


### 1.3 Error description

If some error occurs when the unit is running, the error code will be displayed on the wired controller and the main board  of the outdoor unit. See the table below for more details about the meaning of each error.

Residential AC Errors	Commerical AC Errors	Outdoor Unit "88" Display	Indicating Lamp			Lamp Panel "88" Display (Floor Ceiling Type)	Wired Controller Display
			Running	Cooling	Heating		
/	Defrosting mode 1	08	/	/	/	/	/
/	Defrosting mode 2	0A	/	/	/	/	/
/	heating overload protection	0C	Flash 3 times	Flash 3 times	Flash 3 times	/	oE
/	Normal running	ON	/	/	/	/	/
Short/open circuit of the liquid valve temperature sensor	Short/open circuit of the liquid valve temperature sensor	Shown as Table 16	/	Flash 19 times	/	b5	b5
Short/open circuit of the gas valve temperature sensor	Short/open circuit of the gas valve temperature sensor	Shown as Table 16	/	Flash 22 times	/	b7	b7
Refrigerant insufficiency or blockage protection (available for the residential outdoor unit)	Refrigerant insufficiency or blockage protection (available for the residential outdoor unit)	F0	/	Flash 10 times	/	oE	oE
Short/open circuit of the indoor ambient temperature sensor	Short/open circuit of the indoor ambient temperature sensor	Shown as Table 16	/	Flash once	/	F1	F1
Short/open circuit of the indoor evaporator	Short/open circuit of the indoor evaporator	Shown as Table 16	/	Flash twice	/	F2	F2
Short/open circuit of the outdoor ambient temperature sensor	Short/open circuit of the outdoor ambient temperature sensor	F3	/	Flash 3 times	/	F3	F3
Short/open circuit of the temperature sensor at the midway of the condenser coil (for the commercial unit)	Short/open circuit of the temperature sensor at the midway of the condenser coil (for the commercial unit)	F4	/	Flash 4 times	/	F4	F4
Short/open circuit of the outdoor discharge temperature sensor	Short/open circuit of the outdoor discharge temperature sensor	F5	/	Flash 5 times	/	F5	F5
Oil returning in cooling	Oil returning in cooling	F7	/	/	/	/	/
System high pressure protection	System high pressure protection	E1	Flash once	/	/	E1	E1
Anti-freezing protection	Anti-freezing protection	E2	Flash twice	/	/	E2	E2
System low pressure protection (reserved)	System low pressure protection	E3	Flash 3 times	/	/	E3	E3
Compressor discharge high temperature protection	Compressor discharge high temperature protection	E4	Flash 4 times	/	/	E4	E4
Whole unit over-current protection	Whole unit over-current protection	E5	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Communication error between the indoor and outdoor units	Communication error between the indoor and outdoor units	Shown as Table 16	Flash 6 times	/	/	E6	E6
Mode conflict	Mode conflict	Shown as Table 16	Flash 7 times	/	/	E7	E7
Overload protection	Overload protection	E8	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Anti cold blow protection	/	E9	/	/	/	/	/
/	Indoor unit water overflow error		/	Flash	Flash	E9	E9
Trial run/trial operation	Trial run/trial operation	dd	Quick flash	Quick flash	Quick flash	dd	dd
Refrigerant recovery mode	Refrigerant recovery mode	Fo	Quick flash	Quick flash	/	Fo	Fo
Drive module resetting (for the commercial unit)	IPM Drive module resetting	P0	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE

Min. cooling/heating (capability test code)	Cooling IPLV test	P0	/	Quick flash	/	P0	P0
	Cooling IPLV test		/	/	Quick flash	P0	
Mid. Cooling/heating (capability test code)	Cooling level AA performance test	P3	/	Quick flash	/	P3	P3
	Level AA cooling performance test		/	/	Quick flash	P3	
Phase over-current protection	Compressor over- current protection	P5	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Drive board communication error(for the commercial unit)	Communication error between the inverter driver to the main controller	P6	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Short/open circuit of the of the module temperature sensor	Short/open circuit of the of the module temperature sensor	P7	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Module temperature protection	Module temperature protection	P8	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
AC contact protection (for the commercial unit)	AC contact protection	P9	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Circuit sensor error	Circuit sensor error	Pc	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Transducer connection protection (for the commercial unit)	Transducer connection protection	Pd	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
AC current protection(input side)	AC current protection(input side)	PA	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Temperature drift protection (for the commercial unit)	Temperature drift protection	PE	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Drive board ambient temperature sensor error (for the commercial unit)	Drive board ambient temperature sensor error	PF	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
DC link high voltage protection	DC link low voltage protection	PL	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
DC link low voltage protection	DC link high voltage protection	PH	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
/	Abnormal AC input voltage	PP	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Capacitor charging error	Capacitor charging error	PU	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Jumper terminal error protection	Jumper terminal error protection	C5	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Defrosting or oil returning in heating	Defrosting or oil returning in heating	H1	/	/	Flash once	H1	Defrosting symbol displayed
/	Forcible defrosting	H1	Quick flash	/	/	H1	H1
Compressor thermal overload protection.	Compressor overload protection.	H3	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Modulecurrent protection (namely IPM protection)	IPM Module current protection	H5	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Compressor desynchronizing	Compressor desynchronizing	H7	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
PFC Protection	PFC Protection	HC	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Too high power protection (available for the residential outdoor unit)	Too high power protection (available for the residential outdoor unit)	L9	Flash 20 times	/	/	oE	oE
Compressor startup failure	Compressor startup failure	Lc	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Compressor phase failure/ reverse protection	Compressor phase failure/ reverse protection	Ld	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Compressor rotation failure(for the commercial unit)	Compressor rotation failure(for the commercial unit)	LE	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE
Over speed (for the commercial unit)	Over speed	LF	Flash 3 times	Flash 3 times	Flash 3 times	oE	oE

Short/open circuit of the temperature sensor at the inlet of the condenser coil ( for the commercial unit)	/	A5	/	/	/	/	/
Short/open circuit of the temperature sensor at the outlet of the condenser coil ( for the commercial unit)	/	A7	/	/	/	/	/
Memory card error	/	EE	/	/	/	/	/
Frequency limitation/ degradation for module circuit protection (for phase circuit)	/	En	/	/	/	/	/
Frequency limitation/ degradation for module temperature protection	/	EU	/	/	/	/	/
Frequency limitation/ degradation for overload	/	F6	/	Flash 6 times	/	/	/
Frequency limitation / degradation for circuit protection of the whole unit	/	F8	/	Flash 8 times	/	/	/
Frequency limitation/ degradation for module circuit protection (for phase circuit)	/	F9	/	Flash 9 times	/	/	/
Frequency limitation/ degradation for anti-freezing protection	/	FH	/	Flash 2 times	Flash 2 times	/	/
No indoor fan motor	/	H6	Flash 11 times	/	/	/	/
Compressor demagnetizing protection	/	HE	/	/	Flash 14 times	/	/
Indoor and outdoor units unmatched	/	LP	Flash 19 times	/	/	/	/
Compressor phase circuit detection error	/	U1	/	/	Flash 12 times	/	/
DC link voltage drop error	/	U3	/	/	Flash 20 times	/	/
Zero detection circuit error	/	U8	Flash 17 times	/	/	/	/
Nominal cooling/heating (capability test code)	/	P1	/	/	/	/	/
Max. cooling/heating (capability test code)	/	P2	/	/	/	/	/

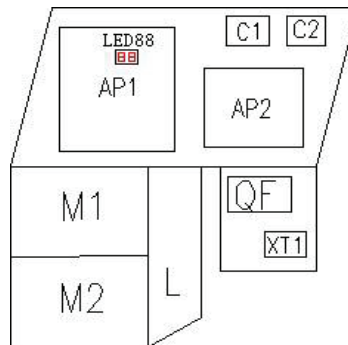
The words in gray means the corresponding function is unavailable.

Error Code	Error Description	Error Code	Error Description	Error Code	Error Description
13	Unit A indoor unit pipe outlet temperature sensor error	23	Unit B indoor unit pipe outlet temperature sensor error	33	Unit C indoor unit pipe outlet temperature sensor error
14	Unit A indoor pipe inlet temperature sensor error	24	Unit B indoor pipe inlet temperature sensor error	34	Unit C indoor pipe inlet temperature sensor error
15	Unit A indoor ambient temperature sensor error	25	Unit B indoor ambient temperature sensor error	35	Unit C indoor ambient temperature sensor error
16	Unit A mode conflict	26	Unit B mode conflict	36	Unit C mode conflict
17	Unit A anti-freezing protection	27	Unit B anti-freezing protection	37	Unit C anti-freezing protection
41	Unit D communication error	46	Unit D mode conflict	54	Unit E indoor pipe inlet temperature sensor error
42	Unit D indoor pipe midway temperature sensor error	47	Unit D anti-freezing protection	55	Unit E indoor ambient temperature sensor error

43	Unit D indoor unit pipe outlet temperature sensor error	51	Unit E communication error	56	Unit E mode conflict
44	Unit D indoor pipe inlet temperature sensor error	52	Unit E indoor pipe midway temperature sensor error	57	Unit E anti-freezing protection
45	Unit D indoor ambient temperature sensor error	53	Unit E indoor unit pipe outlet temperature sensor error	C5	Jumper terminal error

Error description of outdoor refrigerant pipe detection function

Wiring error or component error	Unit which is detecting	Unit which isn't detecting
5E	01	**
5E	02	**
5E	03	**
5E	04	**
5E	05	**
<b>Indoor unit gas pipe connection error or component error</b>	<b>Unit which is detecting</b>	--
5P	01	--
5P	02	--
5P	03	--
5P	04	--
5P	05	--



Outdoor Unit: GWHD(36)NK3AO/GWHD(42)NK3AO

(Note: Refer to the real products for the exact position of each component.)

Once errors are displayed on the controller, please shut off the air conditioning unit and contact the professionally skilled personnel for troubleshooting.