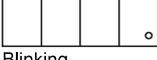
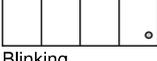
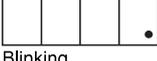
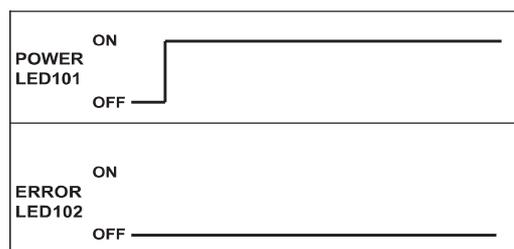
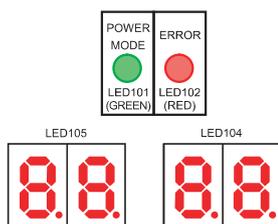


4-1-2 OUTDOOR UNIT DISPLAY

Indication type	7 Segment LED Pattern	Description
Idling(stop)	 Blank	
Cooling Mode	 "C" "O" "L"	
Heating Mode	 "H" "E" "A" "T"	
Oil Recovery Operation	 "O" "I" "L" "R" "E" "C" "O" "V" "E" "R" "Y"	Refer to 02-10 page for operation.
Defrost Operation	 "D" "E" "F" "R" "O" "S" "T"	Refer to 02-11 page for operation.
Discharge Temp. Protection is stopped	 "P" "R" "O" "T" "E" "C" "T" "1"	<Starting condition> Discharge temp \geq fixed value (INV:110°C, constant speed:115°C) <Release condition> 3 minutes have elapsed and discharge temperature \leq 80°C
High Pressure Protection is stopped	 "P" "R" "O" "T" "E" "C" "T" "2"	<Starting condition> High pressure \geq 4.00MPa <Release condition> 5 minutes have elapsed and high pressure \leq 3.50MPa
Low Pressure Protection is stopped	 "P" "R" "O" "T" "E" "C" "T" "3"	<Starting condition> Low pressure \leq 0.05MPa or low pressure \leq 0.10MPa continues for 10 mins <Release condition> 3 minutes have elapsed and low pressure \geq 0.17MPa
Compressor Temperature Protection is stopped	 "P" "R" "O" "T" "E" "C" "T" "4"	<Starting condition> Compressor temp \geq fixed value (INV:112°C, Constant speed:120°C) <Release condition> 3 minutes have elapsed and discharge temperature \leq 80°C
Peak Cut Mode	 "P" "e" "a" "k" "C" "u" "t"	
Low Noise Mode	 "L" "O" "W" "N" "O" "I" "S" "E"	Refer to 02-08 page for operation.
Snow Falling Protection Fan mode	 "S" "N" "O" "W"	Refer to 02-09 page for operation.
Inverter Compressor Operation Indication	 Blinking	ON  OFF
Constant Speed Compressor Operation Indication	 Blinking	ON  OFF
Inverter Compressor and Constant Speed Compressor Operation Indication	 Blinking	ON  OFF



4-2 ABNORMAL OPERATION

4-2-1 Indoor Unit Display

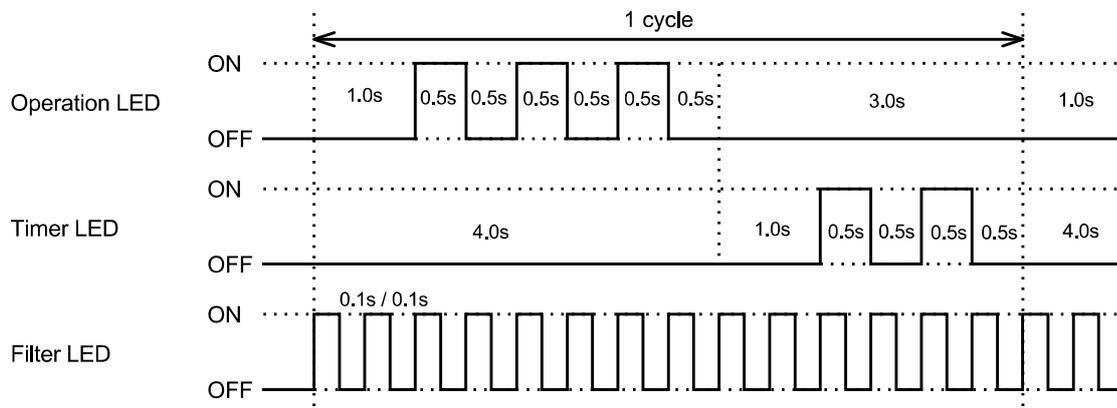
Please refer the flashing pattern as follows.

Error Contents	Operation LED	Timer LED	Filter LED	Trouble shooting
Remote Controller Communication Error	1 times flash	2 times flash	Continuous flash	9,10
Network Communication Error	1 times flash	4 times flash	Continuous flash	12
Indoor Unit Parallel Communication Error	1 times flash	6 times flash	Continuous flash	11
Indoor Unit Power Frequency Abnormal	3 times flash	1 times flash	Continuous flash	2
Indoor Unit Main PCB Error	3 times flash	2 times flash	Continuous flash	1,3
Room Temperature Sensor Error	4 times flash	1 times flash	Continuous flash	4
Indoor Unit Heat Ex. Sensor Error	4 times flash	2 times flash	Continuous flash	5,6
Indoor Unit Fan Motor Error	5 times flash	1 times flash	Continuous flash	8
Water Drain Abnormal	5 times flash	3 times flash	Continuous flash	7
Outdoor Unit Error	9 times flash	15 times flash	Continuous flash	13 ~ 62

Depending on contents of Outdoor unit, it may not indicate. (Refer to "TROUBLE LEVEL OF SYSTEM")

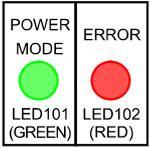
Error Indication Flashing Pattern

Example : Indoor Unit Main PCB Error (Operation LED : 3 times, Timer LED : 2 times)

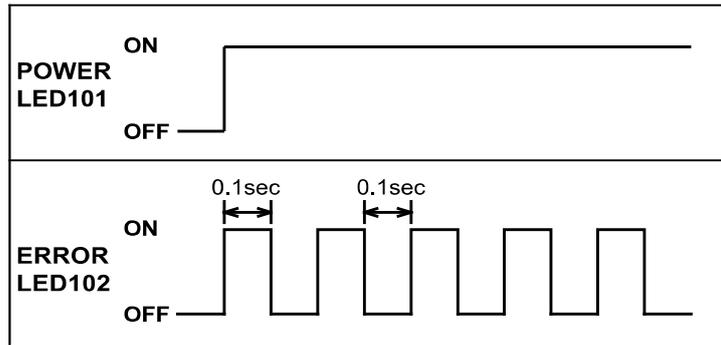


4-2-2 Outdoor Unit Display

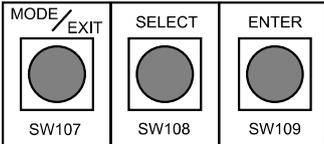
LED display



POWER MODE LED : on
ERROR LED : blink

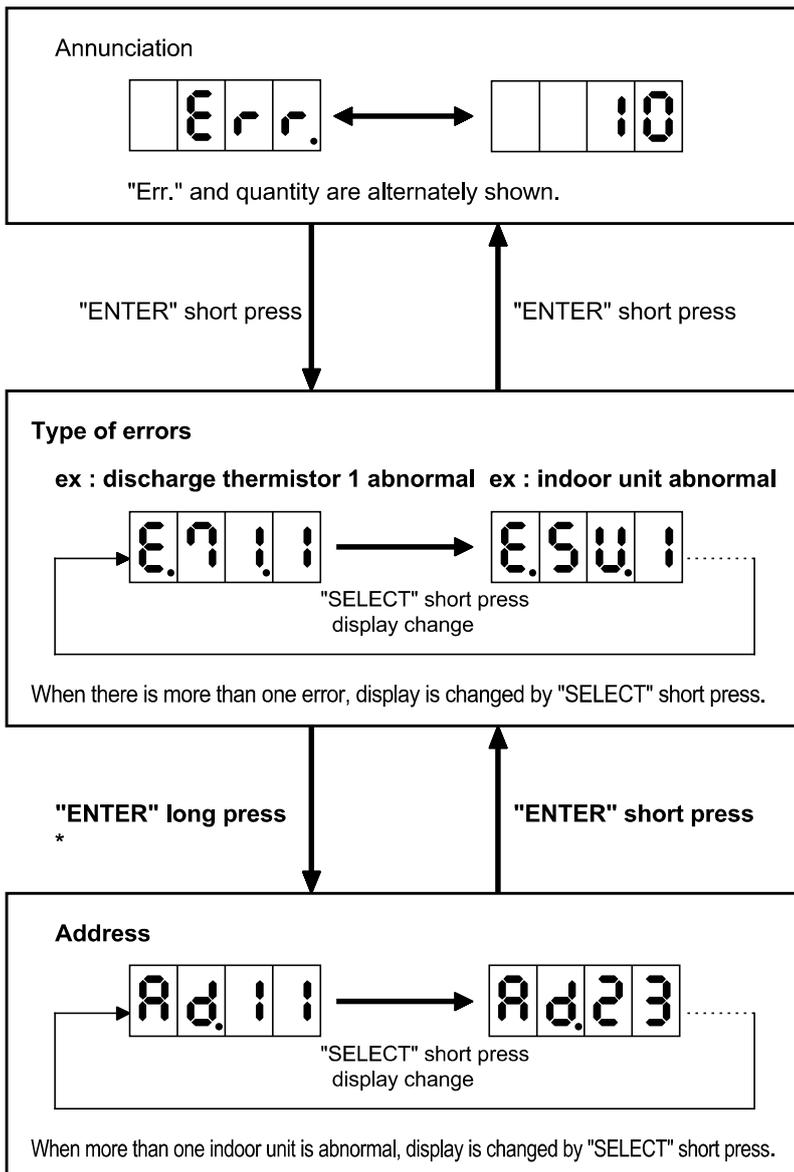


Operation button



ERROR transition

Short press : less than 3 seconds
Long press : more than 3 seconds



If some error is newly occurred or resolved during transition, it is reflected after going back to "Annunciation".

* Only in the case of "indoor unit abnormal (E.5U.1)", indoor unit address is shown by ENTER long press.

4-2-3 Error Code List for Outdoor Unit

Error Code	Error Contents	Trouble shooting
- - - -	Initial Setting Error	13
1 3 . 1	Communication Error Between Outdoor Unit	14
1 4 . 1	Outdoor Unit Network communication 1 Error	15
1 4 . 2	Outdoor Unit Network communication 2 Error	16
2 8 . 1	Auto Address Setting Error	61
2 8 . 4	Signal Amplifier Auto Address Setting Error	62
5 U . 1	Indoor Unit Error	1 ~ 12
6 1 . 5	Outdoor Unit Reverse Phase, Missing Phase Wire Error	17
6 2 . 3	Outdoor Unit EEPROM Access Error	18
6 2 . 6	Inverter Communication Error	19
6 2 . 8	Outdoor Unit EEPROM Data Error	20
6 3 . 1	Inverter Error	21
6 7 . 2	Inverter PCB Momentary Power Failure Detection	22
6 8 . 1	Magnetic Relay Error	23
6 8 . 2	Rush Current Limiting Resistor Temp Rise Protection	24
6 9 . 1	Outdoor Unit Communication PCB Parallel Communication Error	25
7 1 . 1	Discharge Temp Sensor 1 Error	26
7 1 . 2	Discharge Temp Sensor 2 Error	27
7 2 . 1	Compressor Temp Sensor 1 Error	28
7 2 . 2	Compressor Temp Sensor 2 Error	29
7 3 . 3	Outdoor Unit Heat Ex. Liquid Temp. Sensor Error	30
7 4 . 1	Outdoor Temp Sensor Error	31
7 5 . 1	Suction Gas Temp Sensor Error	32
7 7 . 1	Heat Sink Temp Sensor Error	33
8 2 . 1	Sub-cool Heat Ex. Gas Inlet Temp. Sensor Error	34
8 2 . 2	Sub-cool Heat Ex. Gas Outlet Temp. Sensor Error	35
8 3 . 1	Liquid Pipe Temp. Sensor 1 Error	36
8 3 . 2	Liquid Pipe Temp. Sensor 2 Error	37
8 4 . 1	Current Sensor 1 Error	38
8 6 . 1	Discharge Pressure Sensor Error	39

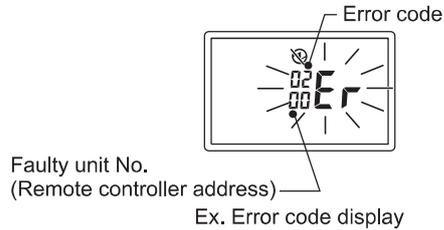
Error Code	Error Contents	Trouble shooting
8 6 . 3	Suction Pressure Sensor Error	40
8 6 . 4	High Pressure Switch 1 Error	41
8 6 . 5	High Pressure Switch 2 Error	42
9 2 . 1	Compressor 2 Error	43
9 2 . 2	Compressor 2 Current Value Error	44
9 3 . 1	Inverter Compressor Start Up Error	45
9 4 . 1	Trip Detection	46
9 5 . 5	Compressor Motor Loss of Synchronization	47
9 7 . 1	Outdoor Unit Fan Motor Lock Error	48
9 7 . 4	Outdoor Unit Fan Motor Undervoltage	49
9 7 . 5	Outdoor Unit Fan Motor Temperature Abnormal	50
9 U . 2	Slave Unit Error	51
A 1 . 1	Discharge Temperature 1 Abnormal	52
A 2 . 1	Discharge Temperature 2 Abnormal	53
A 3 . 1	Compressor 1 Temperature Abnormal	54
A 3 . 2	Compressor 2 Temperature Abnormal	55
A 4 . 1	High Pressure Abnormal	56
A 4 . 2	High Pressure Protection 1	57
A 4 . 3	High Pressure Protection 2	58
A 5 . 1	Low Pressure Abnormal	59
A C . 4	Heat Sink Temperature Abnormal	60

4-2-4 Remote Controller Display

<< SIMPLE REMOTE CONTROLLER >>

ERROR CODE DISPLAY

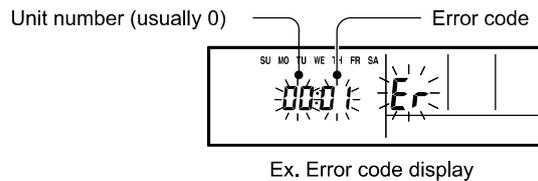
If an error occurs, the following display will be shown.
 ("Er" will appear in the set room temperature display.)
 If "Er" is displayed, immediately contact authorized service personnel.



<< WIRED REMOTE CONTROLLER >>

ERROR CODE DISPLAY

If an error occurs, the following display will be shown.
 ("Er" will appear in the set room temperature display.)
 If "Er" is displayed, immediately contact authorized service personnel.

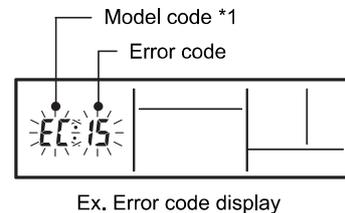


<< GROUP REMOTE CONTROLLER >>

ERROR CODE DISPLAY

The air conditioning system must be inspected if "E : " (error code) appears on the timer and Clock Display, or the operation lamp is flashing.

*1 ; Model code
 O : Outdoor unit
 I : Indoor unit
 G : Group remote controller
 R : Converter



4-2-5 Error Code List for Simple and Wired Remote Controller

Error Code	Error Contents	Trouble shooting
1 2	Remote Controller Communication Error	9, 10, 97
1 4	Network Communication Error	12
1 5	Scan Error	98
1 6	Indoor Unit Parallel Communication Error	11
3 1	Indoor Unit Power Frequency Abnormal	2
3 2	Indoor Unit Main PCB Error	1, 3

Error Code	Error Contents	Trouble shooting
4 1	Room Temperature Sensor Error	4
4 2	Indoor Unit Heat Ex. Sensor Error	5, 6
5 1	Indoor Unit Fan Motor Error	8
5 3	Water Drain Abnormal	7
9 U	Outdoor Unit Error	14 ~ 62

4-2-6 Error Code List for Group Remote Controller

Error Code	Error Contents	Trouble shooting
- -	Initial Setting Error	13
1 2	Remote Controller Communication Error	7,9,10,86,92
1 3	Communication Error Between Outdoor Unit	14
1 4	Network Communication Error	12,15,16,95
1 5	Scan Error	92
1 6	Indoor Unit Parallel Communication Error	11,89
2 6	Address Setting Error	90
2 8	Other Setting Error	61, 62, 91
3 1	Indoor Unit Power Frequency Abnormal	2
3 2	Indoor Unit Main PCB Error	1, 3
4 1	Room Temperature Sensor Error	4
4 2	Indoor Unit Heat Ex. Sensor Error	5, 6
5 1	Indoor Unit Fan Motor Error	8
5 3	Water Drain Abnormal	7
6 1	Outdoor Unit Reverse Phase, Missing Phase Wire Error	17
6 2	Outdoor Unit Main PCB Error	18 ~ 20
6 3	Inverter Error	21
6 7	Inverter PCB Momentary Power Failure Detection	22
6 8	Magnetic Relay Error	23, 24
6 9	Outdoor Unit Communication PCB Error	25
7 1	Discharge Temperature Sensor Error	26, 27
7 2	Compressor Temperature Sensor Error	28, 29
7 3	Outdoor Unit Heat Ex. Temperature Sensor Error	30
7 4	Outdoor Temperature Sensor Error	31
7 5	Suction Gas Temperature Sensor Error	32
7 7	Heat Sink Temperature Sensor Error	33

Error Code	Error Contents	Trouble shooting
8 2	Sub-cool Heat Ex. Gas Temperature Sensor Error	34, 35
8 3	Liquid Pipe Temperature Sensor Error	36, 37
8 4	Current Sensor Error	38
8 6	Pressure Sensor Error	39 ~ 42
9 2	Compressor 2 Error	43, 44
9 3	Compressor Start Up Error	45
9 4	Trip Detection	46
9 5	Compressor Motor Control Error	47
9 7	Outdoor Unit Fan Motor Error	48 ~ 50
A 1	Discharge Temperature 1 Abnormal	52
A 2	Discharge Temperature 2 Abnormal	53
A 3	Compressor Temperature Abnormal	54, 55
A 4	High Pressure Abnormal	56 ~ 58
A 5	Low Pressure Abnormal	59
A C	Heat Sink Temperature Abnormal	60
C 4	PCB Error	91
C A	Software Error	82, 89
C 1	PCB Error 1	80, 85