17.1 Indoor Unit Error Display

Operation lamp	Timer lamp	Display	LED STATUS
☆ 1 time	X	E0	Indoor unit EEPROM parameter error
☆ 2 times	X	E1	Communication malfunction between indoor and outdoor units
☆ 4 times	X	E3	Indoor fan speed malfunction
☆ 5 times	X	E4	Indoor room temperature sensor (T1) malfunction
☆ 6 times	X	E5	Evaporator coil temperature sensor (T2) malfunction
☆ 7 times	X	EC	Refrigerant leakage detection
☆ 8 times	X	EE	Water-level alarm malfunction
☆ 1 time	O	F0	Current overload protection
☆ 2 times	O	F1	Outdoor ambient temperature sensor (T4) malfunction
☆ 3 times	O	F2	Condenser coil temperature sensor (T3) malfunction
☆ 4 times	O	F3	Compressor discharge temperature sensor (T5) malfunction
☆ 5 times	O	F4	Outdoor unit EEPROM parameter error
☆ 6 times	O	F5	Outdoor fan speed malfunction
☆ 8 times	O	F7	Communication malfunction between indoor unit and auto-lifting panel
☆ 9 times	O	F8	Auto-lifting panel malfunction
☆ 10 times	O	F9	Auto-lifting panel malfunction is not closed
☆ 11 times	O	FA	Communication malfunction between indoor two chips(For A6 Duct)
☆ 1 times	☆	P0	Inverter module (IPM) malfunction
☆ 2 times	☆	P1	Over-voltage or under-voltage protection
☆ 3 times	☆	P2	Compressor top high temperature protection (OLP)/ High temperature protection of IPM board
☆ 4 times	☆	P3	Low ambient temperature cut off in heating
☆ 5 times	☆	P4	Compressor drive malfunction
☆ 6 times	☆	P5	Indoor units mode conflict
☆ 7 times	☆	P6	High pressure protection or low pressure protection (for some models)
☆ 8 times	☆	P7	Outdoor IPM temperature sensor error

O（light） X（off） ☆（flash）

ACD1-24HRFN1-MT0W(GA), ACD1-36HRFN1-M(GA), ACD1-48HRFN1-M(GA)

Operation Lamp	Timer Lamp	Display	Error Information
1 time	OFF	EH 00/EH 0A	Indoor unit EEPROM parameter error
2 times	OFF	EL 01	Indoor / outdoor unit communication error
4 times	OFF	EH 03	The indoor fan speed is operating outside of the normal range(for some models)
6 times	OFF	EH 60	Indoor room temperature sensor T1 is in open circuit or has short circuited
6 times	OFF	EH 61	Evaporator coil temperature sensor T2 is in open circuit or has short circuited
8 times	OFF	EL 0C	Refrigerant Leakage Detection(for some models)
13 times	OFF	EH 0E	Water-level alarm malfunction
5 times	OFF	EC 53	Outdoor room temperature sensor T4 is in open circuit or has short circuited
5 times	OFF	EC 52	Condenser coil temperature sensor T3 is in open circuit or has short circuited
5 times	OFF	EC 54	Compressor discharge temperature sensor TP is in open circuit or has short circuited
5 times	OFF	EC 56	Evaporator coil outlet temperature sensor T2B is in open circuit or has short circuited(for free-match indoor units)
5 times	ON	EC 51	Outdoor unit EEPROM parameter error
12 times	OFF	EC 07	The outdoor fan speed is operating outside of the normal range(for some models)
7 times	FLASH	PC 00	IPM malfunction or IGBT over-strong current protection
2 times	FLASH	PC 01	Over voltage or over low voltage protection
3 times	FLASH	PC 02	Top temperature protection of compressor or High temperature protection of IPM module
5 times	FLASH	PC 04	Inverter compressor drive error
7 times	FLASH	PC 03	High pressure protection or low pressure protection (for some models)
14 times	OFF	EC 0d	Outdoor unit malfunction
1 time	ON	--	Indoor units mode conflict(match with multi outdoor unit)

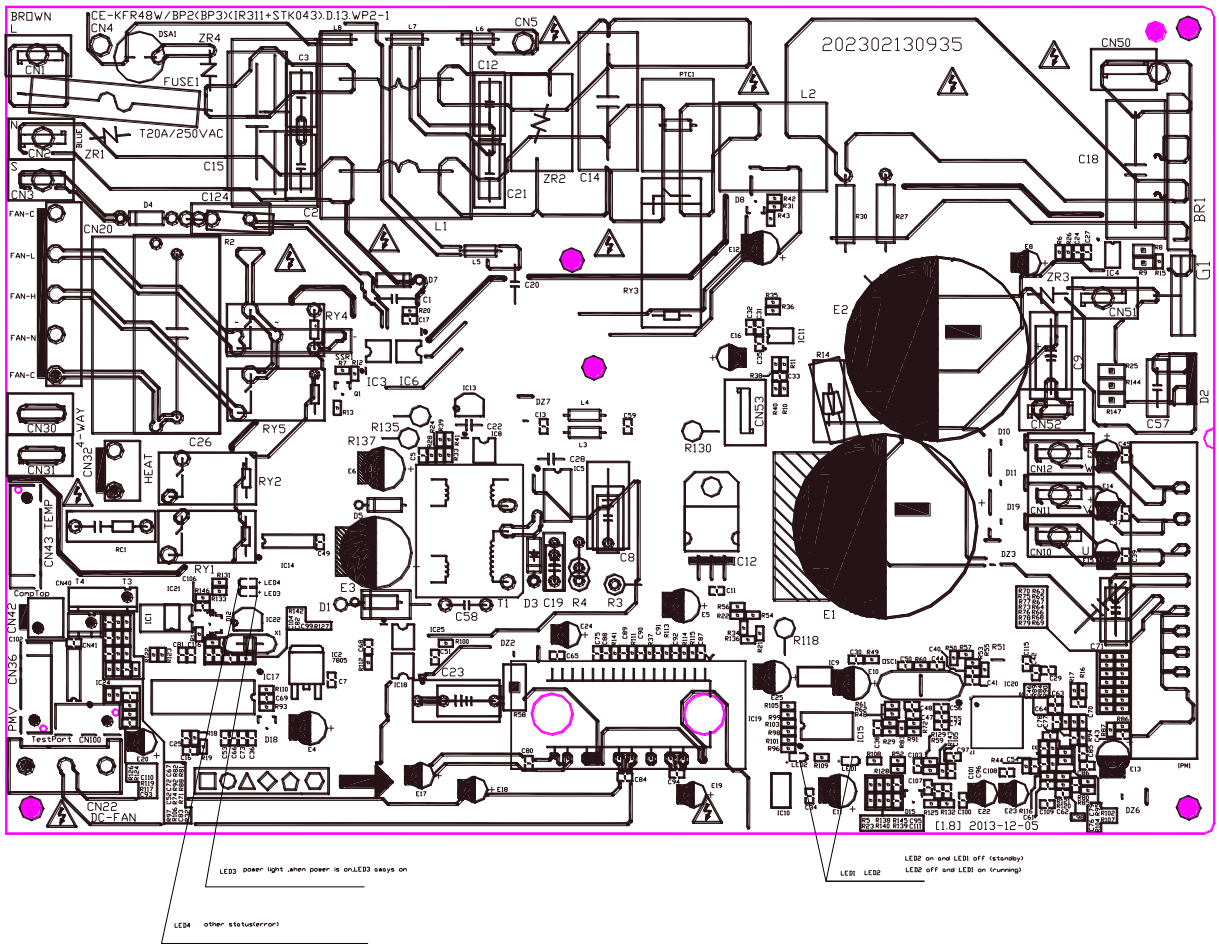
17.2 Error Display on Two Way Communication Wired Controller

Display	LED STATUS
F0	Communication error between wired controller and indoor unit
EH b3	Communication error between wired controller and indoor unit(for KJR-120X series wired controller)
F1	The cassette panel is abnormal
E1	Communication malfunction between indoor and outdoor units
E2	Indoor room temperature sensor (T1) is in open circuit or has short circuited
E3	Evaporator coil temperature sensor (T2) is in open circuit or has short circuited
E4	Evaporator coil outlet temperature sensor T2B is in open circuit or has short circuited(for free-match units)
E5	Outdoor ambient temperature sensor (T4) or condenser coil temperature sensor (T3) or compressor discharge temperature sensor (T5) is in open circuit or has short circuited
E7	Indoor unit EEPROM parameter error
E8	Indoor fan speed is operating outside of the normal range
EA	Current overload protection
Eb	Inverter module (IPM) malfunction
Ed	Outdoor unit malfunction
EE	Water-level alarm malfunction
EF	Other malfunction

For new cassette type, error display on two way communication wired controller is the same as that of indoor display.

17.3 Outdoor unit error display

For 9K-24K outdoor unit:



No.	Problems	LED2 (Green)	LED1 (Red)	IU display
1	standby for normal	O	X	
2	Operation normally	X	O	
3	Compressor drive board EEPROM error	O	☆	E5
4	IPM malfunction or IGBT over-strong current protection	☆	X	P0
5	Over voltage or too low voltage protection	O	O	P1
6	Inverter compressor drive error	X	☆	P4
7	Inverter compressor drive error	☆	O	P4
8	Communication malfunction between main control board and driver board	☆	☆	P4

For AOD30U-36HFN1-MP0(GA), AOE30U-36HFN1-M(GA), AOE30U-48HFN1-MP0(GA), AOE30U-48HFN1-M-[X](GA), AOE30U-60HFN1-M(GA), AOE30U-60HFN1-M(GA)(X)

Display	LED STATUS
EC 51	Outdoor EEPROM malfunction
EL 01	Indoor / outdoor units communication error
PC 40	Communication malfunction between IPM board and outdoor main board
PC 08	Outdoor overcurrent protection
PC 10	Outdoor unit low AC voltage protection
PC 11	Outdoor unit main control board DC bus high voltage protection
PC 12	Outdoor unit main control board DC bus high voltage protection /341 MCE error
PC 00	IPM module protection
PC 0F	PFC module protection
EC 71	Over current failure of outdoor DC fan motor
EC 72	Lack phase failure of outdoor DC fan motor
EC 07	Outdoor fan speed has been out of control
PC 43	Outdoor compressor lack phase protection
PC 44	Outdoor unit zero speed protection
PC 45	Outdoor unit IR chip drive failure
PC 46	Compressor speed has been out of control
PC 49	Compressor overcurrent failure
PC 30	High pressure protection
PC 31	Low pressure protection
PC 0A	High temperature protection of condenser
PC 06	Temperature protection of compressor discharge
PC 0L	Low ambient temperature protection
PC 02	Top temperature protection of compressor
EC 52	Condenser coil temperature sensor T3 is in open circuit or has short circuited
EC 53	Outdoor room temperature sensor T4 is in open circuit or has short circuited
EC 54	Compressor discharge temperature sensor TP is in open circuit or has short circuited
EC 55	Outdoor IPM module temperature sensor malfunction

For 36K-60K Outdoor Unit(excluding AOD30U-36HFN1-MP0(GA), AOE30U-36HFN1-M(GA), AOE30U-48HFN1-MP0(GA),AOE30U-48HFN1-M-[X](GA), AOE30U-60HFN1-M(GA))

No	Problems	Error Code
1	Communication malfunction between indoor and outdoor units	E1
2	Current overload protection	F0
3	Outdoor ambient temperature sensor (T4) malfunction	F1
4	Condenser coil temperature sensor (T3) malfunction	F2
5	Compressor discharge temperature sensor (T5) malfunction	F3
6	Outdoor unit EEPROM parameter error	F4
7	Outdoor fan speed malfunction	F5
8	Inverter module (IPM) malfunction	P0
9	Over-voltage or under-voltage protection	P1

10	Compressor top high temperature protection (OLP)	P2
11	Low ambient temperature cut off in heating	P3
12	Compressor drive malfunction	P4
13	High temperature protection of indoor coil in heating	J0
14	Outdoor temperature protection of outdoor coil in cooling	J1
15	Temperature protection of compressor discharge	J2
16	PFC module protection	J3
17	Communication malfunction between control board and IPM board	J4
18	High pressure protection	J5
19	Low pressure protection	J6
20	Outdoor IPM module temperature sensor malfunction	P7
21	AC voltage protection	J8

Outdoor check function

N	Display	Remark
00	Normal display	Display running frequency, running state or malfunction code
01	Indoor unit capacity demand code	Actual data*HP*10 If capacity demand code is higher than 99, the digital display tube will show single digit and tens digit. (For example, the digital display tube show “5.0”,it means the capacity demand is 15. the digital display tube show “60”,it means the capacity demand is 6.0)
02	Amendatory capacity demand code	
03	The frequency after the capacity requirement transfer	
04	The frequency after the frequency limit	
05	The frequency of sending to 341 chip	
06	Indoor unit evaporator temperature	If the temp. is lower than 0 degree, the digital display tube will show “0”.If the temp. is higher than 70 degree, the digital display tube will show “70”.
07	Condenser pipe temp.(T3)	If the temp. is lower than -9 degree, the digital display tube will show “-9”.If the temp. is higher than 70 degree, the digital display tube will show “70”. If the indoor unit is not connected, the digital display tube will show: “——”
08	Outdoor ambient temp.(T4)	
09	Compressor discharge temp.(T5)	The display value is between 13~129 degree. If the temp. is lower than 13 degree, the digital display tube will show “13”.If the temp. is higher than 99 degree, the digital display tube will show single digit and tens digit. (For example, the digital display tube show “0.5”,it means the compressor discharge temp. is 105 degree. the digital display tube show “1.6”,it means the compressor discharge temp. is 116 degree)
10	AD value of current	The display value is hex number.

<table>
<tr><td>11</td><td>AD value of voltage</td><td colspan="3"></td></tr>
<tr><td>12</td><td>Indoor unit running mode code</td><td colspan="3">Standby:0, Fan only: 1,Cooling:2, Heating:3, Forced cooling:4, Drying:6, Self clean:8, Forced defrosting:10</td></tr>
<tr><td>13</td><td>Outdoor unit running mode code</td><td colspan="3">Standby:0, Fan only: 1,Cooling:2, Heating:3, Forced cooling:4, Drying:6, Self clean:8, Forced defrosting:10</td></tr>
<tr><td>14</td><td>EXV open angle</td><td colspan="3">Actual data/4.
If the value is higher than 99, the digital display tube will show single digit and tens digit.
For example, the digital display tube show “2.0”,it means the EXV open angle is 120×4=480p.)</td></tr>
<tr><td rowspan="8">15</td><td rowspan="8">Frequency limit symbol</td><td>Bit7</td><td>Frequency limit caused by IGBT radiator</td><td rowspan="8">The display value is hex number. For example, the digital display tube show 2A, then Bit5=1, Bit3=1, Bit1=1.
It means frequency limit caused by T4, T3 and current.</td></tr>
<tr><td>Bit6</td><td>Frequency limit caused by PFC</td></tr>
<tr><td>Bit5</td><td>Frequency limit caused by high temperature of T2.</td></tr>
<tr><td>Bit4</td><td>Frequency limit caused by low temperature of T2.</td></tr>
<tr><td>Bit3</td><td>Frequency limit caused by T3.</td></tr>
<tr><td>Bit2</td><td>Frequency limit caused by T5.</td></tr>
<tr><td>Bit1</td><td>Frequency limit caused by current</td></tr>
<tr><td>Bit0</td><td>Frequency limit caused by voltage</td></tr>
<tr><td>16</td><td>DC fan motor speed</td><td colspan="3">0:off 1:Turbo 2:High 3:Medium 4:Low 5: Breeze 6:Super Breeze 7:other fan speed(other 36k~60k models)
0:off 1:High 2:Medium 3:Low 4: Breeze 21:Turbo 30~34: Low temperature cooling 5~1 gear, corresponding gear value conversion hexadecimal display (for MOE30U-36HFN1-M(GA), MOE30U-48HFN1-MP0(GA), MOE30U-48HFN1-M-[X](GA), MOE30U-60HFN1-M(GA))</td></tr>
<tr><td>17</td><td>IGBT radiator temp.</td><td colspan="3">The display value is between 0~130 degree. If the temp. is lower than 30 degree, the digital display tube will show “30”.If the temp. is higher than 99 degree, the digital display tube will show single digit and tens digit. (For example, the digital display tube show “0.5”,it means the IGBT radiator temp. is 105 degree. the digital display tube show “1.6”,it means the IGBT radiator temp. is 116 degree)</td></tr>
<tr><td>18</td><td>Indoor unit number</td><td colspan="3">The indoor unit can communicate with outdoor unit well.
General:1, Twins:2</td></tr>
<tr><td>19</td><td>Evaporator pipe temp. T2 of 1# indoor unit</td><td colspan="3" rowspan="3">If the temp. is lower than 0 degree, the digital display tube will show “0”.If the temp. is higher than 70 degree, the digital display tube will show “70”. If the indoor unit is not connected, the digital display tube will show: “——”</td></tr>
<tr><td>20</td><td>Evaporator pipe temp. T2 of 2# indoor unit</td></tr>
<tr><td>21</td><td>Evaporator pipe temp. T2 of 3# indoor unit</td></tr>
</table>

22	1# Indoor unit capacity demand code	Actual data*HP*10 If capacity demand code is higher than 99, the digital display tube will show single digit and tens digit. (For example, the digital display tube show “5.0”,it means the capacity demand is 15. the digital display tube show “60”,it means the capacity demand is 6.0). If the indoor unit is not connected, the digital display tube will show: “——”
23	2# Indoor unit capacity demand code	
24	3# Indoor unit capacity demand code	
25	Room temp. T1 of 1# indoor unit	If the temp. is lower than 0 degree, the digital display tube will show “0”.If the temp. is higher than 70 degree, the digital display tube will show “70”. If the indoor unit is not connected, the digital display tube will show: “——”
26	Room temp. T1 of 2# indoor unit	
27	Average room temp. T1	
28	Reason of stop	
29	Evaporator pipe temp. T2B of 1# indoor unit	If the temp. is lower than 0 degree, the digital display tube will show “0”.If the temp. is higher than 70 degree, the digital display tube will show “70”. If the indoor unit is not connected, the digital display tube will show: “——”
30	Evaporator pipe temp. T2B of 2# indoor unit	
31	EVI valve open angle(only for AOE30U-36HFN1-M-[X] AOE30U-48HFN1-M-[X] AOE30U-36HFN1-M(GA) AOE30U-48HFN1-M-[X](GA))	Actual data/4. If the value is higher than 99, the digital display tube will show single digit and tens digit. For example, the digital display tube show “2.0”,it means the EXV open angle is 120×4=480p.)