

# Alarm Codes

## Room Air Conditioner range: **Indoor unit alarm codes**

If timer lamp flashes for 1 second on, 1 second off, this indicates pre heating on the coil during heating mode and is not an error.

If timer lamp flashes for a number of times and then pauses, please reference table below. Display will flash as shown in diagram.

LED 301 flashes	Range: Summit/Mono/Multizone indoor unit
01	<b>Indoor coil is too warm in cooling mode or too cold in heating mode.</b> Reversing valve or coil thermistor is faulty
02	<b>Forced operation from the outdoor unit.</b> This is not an error
03	<b>Communication error.</b> Faulty wiring, indoor or outdoor PCB faulty
04	<b>Outdoor unit fault.</b> Check the number of flashes on outdoor PCB LED 301 to confirm exact problem
06	<b>Float switch activated.</b> Check pump operation and drain
07	<b>Drain pump forced operation.</b> Drain test switch in test position, faulty PCB
08	<b>Louvre not opening.</b> Louvre motor faulty, microswitch faulty, PCB faulty (RAF unit only)
09	<b>Faulty indoor unit thermistor.</b> Air inlet or coil thermistor not connected, open or short circuited faulty PCB
10	<b>Indoor fan motor over current or abnormal rotation speed.</b> Faulty motor or PCB
13	<b>Eprom data error.</b> Faulty PCB

Room Air Conditioner range:  
**Outdoor unit alarm codes**

LED 301 flashes	Range: Summit/Mono/Multizone outdoor unit
1	<b>Normal, unit powered up</b>
2	<b>Over current on the compressor</b> Faulty PCB or locked compressor
2 with LED302 lit	<b>Over current on the compressor</b> System power module or PCB failure
3	<b>Compressor rotation speed is low, abnormal compressor rotor position</b> Faulty system power module, faulty compressor or PCB
4	<b>Switching failure on the compressor</b> Faulty system power module, faulty compressor or PCB
5	<b>Compressor rotation low with over current detected</b> High pressure detected, faulty fan motor/circuit or abnormally low voltage
6	<b>Discharge thermistor temperature rising</b> Short of refrigerant charge, faulty thermistor, faulty compressor faulty fan motor/circuit or main PCB
7	<b>Faulty thermistor (Summit and Monozone only)</b>
8	<b>Compressor not accelerating above minimum rotation speed</b> Short of refrigerant charge or faulty compressor
9	<b>Communication error</b> C/D terminals not connected, faulty interconnecting cable PCB failure (Summit and Monozone only)
10	<b>Abnormal voltage</b> Mains voltage incorrect or faulty reactor
12	<b>Fan motor rotation is abnormal</b> Faulty fan motor or PCB (check fuse)
13	<b>Eprom error</b> Main PCB failure
14	<b>Over voltage is detected by system power module</b> Faulty SPM

If indoor unit filter lamp is flashing four times, this indicates an outdoor unit fault. This is identified by the number of flashes on LD 301, please see the table right.

If LD 303 is on permanently this is normal operation. If LD 301 is lit in conjunction with LD 303 this indicates an overload (1) condition but not an alarm. If LD 302 is lit in conjunction with LD 303 this indicates an overload (2) condition but not an alarm and if LD 301 and LD 302 are lit in conjunction with LD 303, this indicates an overload (3) condition but not an alarm.

On Multizone systems only, if LD 301 is lit permanently and LD 302 is flashing a number of times, this indicates a thermistor fault. Please refer to the table right for the thermistor that is faulty.

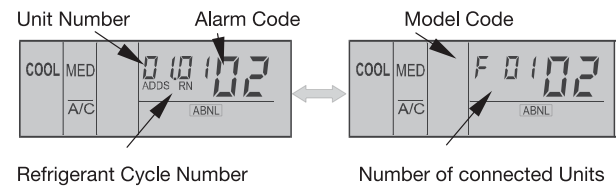
If LD 304 is flashing, the number of flashes indicates a communication error with the corresponding indoor unit circuit number. Check cable connections, cable is not short circuited or open circuit and PCB operation.

LD 302 Flashes	Thermistor that is faulty
1	<b>Compressor overheat (OH)</b>
2	<b>Defrost thermistor</b>
3	<b>Ambient thermistor</b>
4	<b>Narrow pipe (expansion) thermistor, for circuit 1</b>
5	<b>Wide pipe (suction) thermistor, for circuit 1</b>
6	<b>Narrow pipe (expansion) thermistor, for circuit 2</b>
7	<b>Wide pipe (suction) thermistor, for circuit 2</b>
8	<b>Narrow pipe (expansion) thermistor, for circuit 3</b>
9	<b>Wide pipe (suction) thermistor, for circuit 3</b>

## System Free Indoor unit alarm codes

If run lamp flashes for two seconds on, two seconds off, there is a failure in the communication between indoor unit PCB and controller.  
Causes - open or short circuit on wiring, faulty controller or faulty PCB.

If run lamp flashes once per second and displays alarm code please reference table below. Display will flash as shown in diagram.



Alarm code	Category of failure	Range		
		Set Free	IVX Systems	Utopia ES
01	Indoor unit	Indoor unit safety device activated. Failure of fan motor, float switch activated or PCB failure		
02	Outdoor unit	High pressure trip (41.3bar)	High pressure trip (41.3bar) or phase reversal	High pressure trip (41.3bar) or phase reversal
03	Communication error	Communication error between indoor and outdoor units. Problem with the communication cable, power to indoor or outdoor unit, dipswitch settings or PCB		
04		Communication error between outdoor unit main PCB and Inverter PCB. Problem with cables between the 2 PCBs, power to the inverter PCB or failure of the PCB		
04.		Communication error between outdoor unit main PCB and fan PCB. Problem with the cables between the 2 PCBs, power to the fan PCB or failure of the fan PCB	N/A	
05	Power supply	Phase failure or reversal	N/A	
06		Voltage drop to inverter compressor. Problem with mains voltage, capacitors to inverter compressor or inverter electronics		
06.		Voltage drop to condenser fan inverter. Problem with mains voltage, capacitors to inverter fan or inverter fan electronics		
07	Refrigerant cycle	Decrease in discharge gas superheat. Excessive refrigerant, indoor expansion valve locked open (cooling), outdoor expansion valve locked open (heating) or short cycling of air to the indoor unit		
08		Increase of compressor temperature. Shortage of refrigerant, blockage in refrigerant cycle, outdoor expansion valve locked closed (heating), indoor expansion valve locked closed (cooling)		
09	Outdoor unit	Thermal overload of fixed speed fan motor. Locked fan	N/A	
11	Indoor unit	Inlet air thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
12		Outlet air thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
13		Freeze protection (liquid line) air thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
14		Gas pipe (suction) thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
19		Fan motor alarm. Thermal overload on AC fan motors or over/under current/rotation on DC fan motors		

System Free  
**Indoor unit alarm codes**

Alarm code	Category of failure	Range		
		Set Free	IVX Systems	Utopia ES
20	Outdoor unit	N/A	Compressor/discharge gas thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure	
21		Discharge pressure transducer alarm. Problem with the connection of the transducer to the PCB, transducer open or short circuit or PCB failure	N/A	
22		Ambient air thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
23		Compressor/discharge gas thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure	N/A	
24	Outdoor unit	Evaporation thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
26		FSVNE only. Suction gas thermistor alarm. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure	N/A	
29		Suction pressure transducer alarm. Problem with the connection of the transducer to the PCB, transducer open or short circuit or PCB failure	N/A	
30	System	Incorrect H-LINK wiring. 2 CH boxes are wired in series	N/A	
31		Incorrect capacity code setting. Indoor units connected are more than 130% or less than 50%	Indoor and outdoor unit capacity does not match	
32		Loss of other unit communication on the same refrigerant cycle number. Other indoor unit switched off, Communication wiring error, PCB failure on other unit on the same refrigerant cycle number		
35		Duplication of indoor or outdoor unit address on the same H-LINK		
36		Indoor/Outdoor unit combination is not compatible		
38		Abnormality in protection circuit on the outdoor unit. Incorrect connection to outdoor PCB, failure of PCB		
39		Fixed speed compressor over current or under current	N/A	
41	Pressure	N/A	Outdoor pipe thermistor is over 55°C and compressor temperature is over 95°C (cooling mode)	
42		N/A	Indoor freeze protection (liquid) thermistor is over 55°C and compressor temperature is over 95°C (cooling mode)	
43		Pressure ratio falling, protection. Discharge and suction pressures too close. Check refrigerant charge, failure of pressure transducer, compressor failure	N/A	
44		High suction gas pressure protection	N/A	
45		High discharge gas pressure protection	N/A	
47		Low suction pressure protection. Restriction or shortage of refrigerant	Excessively low evaporating temperature (-35°C)	

System Free  
**Indoor unit alarm codes**

Alarm code	Category of failure	Range		
		Set Free	IVX Systems	Utopia ES
48	Inverter		Over current detected. Failure of IPM, PCB2, locked compressor or abnormally high discharge pressure	
51		Abnormality of inverter current sensor. Failure of sensor or inverter PCB	Abnormality of inverter current sensor. Failure of Main PCB, IPM or PCB2	
52		Over current on inverter compressor. Failure of electronics or seized compressor	Abnormality of inverter fin thermistor	
53		IPM protection. Over current, low voltage or overheating	IPM or PCB2 protection. Over current or overheating	
54		Inverter fin temperature rise protection. Over current or restricted air flow	As Set free, with possibility of outdoor fan abnormality	
55	Controller	Short circuit on remote controller wiring, failure of controller or failure of indoor unit PCB		
56	Outdoor fan	Abnormality of fan motor position. Transmission failure on inverter fan motor	N/A	
57		Fan controller protection. Abnormal fan speed	Fan motor abnormality. Wiring error between main and fan PCB or fan motor failure	
58		Abnormality of fan controller. Over current or over temperature of controller fins	N/A	
61	Central station	Loss of communication of unit, previously detected. Power to indoor unit, Communication wiring error, PCB failure		
96	KPI thermistor	Total heat exchanger room temperature thermistor error. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
97		Total heat exchanger outdoor temperature thermistor error. Problem with the connection of the thermistor to the PCB, thermistor open or short circuit or PCB failure		
dd	System	Incorrect communication cable wiring. Crossed with remote controller or crossed on CH box		
EE		System locked out due to outdoor unit alarm reset 3 times in 6 hours		