

5				Limit to the max operating frequency caused by too low power voltage
6	★	★	★	Operation at fixed frequency (in the case of capability measuring or compulsory operation at fixed frequency)
7	0	×	×	Protective frequency decreasing against outdoor overload (overpower, over frequency conversion rate, over torque, detection of DC under-voltage)
8	★	×	×	Frequency decreasing caused by indoor and outdoor communication fault
9	×	★	0	Frequency decreasing or prohibition of frequency rising protection against overload of outdoor coiled pipe
10	×	★	×	Frequency decreasing or prohibition of frequency rising for power-saving when it is being used simultaneously with other appliances

2. Indication by the indoor unit:

2.1. The 7-segment tube of the indoor display board will show the error code automatically when the unit has the following trouble:

Error code	Power	Timer	Running	Sleep	Remark: ★Light 0 Flash x OFF		
	1	2	3	4	Content	Remark	The root cause is may be one of the following
EA					the error code will display when the communication between display board and control board have in trouble		a. The connection between the display board and control board is loose; b. The indoor control board is failure. c. The wiring of the display board is failure.

2.2. When the unit has the following trouble and the compressor stops running, press the sleep button on the remote controller for 10 times in ten seconds and the 7-segment tube of the display board will show the error code as the following, if two malfunction happened at the same time, it need press the sleep button for 10 times again, the LED will show the other error code.

Refer to the remote controller which the sleep key can set into 4 different combination ways (Hisense's new design remote controller), when using to check the error codes only takes effect for pressing the sleep key 10 times in ten seconds instead of 4 times.

NOTE: If the troubleshooting inquiry display by 7-segment tube, then the error code will be displayed, otherwise only the LED of the display board can show.

Error code	Running	Timer	Sleep	Power	Remark: ★Light 0 Flash x OFF		
	1	2	3	4	Content	Remark	The root cause is may be one of the following
0					Normal		

1	x	o	x	x	The failure for temperature sensor of outdoor coil		<ul style="list-style-type: none"> a. The outdoor temperature sensor loose; b. The outdoor temperature sensor is failure; c. The indoor control board is failure
2	x	O	★	x	Compressor exhaust temperature sensor in trouble		<ul style="list-style-type: none"> a.the compressor exhaust temperature sensor connect loose; b.the compressor exhaust temperature sensor is failure; c.the outdoor control board is failure
5	★	O	x	x	IPM module protection		<ul style="list-style-type: none"> a.The IPM board is failure; b.The outdoor fan is broken; c.The outdoor fan motor is failure; d.The outdoor fan has been blocked ; e.The condenser is dirty; f.The outdoor unit has been installed without standard.
6	★	O	x	★	AC voltage higher or lower protection		<ul style="list-style-type: none"> a.the supply voltage is higher or lower than normal; b.the inner supply voltage of the unit is higher or lower than normal
7	★	O	★	x	Communication failure between the indoor unit and outdoor unit		<ul style="list-style-type: none"> a.the communication cable connect loose; b.the communication cable is failure; c.the connection between the filter board and the outdoor control board is incorrect or loose; d.the connection between the filter board and the terminal is incorrect or loose; e.the indoor control board is failure; f.the PFC board is failure; g.the power board is failure; h.the outdoor control board is failure.
8	★	O	★	★	Current overload protection		<ul style="list-style-type: none"> a.the fan motor run abnormally; b.the condensor and evaporator is dirty; c.the air inlet and outlet is

							abnormally
9	×	×	O	×	Maximum current protection		a. the outdoor control board is short circuit; b. the drive board is short circuit; c. the other components is short circuit
10	×	×	O	★	Communication trouble between outdoor unit and driver		a. the connection wires connect loose b. the outdoor board or drive board is failure;
11	×	★	O	×	Outdoor EEPROM in trouble		a. the EEPROM chip is loose; b. the EEPROM chip inserted with opposite direction; c. the EEPROM chip is failure
12	×	★	O	★	Outdoor ambient temperature too low protection		Outdoor ambient temperature too low
13	★	×	O	×	Compressor exhaust temperature too high protection		a. the compressor exhaust temperature sensor is failure; b. the refrigerant of the unit is not enough
14	★	×	O	★	Outdoor ambient temperature sensor in trouble		a. the outdoor ambient temperature sensor connect loose; b. the outdoor ambient temperature sensor is failure; c. the outdoor control board is failure
15	★	★	O	×	Compressor shell temperature too high protection		a. the compressor exhaust temperature sensor connect loose b. the refrigerant of the unit is not enough
16					Anti-freeze protection with cooling or overload protection with heating in		a. the indoor coil temperature sensor connect loose; b. the indoor coil temperature sensor is failure; c. the indoor control board is failure d. the refrigerant system is abnormal.

17					PFC protection		a. the PFC is failure; b. the outdoor drive board is failure
18					DC compressor start failure		a. the outdoor drive board is failure; b. the compressor is failure
19	x	x	x	O	Compressor drive in trouble		a. the outdoor drive board is failure; b. the compressor is failure c. the outdoor control board is failure
20	★	x	x	O	Outdoor fan motor locked rotor protection		a. the connection of the outdoor fan motor is loose; b. there are something block the outdoor fan; c. the fan motor is failure; d. the outdoor control board is failure
21					Outdoor coil anti-overload protection with cooling		a. the refrigerant is too much; b. the outdoor fan motor is failure; c. the outdoor fan is broken; d. the condensor is dirty; e. the air inlet and air outlet of the indoor unit and the outdoor unit is not normally
22					Compressor pre heating process		it is normal mode in cold weather
24					Chip in outdoor board in trouble		a. Using the wrong drive board; b.Using the wrong compressor.
26					Overheated outdoor radiator		a. Radiator sensor fails b. Detection circuit of the sensor on the control panel fails
27					Protection against too high system pressure		a. The pressure switch fails b. The pressure detection switch on the control panel fails c. The measured value of system pressure exceeds the limit
33	o	x	x	★	The failure for temperature sensor of indoor room		a. The indoor room temperature sensor loose; b. The indoor room temperature sensor is

							failure; c. The indoor control board is failure.
34	o	x	★	x	The failure for temperature sensor of indoor coil temperature		a. The indoor coil temperature sensor loose; b. The indoor coil temperature sensor is failure; c. The indoor control board is failure.
36	O	★	x	★	Communication failure between the indoor unit and outdoor unit		a. the communication cable connect loose; b. the communication cable is failure; c. the connection between the filter board and the outdoor control board is incorrect or loose; d. the connection between the filter board and the terminal is incorrect or loose; e. the indoor control board is failure; f. the PFC board is failure; g. the power board is failure; h. the outdoor control board is failure.
38	o	★	★	★	Indoor EEPROM failure		a. The EEPROM chip loose; b. The indoor control board is failure
39	o	x	★	★	Indoor fan motor run abnormally		a. There are something block the indoor fan motor; b. The fan motor cord connect loose; c. The fan motor is failure; d. The indoor control board is failure
41	★	★	o	★	The failure for Indoor grounding protective		The indoor control board is failure

2.2 LED display

Error code	Sleep	Timer	Running		Remark: ★Light O Flash x OFF		
	1	2	3		Content	Remark	The root cause is may be one of the following
0					Normal		

1	O	★	★		The failure for temperature sensor of outdoor coil		d. The outdoor temperature sensor loose; e. The outdoor temperature sensor is failure; f. The indoor control board is failure
2	O	★	x		Compressor exhaust temperature sensor in trouble		a.the compressor exhaust temperature sensor connect loose; b.the compressor exhaust temperature sensor is failure; c.the outdoor control board is failure
5	★	O	x		IPM module protection		a.The IPM board is failure; b.The outdoor fan is broken; c.The outdoor fan motor is failure; d.The outdoor fan has been blocked ; e.The condenser is dirty; f.The outdoor unit has been installed without standard.
6	x	O	x		AC voltage higher or lower protection		a.the supply voltage is higher or lower than normal; b.the inner supply voltage of the unit is higher or lower than normal
7	★	★	x		Communication failure between the indoor unit and outdoor unit		a.the communication cable connect loose; b.the communication cable is failure; c.the connection between the filter board and the outdoor control board is incorrect or loose; d.the connection between the filter board and the terminal is incorrect or loose; e.the indoor control board is failure; f.the PFC board is failure; g.the power board is failure; h.the outdoor control board is failure.
8					Current overload protection		a.the fan motor run abnormally; b.the condensor and evaporator is dirty; c.the air inlet and outlet is abnormally
9					Maximum current protection		a.the outdoor control board is short circuit; b.the drive board is short circuit; c.the other components is short

						circuit
10	★	x	x		Communication trouble between outdoor unit and driver	a. the connection wires connect loose b. the outdoor board or drive board is failure;
11	○	x	x		Outdoor EEPROM in trouble	a. the EEPROM chip is loose; b. the EEPROM chip inserted with opposite direction; c. the EEPROM chip is failure
12					Outdoor ambient temperature too low protection	Outdoor ambient temperature too low
13	○	x	★		Compressor exhaust temperature too high protection	a. the compressor exhaust temperature sensor is failure; b. the refrigerant of the unit is not enough
14	★	★	○		Outdoor ambient temperature sensor in trouble	a. the outdoor ambient temperature sensor connect loose; b. the outdoor ambient temperature sensor is failure; c. the outdoor control board is failure
15	x	○	★		Compressor shell temperature too high protection	a. the compressor exhaust temperature sensor connect loose b. the refrigerant of the unit is not enough
16	★	x	★		Anti-freeze protection with cooling or overload protection with heating in	a. the indoor coil temperature sensor connect loose; b. the indoor coil temperature sensor is failure; c. the indoor control board is failure d. the refrigerant system is abnormal.
17	x	★	x		PFC protection	a. the PFC is failure; b. the outdoor drive board is failure
18	x	★	★		DC compressor start failure	a. the outdoor drive board is failure; b. the compressor is failure

19	x	★	O		Compressor drive in trouble		a. the outdoor drive board is failure; b. the compressor is failure c. the outdoor control board is failure
20	★	x	O		Outdoor fan motor locked rotor protection		a. the connection of the outdoor fan motor is loose; b. there are something block the outdoor fan; c. the fan motor is failure; d. the outdoor control board is failure
21	x	x	O		Outdoor coil anti-overload protection with cooling		a. the refrigerant is too much; b. the outdoor fan motor is failure; c. the outdoor fan is broken; d. the condensor is dirty; e. the air inlet and air outlet of the indoor unit and the outdoor unit is not normally
22					Compressor pre heating process		it is normal mode in cold weather
24					Chip in outdoor board in trouble		a. Using the wrong drive board; b.Using the wrong compressor.
26					Overheated outdoor radiator		a. Radiator sensor fails b. Detection circuit of the sensor on the control panel fails
27					Protection against too high system pressure		a. The pressure switch fails b. The pressure detection switch on the control panel fails c. The measured value of system pressure exceeds the limit
33	★	O	O		The failure for temperature sensor of indoor room		d. The indoor room temperature sensor loose; e. The indoor room temperature sensor is failure; f. The indoor control board is failure.
34	x	O	O		The failure for temperature sensor of indoor coil temperature		d. The indoor coil temperature sensor loose; e. The indoor coil temperature sensor is failure; f. The indoor control board is failure.
36	O	★	O		Communication failure between		a. the communication cable connect loose;

					the indoor unit and outdoor unit		b. the communication cable is failure; c. the connection between the filter board and the outdoor control board is incorrect or loose; d. the connection between the filter board and the terminal is incorrect or loose; e. the indoor control board is failure; f. the PFC board is failure; g. the power board is failure; h. the outdoor control board is failure.
38	O	O	x		Indoor EEPROM failure		c. The EEPROM chip loose; d. The indoor control board is failure
39	O	O	★		Indoor fan motor run abnormally		b. There are something block the indoor fan motor; b. The fan motor cord connect loose; c. The fan motor is failure; d. The indoor control board is failure
41	x	x	★		The failure for Indoor grounding protective		The indoor control board is failure

The failure is detected when the room temperature sensor broken or shorted over 5 sec.

The failure is detected when the temperature sensor of heater exchange broken or shorted over 5 sec.

The failure is detected when each setting data is not match after the EEPROM self-check two times.

The failure is occur when the grounding signal is not detected after the appliance power ON.