] or higher Open : detectable at -40°C [-40°F] or lower	(5) Indoor board (detection circuit) failure	Check the connector contact. When no fault is found, the indoor board is a failure.
5103	Gas pipe	*Sensor error at gas-side cannot be detected under the following conditions. ♦During heating operation ♦During cooling operation for 3 minutes after the compressor turns on.		
5104	(OA processing unit) Outdoor air temperature	-	(1) The connection of the connector CN29 is loose (2) OA temperature sensor failure	Check the connector contact. Replace the sensor.

Temperature sensor failure (outdoor unit)																																											
Error Code		Error definition and error detection method	Cause	Check method and remedy																																							
5101	Discharge (TH1) (TH11) (TH12)	<p>1. When a short (high temperature intake) or an open (low temperature intake) of the thermistor is detected (the first detection), the outdoor unit stops, turns to anti-restart mode for 3 minutes, and restarts when the detected temperature of the thermistor.</p> <p>2. When a short or an open is detected again (the second detection) after the first restart of the outdoor unit, the outdoor unit stops, turns to anti-restart mode for 3 minutes, and restarts in 3 minutes when the detected temperature is within the normal range.</p> <p>3. When a short or an open is detected again (the third detection) after the previous restart of the outdoor unit, the outdoor unit makes an error stop.</p> <p>4. When a short or an open of the thermistor is detected just before the restart of the outdoor unit, the outdoor unit makes an error stop, and the error code "5101", "5102", "5103", "5104", "5105", "5106", "5107", "5108", "5109" or "5112" will appear.</p> <p>5. During 3-minute anti-restart mode, preliminary errors will be displayed on the LED display.</p> <p>6. A short or an open described above is not detected for 10 minutes after the compressor start, during defrost mode, or for 3 minutes after defrost mode.</p>	(1) Thermistor failure	Check thermistor resistance.																																							
5102	Low pressure saturation (TH2)		(2) Pinched lead wire	Check whether the lead wire is pinched.																																							
5103	Liquid level detection (TH3)		(3) Torn wire coating	Check for wire coating.																																							
5104	Liquid level detection (TH4)		(4) A pin on the male connector is missing or contact failure	Check connector.																																							
5105	Piping (TH5)		(5) Disconnected wire	Check whether the wire is connected.																																							
5106	Outdoor air temperature (TH6)		(6) Thermistor input circuit failure on the main board	Check the intake temperature of the sensor with the LED monitor. When the temperature is far different from the actual temperature, replace the control board.																																							
5107	SC coil outlet (TH7)	<table border="1"> <thead> <tr> <th></th> <th>Short detection</th> <th>Open detection</th> </tr> </thead> <tbody> <tr> <td>TH1</td> <td>240 °C [464 °F] and above (0.57 kΩ)</td> <td>15 °C [59 °F] and below (321 kΩ)</td> </tr> <tr> <td>TH2</td> <td>70 °C [158 °F] and above (1.71 kΩ)</td> <td>-40 °C [-40 °F] and below (399 kΩ)</td> </tr> <tr> <td>TH3</td> <td>70 °C [158 °F] and above (1.14 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH4</td> <td>70 °C [158 °F] and above (1.14 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH5</td> <td>110 °C [230 °F] and above (0.4 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH6</td> <td>110 °C [230 °F] and above (0.4 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH7</td> <td>70 °C [158 °F] and above (1.14 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH8</td> <td>70 °C [158 °F] and above (0.4 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH9</td> <td></td> <td></td> </tr> <tr> <td>TH9a</td> <td>70 °C [158 °F] and above (1.14 kΩ)</td> <td>-40 °C [-40 °F] and below (130 kΩ)</td> </tr> <tr> <td>TH9b</td> <td></td> <td></td> </tr> <tr> <td>TH10</td> <td>240 °C [464 °F] and above (0.57 kΩ)</td> <td>-15 °C [5 °F] and below (1656 kΩ)</td> </tr> </tbody> </table>				Short detection	Open detection	TH1	240 °C [464 °F] and above (0.57 kΩ)	15 °C [59 °F] and below (321 kΩ)	TH2	70 °C [158 °F] and above (1.71 kΩ)	-40 °C [-40 °F] and below (399 kΩ)	TH3	70 °C [158 °F] and above (1.14 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH4	70 °C [158 °F] and above (1.14 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH5	110 °C [230 °F] and above (0.4 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH6	110 °C [230 °F] and above (0.4 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH7	70 °C [158 °F] and above (1.14 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH8	70 °C [158 °F] and above (0.4 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH9			TH9a	70 °C [158 °F] and above (1.14 kΩ)	-40 °C [-40 °F] and below (130 kΩ)	TH9b			TH10	240 °C [464 °F] and above (0.57 kΩ)	-15 °C [5 °F] and below (1656 kΩ)
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5112	Compressor shell temp. (TH10)																																										

Error Code		Error definition and error detection method	Cause	Check method and remedy
5110	Inverter radiator plate failure	When the heat sink temperature (THHS) 40°C [104°F] or more is detected just before or during the operation.	(1) THHS sensor failure	Check for short circuit in THHS sensor.
			(2) Contact failure	Replace THHS sensor.
			(3) INV board failure	Replace INV board.
5111	Temperature sensor failure (outdoor unit) Fan controller radiator plate (THBOX)	<p>1. If THBOX sensor detects 90°C [194°F] or more or an open (low temperature inlet), the outdoor unit stops once, turns to anti-restart mode for 3 minutes, and restart when the detected temperature of the thermistor is in the normal range.</p> <p>2. If THBOX sensor detects 90°C [194°F] or more or an open, the outdoor unit makes an error stop, and the error code "5111" will appear.</p> <p>3. During 3-minutes anti-restart mode, preliminary errors will be displayed on the LED display.</p>	(1) Triac overheat	Check the lock of the fan on the heat exchanger
			(2) Thermistor failure	Check the resistance of the thermistor
			(3) Lead wire gripping	Check the grip of the lead wire
			(4) Torn wire coating	Check the torn wire coating
			(5) A pin on the male connector is missing or contact failure	Check whether a pin on the male connector is missing.
			(6) Disconnected wire	Check whether the wire is disconnected.
			(7) Thermistor input circuit failure on the main board	Check the inlet temperature of the sensor by LED monitor. If there is a big difference between the inlet temperature and the actual temperature, replace the main board.
		Open detection -20°C [-4°F] or lower (616kohm)		

[V Troubleshooting]

Error Code		Error definition and error detection method	Cause	Check method and remedy
5201	High pressure sensor (outdoor unit)	<p>1. If the high pressure sensor detects 0.098MPa [14psi] or less during the operation, the outdoor unit stops once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes when the detected high pressure sensor is 0.098MPa [14psi] or more.</p> <p>2. If the high pressure sensor detects 0.098MPa [14psi] or less just before the restart, the outdoor unit makes an error stop, and the error code "5111" will appear.</p> <p>3. During 3-minute anti-restart mode, preliminary errors will be displayed on the LED display.</p> <p>4. A error is not detected for 3 minutes after the compressor start, during defrost operation, or 3 minutes after defrost operation.</p>	(1) High pressure sensor failure	Check the high pressure sensor.
			(2) Pressure drop due to refrigerant leak	
			(3) Torn wire coating	
			(4) A pin on the male connector is missing or contact failure	
			(5) Disconnected wire	
			(6) High pressure sensor input circuit failure on the main board	
5301	IDC sensor circuit failure	IDC 20A or more is detected or IDC 10A or less is detected after 5 seconds passed since the inverter started.	(1) Contact failure	Check the contact of the connector on the INV board.
			(2) DCCT failure DCCT negative polarity setting	When no fault is found with items shown above, replace the DCCT sensor, and check the polarity of DCCT sensor.
			(3) INV board failure	If the failure occurs after following the remedies shown above, replace the INV board.

2. Transmission error

Error Code	Error definition and error detection method	Cause	Check method and remedy
6600	<p>Address overlaps The error is detected when the same address is transmitted from different units.</p> <p>Note: The address/attribute appeared on the display on the remote controller indicates the controller where an error occurred.</p>	<p>(1) Two or more remote controllers for the outdoor units, the indoor units, LOSSNAY, and the M-NET remote controllers have the same addresses.</p> <p>(2) When the transmission data is changed due to the noise on the transmission line.</p>	<p>When 6600 error occurs, deactivate the error (stop key operation) by the remote controller and restart the unit.</p> <p>When an error occurs again in 5 minutes: → Search the unit has the same address with the error source</p> <p>When the same address is found, turn off the power of the outdoor unit, LOSSNAY and the indoor unit for 5 minutes or more after changing the address, and then turn them on it again.</p> <p>When an error does not occur after operating for 5 minutes or more: → Check the transmission wave shape/ noise.</p>

Error Code	Error definition and error detection method	Check method and remedy
6602	<p>Transmission processor hardware error</p> <p>Although "0" was surely transmitted by the transmission processor, "1" is displayed on the transmission line.</p> <p>The address/attribute appeared on the display on the remote controller indicates the controller where an error occurred.</p>	<p>(1) When the wiring work of or the polarity of either the indoor or outdoor transmission line is performed or is changed while the power is on, the transmitted data will collide, the wave shape will be changed, and an error will be detected.</p> <p>(2) When the indoor unit is connected to the 100V power supply</p> <p>(3) Grounding fault of the transmission line</p> <p>(4) When grouping the indoor units that are connected to different outdoor units, the male power supply connectors on the multiple outdoor units are connected to the female power supply switch connector (CN40).</p> <p>(5) When the power supply unit for transmission lines is used in the system connected with MELANS, the male power supply connector is connected to the female power supply switch connector (CN40) on the outdoor unit.</p> <p>(6) Controller failure of the source of the error</p> <p>(7) When the transmission data is changed due to the noise on the transmission line</p> <p>(8) Voltage is not applied on the transmission line for centralized control (in case of grouped indoor units connected to different outdoor units or in case of the system connected with MELANS)</p> <p>Check method and remedy</p>

[V Troubleshooting]

Error Code	Error definition and error detection method	Cause	Check method and remedy
6603	<p>Transmission circuit bus-busy</p> <p>1. Generated error when the command cannot be transmitted for 4-10 minutes in a row due to bus-busy</p> <p>2. Generated error when the command cannot be transmitted to the transmission line for 4-10 minutes in a row due to noise</p> <p>Note: The address/attribute appeared on the display on the remote controller indicates the controller where an error occurred.</p>	<p>(1) The transmission processor cannot be transmitted as the short-wavelength voltage like noise exists consecutively on the transmission line.</p> <p>(2) Error source controller failure</p>	<p>No noise indicates that the error source controller is a failure.</p> <p>If noise exists, investigate the noise.</p> <p>→ No noise indicates that the error source controller is a failure.</p> <p>→ If noise exists, investigate the noise.</p>
6606	<p>Communication error with the transmission processor</p> <p>Communication error between the main microcomputer on the indoor unit board and the microcomputer for transmission</p> <p>Note: The address/attribute appeared on the display on the remote controller indicates the controller where an error occurred.</p>	<p>(1) Data is not properly transmitted due to accidental erroneous operation of the controller of the error source.</p> <p>(2) Error source controller failure</p>	<p>Turn off the power source of the outdoor and the indoor units.(When the power source is turned off separately, the microcomputer will not be reset, and the error will not be corrected.)</p> <p>→ If the same error occurs, the error source controller is a failure.</p>

(1) System with one outdoor unit

Error Code	Error definition and error detection method			
6607	No ACK abnormality	The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.) Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).		
Error source address	Error display	Detection method	Cause	Check method and remedy
Outdoor unit (OC)	Network remote controller (NR) Unit remote controller (UR)	No acknowledgement (ACK) at IC transmission to OC	(1) Contact failure of transmission line of OC or IC (2) Decrease of transmission line voltage/signal by exceeding acceptable range of transmission wiring . Farthest: 200 m [656ft] or less Remote controller wiring: 10m [656ft] or less (3) Erroneous sizing of transmission line (Not within the range below). Wire diameter: 1.25mm ² [AWG16] or more (4) Indoor unit main board failure	Turn off the power source of the outdoor unit, and turn it on again. If the error is accidental, it will run normally. If not, check the causes (1) - (4).
Indoor unit (IC)	Network remote controller (NR) Unit remote controller (UR)	No acknowledgement (ACK) at NR transmission to IC	(1) When IC unit address is changed or modified during operation. (2) Faulty or disconnected IC transmission wiring (3) Disconnected IC connector (CN2M) (4) Indoor unit board failure (5) M-NET remote controller failure	Turn off the outdoor/indoor units for 5 or more minutes, and turn them on again. If the error is accidental, they will run normally. If not, check the causes (1) - (5).
LOSSNAY (LC)	Network remote controller (NR) Unit remote controller (UR)	No acknowledgement (ACK) at IC transmission to LC	(1) The power source of LOSSNAY has been shut off. (2) When the address of LOSSNAY is changed in the middle of the operation (3) Faulty or disconnected transmission wiring of LOSSNAY (4) Disconnected connector (CN1) on LOSSNAY (5) Controller failure of LOSSNAY	Turn off the power source of LOSSNAY and turn it on again. If the error is accidental, it will run normally. If not, check the causes (1) - (5).
Network remote controller(RC)	Network remote controller (NR)	No acknowledgement (ACK) at IC transmission to NR	(1) Faulty transmission wiring at IC unit side. (2) Faulty wiring of the transmission line for Network remote controller (3) When the address of Network remote controller is changed in the middle of the operation (4) Network remote controller failure	Turn off the power source of the outdoor unit for 5 minutes or more, and turn it on again. If the error is accidental, it will run normally. If not, check the causes (1) - (4).

(2) Grouping of units in a system with multiple outdoor units

Error Code	Error definition and error detection method			
6607 (Continued)	No ACK abnormality	The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.) Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).		
Error source address	Error display	Detection method	Cause	Check method and remedy
Outdoor unit (OC)	Network remote controller (NR)	No acknowledgement (ACK) at IC transmission to OC	Same cause as that for system with one outdoor unit	Same remedy as that for system with one outdoor unit
Indoor unit (IC)	Network remote controller (NR)	No acknowledgement (ACK) at NR transmission to IC	<p>(1) Same causes as (1) - (5) for system with one outdoor unit</p> <p>(2) Disconnection or short circuit of the transmission line for the outdoor unit on the terminal block for centralized control line connection (TB7)</p> <p>(3) When multiple outdoor units are connected and the power source of one of the outdoor units has been shut off.</p> <p>(4) The male power supply connector of the outdoor unit is not connected to the female power supply switch connector (CN40).</p> <p>(5) The male power supply connectors on 2 or more outdoor units are connected to the female power supply switch connector (CN40) for centralized control.</p> <p>If an error occurs, after the unit runs normally once, the following causes may be considered.</p> <ul style="list-style-type: none"> •Total capacity error (7100) •Capacity code error (7101) •Error in the number of connected units (7102) •Address setting error (7105) 	<p>1) Turn off the power sources of the outdoor and indoor units for 5 or more minutes, and turn them on again. If the error is accidental, the will run normally.If not, check the cause 2).</p> <p>2) Check the causes of (1) - (5). If the cause is found, correct it. If no cause is found, check 3).</p> <p>3) Check the LED displays for troubleshooting on other remote controllers whether an error occurs.</p> <p>If an error is found, → If an error is found, check the check code definition, and correct the error. If no error is found, → Indoor unit board failure</p>
LOSSNAY (LC)	Network remote controller (NR)	No acknowledgement (ACK) at IC transmission to LC	<p>(1) Same causes as (1) - (5) for system with one outdoor unit (Interlocked operation between LOSSNAY and the indoor units in the system in which the indoor units connected to different outdoor units are grouped)</p> <p>(2) Disconnection or short circuit of the transmission line for the outdoor unit on the terminal block for centralized control line connection (TB7)</p> <p>(3) When multiple outdoor units are connected and the power source of one of the outdoor units has been shut off.</p> <p>(4) The male power supply connector of the outdoor unit is not connected to the female power supply switch connector (CN40).</p> <p>(5) The male power supply connectors on 2 or more outdoor units are connected to the female power supply switch connector (CN40) for centralized control.</p> <p>If an error occurs, after the unit runs normally once, the following causes may be considered.</p> <ul style="list-style-type: none"> •Total capacity error (7100) •Capacity code error (7101) •Error in the number of connected units (7102) •Address setting error (7105) 	<p>1) Turn off the power source of LOSSNAY for 5 or more minutes, and turn it on again. If the error is accidental, it will run normally.If not, check the cause 2).</p> <p>2) Check the causes of (1) - (5). If the cause is found, correct it. If no cause is found, check 3).</p> <p>3) Same cause as that for indoor unit described in 3)</p>

(2) Grouping of units in a system with multiple outdoor units

Error Code	Error definition and error detection method	
6607 (Continued)	No ACK abnormality	The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.) Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).

Error source address	Error display	Detection method	Cause	Check method and remedy
Network remote controller (NR)	Network remote controller (NR)	No acknowledgement (ACK) at IC transmission to NR	<p>(1) Same causes as (1) - (4) for system with one outdoor unit</p> <p>(2) Disconnection or short circuit of the transmission line for the outdoor unit on the terminal block for centralized control line connection (TB7)</p> <p>(3) When multiple outdoor units are connected and the power source of one of the outdoor units has been shut off.</p> <p>(4) The male power supply connector of the outdoor unit is not connected to the female power supply switch connector (CN40).</p> <p>(5) The male power supply connectors on 2 or more outdoor units are connected to the female power supply switch connector (CN40) for centralized control.</p> <p>If an error occurs, after the unit runs normally once, the following causes may be considered.</p> <ul style="list-style-type: none"> ◆ Total capacity error (7100) ◆ Capacity code error (7101) ◆ Error in the number of connected units (7102) ◆ Address setting error (7105) 	<p>1) Turn off the power source of the outdoor unit for 5 or more minutes, and turn it on again. If the error is accidental, it will run normally. If not, check the cause 2).</p> <p>2) Check the causes of (1) - (5). If the cause is found, correct it. If no cause is found, check 3).</p> <p>3) Same cause as that for indoor unit described in 3)</p>

(3) System connected to the system controllers (MELANS)

Error Code	Error definition and error detection method			
6607 (Continued)	No ACK abnormality	The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.) Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).		
Error source address	Error display	Detection method	Cause	Check method and remedy
Outdoor unit (OC)	Network remote controller (NR) system controller (SC)	No acknowledgement (ACK) at IC transmission to OC	Same cause as that for system with one outdoor unit	Same remedy as that for system with one outdoor unit
Indoor unit (IC)	Network remote controller (NR)	No acknowledgement (ACK) at NR transmission to IC	Same as grouping of units in a system with multiple outdoor units	Same remedy as that for grouping of units in a system with multiple outdoor units
	system controller (SC)	No acknowledgement (ACK) at SC transmission to IC	1. Error occurrence on some IC (1) Same cause as that for system with one outdoor unit	Same remedy as that for system with one outdoor unit
			2. Error occurrence on all IC in the system with one outdoor unit (1) Total capacity error (7100) (2) Capacity code error (7101) (3) Error in the number of connected units (7102) (4) Address setting error (7105) (5) Disconnection or short circuit of the transmission line for the outdoor unit on the terminal block for centralized control line connection (TB7) (6) Turn off the power source of the outdoor unit (7) Malfunction of electrical system for the outdoor unit	1) Check the LED display for troubleshooting on the outdoor unit. →If an error is found, check the check code definition, and correct the error. →If no error is found, check 2). 2) Check (5) - (7) on the left.
3. Error occurrence on all IC (1) Same causes as (1) - (7) described in 2. (2) The male power supply connectors on 2 or more outdoor units are connected to the female power supply switch connector (CN40) for the transmission line for centralized control. (3) Disconnection or shutdown of the power source of the power supply unit for transmission line (4) System controller (MELANS) malfunction	Check voltage of the transmission line for centralized control. 20V or more : Check (1) and (2) on the left. Less than 20V : Check (3) on the left.			

Error Code	Error definition and error detection method	
6607 (Continued)	No ACK abnormality	The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.) Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).

Error source address	Error display	Detection method	Cause	Check method and remedy
Network remote controller (NR)	Network remote controller (NR) System controller (SC)	No acknowledgement (ACK) at IC transmission to NR	Same as grouping of units in a system with multiple outdoor units	Same remedy as that for grouping of units in a system with multiple outdoor units
			1. Error occurrence on some IC (1) Same cause as that for system with one outdoor unit	Same remedy as that for system with one outdoor unit
				2. Error occurrence on all IC in the system with one outdoor unit (1) An error is found by the outdoor unit. Total capacity error (7100) Capacity code error (7101) Error in the number of connected units (7102) Address setting error (7105) (2) Disconnection or short circuit of the transmission line for the outdoor unit on the terminal block for centralized control line connection (TB7) (3) Turn off the power source of the outdoor unit (4) Malfunction of electrical system for the outdoor unit
3. Error occurrence on all IC (1) Same causes as (1) - (4) described in 2. (2) When the power supply unit for transmission lines is used and the male power supply connector is connected to the female power supply switch connector (CN40) for the transmission line for centralized control (3) Disconnection or shutdown of the power source of the power supply unit for transmission line (4) System controller (MELANS) malfunction	Check (1) - (4) on the left.			

(3) System connected to the system controllers (MELANS)

Error Code	Error definition and error detection method			
6607 (Continued)	No ACK abnormality	<p>The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.)</p> <p>Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).</p>		
Error source address	Error display	Detection method	Cause	Check method and remedy
system controller (SC)	Network remote controller (NR)	No acknowledgement (ACK) at IC transmission to SC	<p>1. Error display on some displays on network remote controllers</p> <p>(1) Faulty wiring of the transmission line for network remote controller</p> <p>(2) Disconnection or contact failure of the transmission connector for network remote controller</p> <p>(3) network remote controller failure</p>	Check (1) - (3) on the left.
			<p>2. Error occurrence on all IC in the system with one outdoor unit</p> <p>(1) An error is found by the outdoor unit.</p> <p>Total capacity error (7100)</p> <p>Capacity code error (7101)</p> <p>Error in the number of connected units (7102)</p> <p>Address setting error (7105)</p> <p>(2) Disconnection or short circuit of the transmission line for the outdoor unit on the terminal block for centralized control line connection (TB7)</p> <p>(3) Turn off the power source of the outdoor unit</p> <p>(4) Malfunction of electrical system for the outdoor unit</p>	<p>1) Check the LED display for troubleshooting on the outdoor unit.</p> <p>→ If an error is found, check the check code definition, and correct the error.</p> <p>→ If no error is found, check the cause 2)</p> <p>2) Check (2) - (4) on the left.</p>
			<p>3. Error display on all displays on network remote controllers</p> <p>(1) Same causes as (1) - (4) described in 2.</p> <p>(2) When the power supply unit for transmission lines is used and the male power supply connector is connected to the female power supply switch connector (CN40) for the transmission line for centralized control</p> <p>(3) Disconnection or shutdown of the power source of the power supply unit for transmission line</p> <p>(4) System controller (MELANS) malfunction</p>	Check (1) - (4) on the left

(4) Errors that are not limited to a particular system

Error Code	Error definition and error detection method	
6607 (Continued)	No ACK abnormality	The error is detected when no acknowledgement (ACK signal) is received after the transmission. (eg. When the data is transmitted six times in a row with 30 seconds interval, the error is detected on the transmission side.) Note: The address/attribute appeared on the display on the remote controller indicates the controller which did not provide the response (ACK).

Error source address	Error display	Detection method	Cause	Check method and remedy
Address which should not be existed	-	-	<p>(1) Although the address of network remote controller has been changed after the group is set using network remote controller, the indoor unit is keeping the memory of the previous address. The same symptom will appear for the registration with SC.</p> <p>(2) Although the address of LOSSNAY has been changed after the interlock registration of LOSSNAY is made using network remote controller, the indoor unit is keeping the memory of the previous address.</p>	<p>Delete unnecessary information of non-existing address which some indoor units have.</p> <p>Use either of the following two methods for deletion.</p> <p>1) Address deletion by network remote controller Delete unnecessary address information using the manual setting function of network remote controller.</p> <p>2) Deletion of connection information of the outdoor unit by the deleting switch</p> <p>Note that this switch deletes all the group information set via network remote controller and all the interlock information of LOSSNAY and the indoor unit.</p> <ul style="list-style-type: none"> ♦Turn off the power source of the outdoor unit, and wait for 5 minutes. ♦Turn on the dip switch (SW2-2) on the outdoor unit main board. ♦Turn on the power source of the outdoor unit, and wait for 5 minutes. ♦Turn off the power source of the outdoor unit, and wait for 5 minutes. ♦Turn off the dip switch (SW2-2) on the outdoor unit main board. ♦Turn on the power source of the outdoor unit.

Error Code	Error definition and error detection method	Cause	Check method and remedy
6608	<p>No response When no response command is returned although acknowledgement (ACK) is received after transmission, an error is detected. When the data is transmitted 10 times in a row with 3 seconds interval, an error is detected on the transmission side.</p> <p>Note: The address/attribute appeared on the display on the remote controller indicates the controller where an error occurred.</p>	<p>(1) The transmission line work is performed or the polarity is changed while the power is on, the transmitted data will collide, and the wave shape will be changed. (2) The transmission is sent and received repeatedly due to noise. (3) Decrease of transmission line voltage/signal by exceeding acceptable range of transmission wiring. Farthest : 200m [656ft] or less Remote controller wiring: 12m [39ft] or less (4) The transmission line voltage/signal is decreased due to erroneous sizing of transmission line. Wire diameter: 1.25mm² [AWG16] or more</p>	<p>1) When an error occurs at commissioning Turn off the power source of the outdoor unit, indoor unit, and LOSSNAY for 5 or more minutes, and turn them on again. → When they return to normal operation, the cause of the error is the transmission line work performed with the power on. → If an error occurs again, check the cause 2). 2) Check (3) and (4) on the left. → If the cause is found, correct it. → If no cause is found, check 3). 3) Check transmission wave shape/noise on transmission line by following <Investigation method of transmission wave shape/noise>.</p> <p>Noise is the most possible cause of the error "6602".</p>
6810	<p>UR communication error (UR: unit remote controller) The communication between the unit remote controller and the indoor unit does not work properly. (1) The address and the attribute for the remote controller are not displayed. [Detect by the unit remote controller] 1) An error is detected when the remote controller send "H", the unit remote controller detects "L" reception for the third time in the low. 2) An error is detected when the indoor unit sends no response for the demand of the "Monitor request" by the remote controller. 3) An error is detected when the indoor unit sends no response for the third time in the low for the demand of the "Control/Settings" by the remote controller. (2) Displayed address and the attribute are for the indoor unit 1) An error is detected when the remote controller send "H", the unit remote controller detects "L" reception for the third time in the low. 2) An error is detected when the indoor unit can not be received the demand by the remote controller.</p>	<p>(1) Loose connection in the unit remote controller or the unit remote controller transmission line of the indoor (2) Decrease of transmission line voltage/signal by exceeding acceptable range of transmission wiring. (3) When the transmission data is changed due to the noise on the transmission line of the remote controller. (4) The transmitter-receiver circuit of the unit remote controller or the indoor unit remote controller failure</p>	<p>1) Check whether the transmission line of the indoor unit or the unit remote controller is blown or come loose. 2) Check whether the transmission line exceeds its acceptable range. 3) Check the transmission wave shape/noise. For the investigation method, follow the manual Investigation method of transmission wave shape/noise 4) If (1) - (3) shown above have no faults, replace the indoor controller board or the unit remote controller. The status shown below can be checked by LED1 and LED2 on the indoor controller board. → LED1 and LED2 blink simultaneously The indoor unit is sending signals to the unit remote controller → Only LED2 blinks The unit remote controller is sending signals to the indoor unit, or other indoor units are sending signals to the unit remote controller. → LED1 and LED2 does not blink The indoor unit and the unit remote controller are not sending signals.</p>

3. System error

Error Code	Error source	Error definition and error detection method	Cause	Check method and remedy											
7100	Outdoor unit	Total capacity error The model total of indoor units in the system with one outdoor unit exceeds limitations.	(1) The model total of indoor units in the system with one outdoor unit exceeds the following table.	1) Check the model total (capacity code total) of indoor units connected. 2) Check the model name (capacity code) of the connected indoor unit set by the switch (SW2 on indoor unit board). When the model name set by the switch is different from that of the unit connected, turn off the power source of the outdoor and the indoor units, and change the setting of the model name (capacity code).											
			<table border="1"> <thead> <tr> <th>Model</th> <th>Capacity Total</th> </tr> </thead> <tbody> <tr> <td>PUHY-P200</td> <td>260</td> </tr> <tr> <td>PUHY-P250</td> <td>325</td> </tr> </tbody> </table>		Model	Capacity Total	PUHY-P200	260	PUHY-P250	325					
Model	Capacity Total														
PUHY-P200	260														
PUHY-P250	325														
			(2) The switch settings for the model selection of the outdoor unit are wrong. SW3-9, 3-10, 4-4	Check the switch for the model selection (The DIP switch on the outdoor main board, refer to the list shown below.)											
				<table border="1"> <thead> <tr> <th>SW3-9</th> <th>SW3-10</th> <th>SW4-4</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td rowspan="2">OFF</td> <td>OFF</td> <td>OFF</td> <td>P200</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>P250</td> </tr> </tbody> </table>	SW3-9	SW3-10	SW4-4	Model	OFF	OFF	OFF	P200	ON	OFF	P250
SW3-9	SW3-10	SW4-4	Model												
OFF	OFF	OFF	P200												
	ON	OFF	P250												
7101	Outdoor unit Indoor unit	Capacity code error The model name (capacity code) of the connected indoor unit connected is inappropriate.	(1) The indoor unit models (model code) to be connected is in the connection disabled range. Enabled range connection P20-P250 (P200,P250 models)	1) Check the models (model code) to be connected to the indoor unit.											
			(2) The model name (capacity code) set by the switch (SW2) is wrong.	2) Check the model name (capacity code) of the indoor unit which has the error source address set by the switch (SW2 on indoor unit board). When the model name set by the switch is different from that of the unit connected, turn off the power source of the outdoor and the indoor units, and change the setting of the capacity code.											
			*The capacity of the indoor unit can be confirmed by the self-diagnosis function (SW1 operation) of the outdoor unit.												

Error Code	Error source	Error definition and error detection method	Cause	Check method and remedy						
7102	Outdoor unit	<p>Error in the number of connected units</p> <p>The number of connected indoor units exceeds the allowable value.</p>	<p>(1) Number of indoor units connected to the outdoor terminal block (TB3) for indoor/outdoor transmission lines exceeds limitations described below.</p> <table border="1"> <thead> <tr> <th>Number of units</th> <th>Restriction on the number of units</th> </tr> </thead> <tbody> <tr> <td>1) Total number of indoor units</td> <td>1-13 : P220 model 1-16 : P250 models</td> </tr> <tr> <td>2) Total number of LOSSNAY units (During auto address start-up only)</td> <td>0 or 1</td> </tr> </tbody> </table> <p>(2) The address of outdoor unit is set to 51-100 when it is the auto address (unit remote controller). "HO" will be displayed on the unit remote controller.</p> <p>(3) Disconnected transmission line of the outdoor unit</p> <p>(4) Short-circuited transmission line</p> <p>When (3) and (4) apply, the following display will appear.</p> <ul style="list-style-type: none"> •In case of network remote controller → Nothing appears on the display as no power is supplied to the remote controller. •In the case of Unit remote controller → "HO" will blink. 	Number of units	Restriction on the number of units	1) Total number of indoor units	1-13 : P220 model 1-16 : P250 models	2) Total number of LOSSNAY units (During auto address start-up only)	0 or 1	<p>1) Check whether the number of units connected to the outdoor terminal block (TB3) for indoor/outdoor transmission lines does not exceed the limitation. (See (1) and (2) on the left.)</p> <p>2) Check (2) - (3) on the left.</p> <p>3) Check whether the transmission line for the terminal block for centralized control (TB7) is not connected to the terminal block for the indoor/outdoor transmission line (TB3).</p>
Number of units	Restriction on the number of units									
1) Total number of indoor units	1-13 : P220 model 1-16 : P250 models									
2) Total number of LOSSNAY units (During auto address start-up only)	0 or 1									
7105	Outdoor unit	<p>Address setting error</p> <p>Erroneous setting of OC unit address</p>	<p>Erroneous setting of OC unit address</p> <p>The address of outdoor unit is not being set to 51 - 100.</p>	<p>1) Check that the address of OC unit is set to 51- 100. Reset the address if it stays out of the range, while shutting the power source off.</p>						
7110		<p>The indoor unit is not operated because it is connected to the wrong outdoor unit using unsupported refrigerant series to the indoor unit.</p>	<p>(1) The power-off of the power supply extension unit for the transmission line</p> <p>(2) The reset of the power supply of power supply extension unit for the transmission line and the outdoor unit</p>	<p>1) Check whether the power supply extension unit for the transmission line is connected to the switch of the indoor unit and is not powered-off. (If the power supply of the power supply extension unit for the transmission line is not turned on, it does not work properly. Reset the power supply of the outdoor unit, if needed.)</p>						
7111	Indoor unit OA processing unit	<p>Remote controller sensor failure</p> <p>This error occurs when the temperature data is not sent although the remote controller sensor is specified.</p>	<p>The remote controller without the temperature sensor (the wireless remote controller or the M-NET compact remote controller (mounted type)) is used and the remote controller sensor for the indoor unit is specified. (SW1-1 is ON.)</p>	<p>Replace the remote controller with the one with built-in temperature sensor.</p>						
7130	Indoor unit	<p>Incompatible units</p> <p>The check code will appear when the indoor units with different refrigerant systems are connected.</p>	<p>The indoor unit that uses only R22 refrigerant is connected.</p> <p>The wrong unit model is connected.</p>	<p>Check the connected indoor unit model.</p>						

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