

Error Display (Indoor Unit)

When the indoor unit encounters a recognized error, the operation lamp will flash in a corresponding series, the timer lamp may turn on or begin flashing, and an error code will be displayed. These error codes are described in the following table:

Operation Lamp	Timer Lamp	Display	Error Information	Solution
1 time	OFF	E100/ E101	Indoor unit EEPROM parameter error	TS16
2 times	OFF	E101	Indoor / outdoor unit communication error	TS17
4 times	OFF	E103	The indoor fan speed is operating outside of the normal range(for some models)	TS19
4 times	OFF	E131	Upper indoor fan speed is operating outside of the normal range(for new console type)	TS19
4 times	OFF	E132	Lower indoor fan speed is operating outside of the normal range(for new console type)	TS19
6 times	OFF	E160	Indoor room temperature sensor T1 is in open circuit or has short circuited	TS22
6 times	OFF	E161	Evaporator coil temperature sensor T2 is in open circuit or has short circuited	TS22
8 times	OFF	E10C	Refrigerant leakage detection	TS23
9 times	OFF	E10b	Communication error between display board and main board	TS33
13 times	OFF	E10E	Water-level alarm malfunction	TS24

Troubleshooting

5 times	OFF	EE 53	Outdoor room temperature sensor T4 is in open circuit or has short circuited	TS22
5 times	OFF	EE 52	Condenser coil temperature sensor T3 is in open circuit or has short circuited	TS22
5 times	OFF	EE 54	Compressor discharge temperature sensor TP is in open circuit or has short circuited	TS22
5 times	OFF	EE 55	IGBT temperature sensor TH is in open circuit or has short circuited	TS22
5 times	OFF	EE 56	Evaporator coil outlet temperature sensor T2B is in open circuit or has short circuited(for free-match indoor units)	TS22
5 times	ON	EE 51	Outdoor unit EEPROM parameter error	TS16
12 times	OFF	EE 07	The outdoor fan speed is operating outside of the normal range(for some models)	TS19
7 times	FLASH	PC 00	IPM malfunction or IGBT over-strong current protection	TS25
2 times	FLASH	PC 01	Over voltage or over low voltage protection	TS26
3 times	FLASH	PC 02	Top temperature protection of compressor or High temperature protection of IPM module	TS31
5 times	FLASH	PC 04	Inverter compressor drive error	TS27
7 times	FLASH	PC 03	High pressure protection or low pressure protection (for some models)	TS28
14 times	OFF	EE 0d	Outdoor unit malfunction(for some models)	TS32
15 times	OFF	EH 07	Communication malfunction between indoor unit and auto-lifting panel	TS36
--	--	EH bA	Communication malfunction between external fan module and indoor unit(for some models)	TS35
4 times	OFF	EH 3A	External fan DC bus voltage is too low protection(for some models)	TS35
4 times	OFF	EH 3b	External fan DC bus voltage is too high fault(for some models)	TS35
1 time	ON	--	Indoor units mode conflict(match with multi outdoor unit)	--
4 times	FLASH	PC 0L	Low ambient temperature protection(for some models)	TS32

For other errors:

The display board may show a garbled code or a code undefined by the service manual. Ensure that this code is not a temperature reading.

Troubleshooting:

Test the unit using the remote control. If the unit does not respond to the remote, the indoor PCB requires replacement. If the unit responds, the display board requires replacement.

LED flash frequency:



Error Display on Two Way Communication Wired Controller

Display	Malfunction or Protection	Solution
EH b3	Communication error between wire controller and indoor unit((for KJR-120X series wired controller)	TS34

The other error codes displayed on the wire controller are same from those on the unit.

Troubleshooting

Display	Error Information
EH 00/EH 0A	Indoor unit EEPROM parameter error
EL 01	Indoor / outdoor unit communication error
EH 6A	Communication error between indoor unit and indoor external fan module
EH 30	Parameters error of indoor external fan
EH 31	Upper indoor fan speed is operating outside of the normal range(for new console type)
EH 32	Lower indoor fan speed is operating outside of the normal range(for new console type)
EH 35	Phase failure of indoor external fan
EH 36	Indoor external fan current sampling bias fault
EH 37	Indoor external fan zero speed failure
EH 38	Indoor external fan stall failure
EH 39	Out of step failure of indoor external fan
EH 3A	Low voltage protection of indoor external fan DC bus
EH 3B	Indoor external fan DC bus voltage is too high fault
EH 3E	Indoor external fan overcurrent fault
EH 3F	Indoor external fan module protection/hardware overcurrent protection
EH 03	The indoor fan speed is operating outside of the normal range
EC 51	Outdoor unit EEPROM parameter error
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	IGBT temperature sensor TH is in open circuit or has short circuited
EC 0d	Outdoor unit malfunction
EH 60	Indoor room temperature sensor T1 is in open circuit or has short circuited
EH 61	Evaporator coil temperature sensor T2 is in open circuit or has short circuited
EC 71	Outdoor external fan overcurrent fault
EC 75	Outdoor external fan module protection/hardware overcurrent protection
EC 72	Outdoor external fan phase failure
EC 74	Outdoor external fan current sampling bias fault
EC 73	Zero speed failure of outdoor unit DC fan
EC 07	The outdoor fan speed is operating outside of the normal range(
EH b5	Intelligent eye communication failure
EL 0C	Refrigerant leak detected
EH 0b	Communication error between indoor two chips
EH 0b	Communication error between display board and main board(for new console type)
EH 0E	Water-level alarm malfunction
EH 0F	Intelligent eye malfunction
FH 07	Communication malfunction between indoor unit and auto-lifting panel

Troubleshooting

PC 00	IPM malfunction or IGBT over-strong current protection
PC 10	Over low voltage protection
PC 11	Over voltage protection
PC 12	DC voltage protection
PC 02	Top temperature protection of compressor or High temperature protection of IPM module
PC 40	Communication error between outdoor main chip and compressor driven chip
PC 41	Current Input detection protection
PC 42	Compressor start error
PC 43	Lack of phase (3 phase) protection
PC 44	Outdoor unit zero speed protection
PC 45	341PWM error
PC 46	Compressor speed malfunction
PC 49	Compressor over current protection
PC 06	Compressor discharge temperature protection
PC 08	Outdoor current protection
PH 09	Anti-cold air in heating mode
PC 0F	PFC module malfunction
PC 30	System overpressure protection
PC 31	System pressure is too low protection
PC 03	Pressure protection
PC 0L	Outdoor low ambient temperature protection
PH 90	Evaporator coil temperature over high protection
PH 91	Evaporator coil temperature over low Protection
PC 0A	Condenser high temperature protection
PH 0C	Indoor unit humidity sensor failure
LH 00	Frequency limit caused by T2
LH 30	Indoor external fan current limit
LH 31	Indoor external fan voltage limit
LC 01	Frequency limit caused by T3
LC 02	Frequency limit caused by TP
LC 05	Frequency limit caused by voltage
LC 03	Frequency limit caused by current
LC 06	Frequency limit caused by PFC
LC 30	Frequency limit caused by high pressure
LC 31	Frequency limit caused by low pressure
LH 07	Frequency limit caused by remote controller
--	Indoor units mode conflict(match with multi outdoor unit)
NR	No malfunction and protection