

Alarm on outdoor unit display / led	Description of the alarm	Description / Cause	Indoor units: ducted cassette ceiling/floor conv. console		Indoor unit panel display: ceiling/floor conv. console wall	Display ducted cassette	Alarm on wired controller YR-E17A HW-SA201ABK HW-BA116ABK HW-BA101ABT	Alarm on wired controller YR-E16B HW-PA201ABK	Failure on indoor/outdoor unit
			Timer (yellow)	Operate / Run (green)					
	Indoor unit ambient temperature probe faulty	Faulty sensor or short-circuit for more than 2 consecutive minutes.	0	1	E1	01	01	1	Indoor Unit
	Indoor unit exchanger temperature probe faulty.	Faulty sensor or short-circuit for more than 2 consecutive minutes.	0	2	E2	02	02	2	
	Faulty EEPROM on the indoor unit board	EEPROM faulty indoor unit board	0	4	E4	04	04	4	
	Indoor unit ice protection	Indoor unit exchanger temperature too low	0	16	E5	10	10	16	
	Communication error between indoor and outdoor units	Lack of communication for more than 4 consecutive minutes	0	7	E7	07	07	7	
	Communication error between wired controller and indoor unit	Lack of communication for more than 4 consecutive minutes	0	8	E8	08 (07 flashing light on ducted version)	08	8	
	Condensed drainage system anomaly	Open floating contact for more than 25 minutes continuously/problem in wiring between board and float	0	12	E10	0C	0C	12	
	Power supply voltage anomaly	Voltage missing, voltage out-of-limits or indoor board faulty	0	13	E3 / C1	0D	0D	13	
	Indoor unit DC fan motor faulty**	DC motor wiring interrupted, motor failure, electronic board damaged	0	14	E14	0E	0E	14	
	DC voltage too high or too low	DC voltage of DC motor inverter module too high or low	0	17			11		
	Outdoor unit generic alarm	Check outdoor unit for alarms				E20	E20		Outdoor Unit
1	Malfunctioning of the EEPROM of the outdoor unit	EEPROM outdoor unit motherboard faulty	2	1	F01	15	15	21	
2	IPM hardware (power module) overcurrent	The alarm goes out 3 times in an hour and locks the machine.	2	2	F02	16	16	22	
3	Compressor overcurrent during deceleration	Overcurrent / faulty current control / phase sequence reversed (models ON OFF)	2	3	F03	17	17	23	
4	Abnormal communication between the control board and the compressor power module	Communication failure for more than 4 minutes between motherboard and SPDU/ISPM power module	2	4	F04	18	18	24	
5	Compressor overcurrent detected by control board	The alarm goes out 3 times in an hour and locks the machine.	2	5	F05	19	19	25	
6	High DC voltage or AC voltage	Voltage above 270 V or less than 187 V	2	6	F06	1A	1A	26	
7	Compressor current sampling circuit failure	The alarm goes out 3 times in an hour and locks the machine.	2	7	F07	1B	1B	27	
8	Compressor discharge temperature protection too high	Delivery temperature above 120°. The alarm goes out 3 times in an hour and locks the machine.	2	8	F08	1C	1C	28	
9	DC fan motor failure	The alarm goes out 3 times in an hour and locks the machine.	2	9	F09	1D	1D	29	
10	Outdoor unit defrosting temperature probe faulty (Te)	Temperature probe in short circuit or open circuit within last 60 seconds	3	0	F10	1E	1E	30	
11	Compressor intake temperature probe faulty (Ts)	Temperature probe in short circuit or open circuit within last 60 seconds	3	1	F11	1F	1F	31	
12	Outdoor unit ambient temperature probe faulty (Ta)	Temperature probe in short circuit or open circuit within last 60 seconds	3	2	F12	20	20	32	
13	Compressor delivery temperature probe faulty (Td)	Temperature probe in short circuit or open circuit within last 60 seconds	3	3	F13	21	21	33	
14	PFC circuit voltage too high	DC voltage too high on the inverter module	3	4	F14	22	22	34	
15	Communication error between indoor and outdoor units	Lack of communication for more than 4 consecutive minutes	3	5	F15	23	23	35	
16	Lack of refrigerant / clogging of refrigerant delivery tube	It reports an error and stops if it detects Td-Tci>=25°C for 1 minute after the compressor starts in cooling operating mode for 10 min. The alarm goes out after 3 times in an hour and locks the machine.	3	6	F16	24	24	36	
17	4-way valve switching failure	4-way valve coil damaged, disconnected or unpowered. Mechanical failure of the 4-way valve.	3	7	F17	25	25	37	

Continuing →

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			Timer (yellow)	Operate / run (green)					
18	Loss of compressor synchronism detection	Inverter / compressor circuit failure	3	8	F18	26	26	38	Outdoor Unit
19	DC voltage or AC voltage low / PWM selection circuit error in the power module.	The alarm goes out 3 times in an hour and locks the machine.	3	9	F19	27	27	39	
20	Temperature protection of indoor unit piping too high	Check heat exchange / refrigerant charge / sensors / electronic board	4	0	F20	28	28	40	
21	Temperature protection of indoor unit piping too low	Check heat exchange / refrigerant charge / sensors / electronic board	4	1	F21	29	29	41	
22	PFC circuit overcurrent	DC overcurrent at the power module	4	2	F22	2A	2A	42	
23	Temperature too high for the power module	SPDU/ISPM module temperature too high. The alarm goes out 3 times in an hour and locks the machine.	4	3	F23	2B	2B	43	
24	Failed to start compressor / Overcurrent	The alarm goes out 3 times in an hour and locks the machine.	4	4	F24	2C	2C	44	
25	U-V-W compressor phase overcurrent / Module input overcurrent	Unbalanced phases, damaged windings on the compressor, power module	4	5	F25	2D	2D	45	
26	Lack of a phase in the power module	System reset / compressor phase check / power module failure	4	6	F26	2E	2E	46	
27	Input current verification circuit failure	Detached compressor cables / faulty amperometric control	4	7	F27	2F	2F	47	
28	No charge/faulty amperometric control	Check compressor - power module wiring	4	8	F28	30	30	48	
37	Compressor overcurrent detected by power module	Verify voltage to power module - faulty module	5	7	F37	39	39	57	
38	Power module temperature sensor failure	Sensor disconnected, broken, or poorly positioned / power module failure	5	8	F38	3A	3A	58	
39	Heat exchanger temperature sensor (TC) failure	Sensor disconnected, broken, or poorly positioned	5	9	F39	3B	3B	59	
42	High pressure switch alarm	High pressure switch unplugged/faulty/excessive refrigerant	6	2	F42	3E	3E	62	
43	Low pressure switch alarm	Low pressure switch unplugged/faulty/lack of refrigerant	6	3	F43	3F	3F	63	
44	Temperature protection of outdoor heat exchanger TC too high	Operating temperature too high, heat exchange problems, excessive refrigerant	6	4	F44	40	40	64	
45	Low system pressure protection	Operating temperature too low, heat exchange problems, low refrigerant	6	5	F45	41	41	65	

ATTENTION:

It is possible that on some outdoor unit boards, error codes are indicated with 2 LEDs (LED1 and LED2).

In this case, the reading of the flashes should be done as indicated below:

Mx10+N, where **M** is the number of flashes of LED1 and **N** is the number of flashes of LED2

Example: LED1 1 flash; LED2 7 flashes = 17 flashes (1x10+7).

Below are some models that are equipped with boards with this error-reading logic: 1U90S2SS2FA 1U105S2SS1FA 1U105S2SS2FA

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			Timer (yellow)	Operate / run (green)			Display	Power	Timer	Operate			
	Indoor unit ambient temperature probe faulty.	Faulty sensor or short-circuit for more than 2 consecutive minutes.	0	1	E1	01	E1	L	S	S	01	1	Indoor Unit
	Indoor unit exchanger temperature probe faulty.	Faulty sensor or short-circuit for more than 2 consecutive minutes.	0	2	E2	02	E2	L	A	A	02	2	
	Power supply voltage anomaly	Voltage missing, voltage out-of-limits or indoor board faulty	0	13	E3 / C1	0D					0D	13	
	EEPROM faulty indoor unit board	EEPROM faulty indoor unit board	0	4	E4	04	E4	L	A	L	04	4	
	Communication error between wired controller and indoor unit	Lack of communication for more than 4 consecutive minutes	0	8	E8	08	E8				07 lamp	8	
	Indoor unit DC fan motor faulty**	DC motor wiring interrupted, motor failure, electronic board damaged	0	14	E14	0E	E14	S	A	L	0E	14	
	Outdoor unit generic alarm	Check outdoor unit for alarms				E20	E20	S	L	A			Outdoor Unit
1	EEPROM outdoor unit faulty	EEPROM outdoor unit motherboard faulty	2	1	F12	15	F12	S	L	S	15	21	
2	Power module protection	The alarm goes out 3 times in an hour and locks the machine	2	2	F1	16	F1	A	L	L	16	22	
3	AC overcurrent protection / reversed phase sequence	Overcurrent / faulty current control / phase sequence reversed (models ON OFF)	2	3	F22	17	F22	L	L	S	17	23	
4	Communication error between motherboard and SPDU/ISPM power module	Communication failure for more than 4 minutes between motherboard and SPDU/ISPM power module	2	4	F3	18	F3	S	L	S	18	24	
5	Compressor over current / high pressure	The alarm goes out 3 times in an hour and locks the machine.	2	5	F20	19	F20	S	L	A	19	25	
6	Voltage too low / too high	Voltage above 270 V or less than 187 V	2	6	F19	1A	F19	S	L	A	1A	26	
7	Locked compressor	The alarm goes out 3 times in an hour and locks the machine.	2	7	F27	1B	F27	S	L	S	1B	27	
8	Compressor delivery high temperature protection	Delivery temperature above 120°. The alarm goes out 3 times in an hour and locks the machine.	2	8	F4	1C	F4	S	L	S	1C	28	
9	Outdoor unit DC fan motor faulty	The alarm goes out 3 times in an hour and locks the machine.	2	9	F8	1D	F8	S	L	A	1D	29	
10	Outdoor unit defrosting temperature probe faulty	Temperature probe in short circuit or open circuit within last 60 seconds	3	0	F21	1E	F21	A	A	L	1E	30	
11	Compressor intake temperature probe faulty	Temperature probe in short circuit or open circuit within last 60 seconds	3	1	F7	1F	F7	S	L	S	1F	31	
12	Outdoor unit ambient temperature probe faulty	Temperature probe in short circuit or open circuit within last 60 seconds	3	2	F6	20	F6	A	L	S	20	32	
13	Compressor delivery temperature probe faulty	Temperature probe in short circuit or open circuit within last 60 seconds	3	3	F25	21	F25	L	A	S	21	33	
15	Communication error between indoor and outdoor units	Lack of communication for more than 4 consecutive minutes	3	5	E7	23	E7	S	S	L	07	35	
16	Lack of refrigerant / clogging of refrigerant delivery tube	It reports an error and stops if it detects Td-Tci>=25 for 1 minute after the compressor starts in cooling operating mode for 10 min. The alarm goes out after 3 times in an hour and locks the machine.	3	6	F13	24	F13	S	L	A	24	36	
17	4-way valve switching failure	4-way valve coil damaged, disconnected or unpowered. Mechanical failure of the 4-way valve.	3	7	F14	25	F14				25	37	
18	Loss of compressor synchronism detection	Inverter / compressor circuit failure	3	8	F11	26	F11	S	L	S	26	38	
19	Compressor overcurrent at fixed frequency (software threshold)	The alarm goes out 3 times in an hour and locks the machine.	3	9	F28	27	F28	S	L	S	27	39	
20	Protection of indoor unit piping too high	Check heat exchange / refrigerant charge / sensors / electronic board	4	0	E9	28	E9				28	40	Indoor Unit
20	Board/terminal overheating protection	Short circuit / overheating on components	4	0	F15	28	F15	S	L	A	28	40	Outdoor Unit

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			Timer (yellow)	Operate / run (green)			Display	Power	Timer	Operate			
21	Protection of indoor unit piping too high	Check heat exchange / refrigerant charge / sensors / electronic board	4	0	E9	28	E9	A	S	L	28	40	Indoor Unit
22	Indoor unit ice protection	Indoor unit exchanger temperature too low	0	16	E5	10	E5	A	S	L	10	16	
23	SPDU/ISPM power module temperature protection	SPDU/ISPM module temperature too high. The alarm goes out 3 times in an hour and locks the machine.	4	3	F5	2B	F5				2B	43	Outdoor Unit
24	Failed to start compressor / Overcurrent	The alarm goes out 3 times in an hour and locks the machine.	4	4	F2	2C	F2	S	L	A	2C	44	
25	U-V-W compressor phase overcurrent / Module input overcurrent	Unbalanced phases, damaged windings on the compressor, power module	4	5	F23	2D	F23	S	L	A	2D	45	
26	Power module reset	Reset the faulty system / power module	4	6	F9	2E	F9				2E	46	
27	No charge/faulty amperometric control	Detached compressor cables / faulty amperometric control	4	7	F24	2F	F24	L	S	L	2F	47	
*28	Gas shortage or piping obstruction	Check refrigerant charge / refrigerant circuit obstructions											
28	Liquid pipe circuit "A" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	4	8	F10	30	F10	S	L	A	30	48	
29	Liquid pipe circuit "B" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	4	9	F16	31	F16	S	L	A	31	49	
30	Liquid pipe circuit "C" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	0	F17	32	F17	S	L	A	32	50	
31	Liquid pipe circuit "D" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	1	F18	33	F18	S	L	A	33	51	
32	Gas pipe circuit "A" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	2	F29	34	F29	S	L	A	34	52	
33	Gas pipe circuit "B" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	3	F30	35	F30	S	L	A	35	53	
34	Gas pipe circuit "C" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	4	F31	36	F31	S	L	A	36	54	
35	Gas pipe circuit "D" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	5	F32	37	F32	S	L	A	37	55	
36	Gas pipe circuit "E" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	5	6	F26	38	F26	S	L	A	38	56	
37	Outdoor exchanger temperature protection	Heat exchange problems/ temperature probe failure	5	7	F34	39	F34				39	57	
38	Power module temperature sensor failure	Sensor disconnected, broken, or poorly positioned / power module failure	5	8	F35	3A	F35	S	L	A	3A	58	
39	Piping temperature probe "TC" faulty	Sensor disconnected, broken, or poorly positioned	5	9	F36	3B	F36	S	L	A	3B	59	
40	Liquid pipe circuit "E" temperature probe faulty	Sensor disconnected, broken, or poorly positioned	6	0	F33	3C	F33				3C	60	
42	High pressure switch alarm	High pressure switch unplugged/faulty/excessive refrigerant	6	2	F39	3E	F39	S	L	A	3E	62	
43	Low pressure switch alarm	Low pressure switch unplugged/faulty/lack of refrigerant	6	3	F40	3F	F40	S	L	A	3F	63	
44	Temperature protection of outdoor heat exchanger TC too high	Operating temperature too high, heat exchange problems, excessive refrigerant	6	4	F41	40	F41				40	64	
45	Low system pressure protection	Operating temperature too low, heat exchange problems, low refrigerant	6	5	F42	41	F42				41	65	
46	Indoor - outdoor unit communication protocol incorrect	Indoor - outdoor unit communication problem (check OU-IU compatibility)	6	6	F43	42	F43				42	66	

Alarm on outdoor unit display / led	Description of the alarm	Description / Cause	Indoor unit electronic board LED		Indoor unit panel display:	Alarm on wired controller YR-E17A HW-SA201ABK HW-BA116ABK HW-BA101ABT	Alarm on wired controller YR-E16B HW-PA201ABK
			LED6	LED1			
	Indoor unit ambient temperature probe faulty	Faulty sensor or short-circuit for more than 2 consecutive minutes.	0	1	E1	01	1
	Indoor unit exchanger temperature probe faulty.	Faulty sensor or short-circuit for more than 2 consecutive minutes.	0	2	E2	02	2
	EEPROM faulty indoor unit board	EEPROM faulty indoor unit board	0	4	E4	04	4
	Indoor unit ice protection	Indoor unit exchanger temperature too low	0	16	E5	10	16
	Outdoor unit high pressure	High pressure, damaged high-pressure switch, faulty electronic board	0	6	E6	06	2
	Overcurrent protection	Abnormal supply voltage or faulty electronic board	0	7	E7	07	7
	Communication error between control panel and indoor unit electronic board	Poor connection, faulty panel board or electronic board	0	8	E8	08	8
	Communication error between indoor and outdoor units	Wrong connection, faulty indoor/outdoor unit electronic board	0	9	E9	08	9
	Indoor unit DC fan motor faulty	DC motor wiring interrupted, motor failure, electronic board damaged	0	14	EA	0E	14
	High temperature on the compressor	Damaged compressor, faulty compressor probe, electronic board	0	/	FC		
2	IPM hardware (power module) overcurrent	The alarm goes out 3 times in an hour and locks the machine	2	2	F02	16	22
3	Compressor overcurrent during deceleration	Overcurrent / faulty current control / phase sequence reversed (models ON OFF)	2	3	F03	17	23
4	Abnormal communication between the control board and the compressor power module	Communication failure for more than 4 minutes between motherboard and SPDU/ISPM power module	2	4	F04	18	24
5	Compressor overcurrent detected by control board	The alarm goes out 3 times in an hour and locks the machine.	2	5	F05	19	25
6	High DC voltage or AC voltage	Voltage above 270 V or less than 187 V	2	6	F06	1A	26
7	Compressor current sampling circuit failure	The alarm goes out 3 times in an hour and locks the machine.	2	7	F07	1B	27
8	Compressor discharge temperature protection too high	Delivery temperature above 120°. The alarm goes out 3 times in an hour and locks the machine.	2	8	F08	1C	28
8	Outdoor unit exchanger probe failure	Check interrupted or faulty probe			E4		
9	DC fan motor failure	The alarm goes out 3 times in an hour and locks the machine.	2	9	F09	1D	29
10	Outdoor unit defrosting temperature probe faulty (Te)	Temperature probe in short circuit or open circuit within last 60 seconds	3	0	F10	1E	30
11	Compressor intake temperature probe faulty (Ts)	Temperature probe in short circuit or open circuit within last 60 seconds	3	1	F11	1F	31
12	Outdoor unit ambient temperature probe faulty (Ta)	Temperature probe in short circuit or open circuit within last 60 seconds	3	2	F12	20	32
13	Compressor delivery temperature probe faulty (Td)	Temperature probe in short circuit or open circuit within last 60 seconds	3	3	F13	21	33
14	PFC circuit voltage too high	DC voltage too high on the inverter module	3	4	F14	22	34
15	Communication error between indoor and outdoor units	Lack of communication for more than 4 consecutive minutes	3	5	F15	23	35
16	Lack of refrigerant / clogging of refrigerant delivery tube	It reports an error and stops if it detects Td-Tci>=25°C for 1 minute after the compressor starts in cooling operating mode for 10 min. The alarm goes out after 3 times in an hour and locks the machine.	3	6	F16	24	36
17	4-way valve switching failure	4-way valve coil damaged, disconnected or unpowered. Mechanical failure of the 4-way valve.	3	7	F17	25	37
18	Loss of compressor synchronism detection	Inverter / compressor circuit failure	3	8	F18	26	38
19	DC voltage or AC voltage low / PWM selection circuit error in the power module.	The alarm goes out 3 times in an hour and locks the machine.	3	9	F19	27	39