

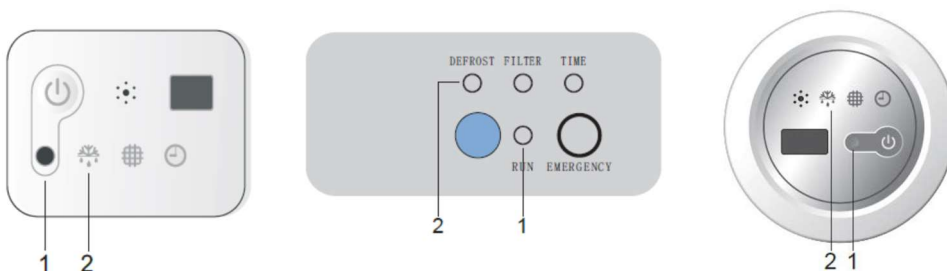
HITACHI – Primary Error Messages

Error Message: Wired Remote Controllers When an error message occurs, the display is as follows



Error message: Via device via LED display

In case of an error message, the display is as follows. The LEDs flash with pauses. The number of flashing intervals between the pauses must be counted. The pauses always last 2 seconds.



The red operating light (1) indicates the 10th error position
The defrost LED green (2) indicates the 1st error position

Error message: PCB outside 3~3.5 HP via LED display

In case of an error message, the display is as follows. The LEDs flash with pauses. The number of flashing intervals between the pauses must be counted. The pauses always last 2 seconds.

LED 1 indicates the 10th error digit

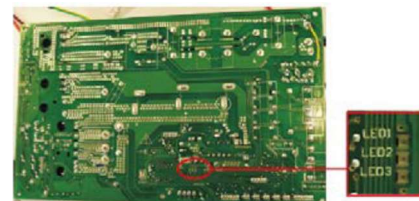
LED 2 indicates the 1st error location

LED 3 shows the inverter error code*

* LED 3 is off > LED1 and LED2 show the normal error code

LED 3 is on > LED1 and LED2 show the inverter error code

LED 3 flashes > preheating info for compressor

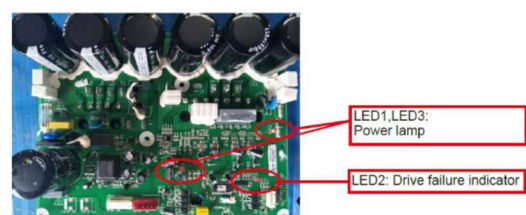
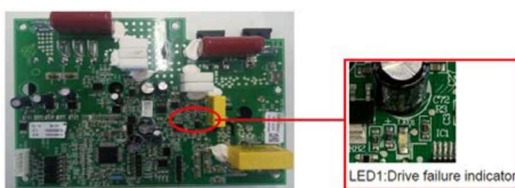


Error Message: PCB Outside 4~6.5 PS over 7 segment display

In the event of an error message, the left display shows an E.
On the right the error code itself is presented.



230V models LED1 indicates inverter error E error code



400V models LED 1 and LED2 mains voltage LED
LED 3 indicates the inverter error

HITACHI – Primary Error Messages

Error code	Description	Possible causes	Solutions
E 1	Outside temperature sensor defective	defective sensor, sensor not connected or circuit board defective	Replace or connect sensor, replace circuit board
E 2	Outside heat exchanger sensor defective	defective sensor, sensor not connected or circuit board defective	Replace or connect sensor, replace circuit board
E 3	Compressor overcurrent shutdown	Overload in heating or cooling mode, compressor defective, undervoltage, circuit board defective	Check the refrigeration circuit, change the compressor, check the wiring, replace the circuit board
E 4	EEPROM defective	EEPROM defective	Replace control board
E 5	Indoor unit: Freeze protection in cooling mode or overheat protection in heating mode	The air volume inside is too low, the room temperature is too low in cooling mode or too high in heating mode, dirty air filter, external pressure too high, fan speed too low, bad airflow	Check the complete fan unit, air distribution and all settings and room conditions. Clean the air filter, measure the air volume flow and set the fan level or external pressure
E 7	Internal-external communication error	Connection line wrong or incorrectly wired, cable break, circuit board error inside or outside, no control voltage, fuses have blown	Set up wiring according to documents and check lines, check mains voltage and all fuses, replace circuit boards as a test.
E 12	Phase error in outdoor unit	A phase of the power supply is missing, wrong sequence, circuit board error	Check voltage supply, phase to phase and to N, change phase sequence as a test, replace circuit board
E 13	Compressor overheating protection has tripped	Protective device not connected, refrigerant charge too low, E valve does not open, pipe kinked or too long (additional charge)	Connect protective device, check and top up refrigerant and refill quantity, check and change E valve
E 14	Tripping high pressure switch	High pressure switch defective or not connected. , heat exchanger dirty inside or outside (or air volume too low), overload in heating or cooling mode, refrigerant charge too high	Check pressure switch / circuit board and replace if necessary, clean heat exchanger, check fan units and setting, refrigerant charge. check temperature setting check
E 15	Trip low pressure switch	Low pressure switch defective or not connected. , heat exchanger dirty inside or outside (or air volume too low), E valve defective, incorrect refrigerant charge (too low, possibly also too high)	Check pressure switch / circuit board and replace if necessary, clean heat exchanger, check fan units and setting, refrigerant charge. check temperature setting check
E 16	Overload in cooling mode	Outside heat exchanger dirty, ambient temperature too high, device overfilled with refrigerant, outside fan unit defective...	Clean the heat exchanger, change the installation location, check the fill level and fan unit
E 17	Compressor head temperature sensor defective	defective sensor, sensor not connected or circuit board defective	Replace or connect sensor, replace circuit board
E 18	Voltage supply error inverter circuit board	AC and DC voltage are not in the normal range and deviate greatly.	Check the power supply, adjust the cable cross-section, the DC voltage must be stable.
E 19	Suction line temperature sensor defective	defective sensor, sensor not connected or circuit board defective	Replace or connect sensor, replace circuit board
E 22	Replace or connect sensor, replace circuit board	defective sensor, sensor not connected or circuit board defective	Replace or connect sensor, replace circuit board
E 45	IPM error (inverter board)	Defective IPM / Power supply or compressor faulty / See also IPM fault diagnostics.	Check power supply and compressor. Swap IPM

E	46	IPM communication error	The connecting cable between the control board and the IPM is broken or not connected. The IPM or control board is defective	Connect the connection cable between the control board and the IPM. Replace the IPM or control board.
E	47	Hot gas temperature at the compressor head or at the compressor outlet too high.	The refrigerant charge is too low or the additional charge (pipework) is not included. The expansion valve does not open or the shut-off valves are closed.	Determine, check and refill the refrigerant charge. Check system for leaks and fix. Replace expansion valve or open shut-off valves.
E	48	DC fan motor error (upstairs outdoor unit)	Fan blocked, fan broken, fan not connected, extreme wind....	Check motor and wiring, replace motor, set up protected from the wind...
E	49	DC fan motor error (outdoor unit below)	Fan blocked, fan broken, fan not connected, extreme wind....	Check motor and wiring, replace motor, set up protected from the wind...
	51	Condensate protection shutdown	Condensate float has triggered or is not connected or defective. Defrost water pump defective or drain blocked	Check condensation water level / check pump > replace / check float switch > replace / check wiring and circuit board
	55	Mode conflict error	Different operation modes have been selected on different indoor units	Switch operation mode of all indoor units equally.
	64	Communication error inside - outside	Connecting cable not correctly wired or defective. Circuit board defective inside or outside	Check connection line. Check circuit board inside or outside => replace
	71	Circuit board error (inside)	Circuit board defective, motor wiring loose, motor defective or faulty	Platine prüfen > tauschen, Motor und Anschlüsse prüfen > tauschen
	72	Fan Motor Error (Indoor)	Fan motor wiring loose, motor defective or faulty, circuit board defective	Check fan motor and connections > replace Check circuit board > replace
	73	Board error (internal/ EEPROM/ 1)	Internal control board defective	Replace internal control board
	73	Board error (internal/ EEPROM/ 2)	Internal control board defective	Replace internal control board
	81	Room air sensor indoor unit defective	The room air sensor is defective or not connected, circuit board is defective	Check room air sensor > replace or check circuit board > replace
	83	Internal heat exchanger temperature sensor defective	The heat exchanger sensor is defective or not connected, circuit board is defective	Check heat exchanger sensor > replace or check circuit board > replace
	FE (254)	Communication error between wired remote controller and control board	Connection to the cable remote control is incorrect, defective or not connected. Cable remote control or circuit board defective	Check connection to wired remote control > replace. Replace cable remote control or circuit board
	ER	Communication error between display board and control board	Connection to display board is wrong, defective or not connected. Display board or circuit board defective	Check connection to display board > replace. Replace display board or circuit board
E	91	Shutdown due to overheated IPM	Outside temperature too high, fan speed too low, mains voltage low	Check fan, check installation location, check mains voltage/supply line.
E	96	lack of refrigerant	Refrigerant charge too low, leakage, defective valves (see also error 47)	Check refrigerant charge and top-up quantity.
E	97	4-way valve error	Device cools when heating or heats when cooling. 4-way valve, coil or circuit board defective.	Check / replace 4-way valve and control completely.
E	101	Compressor current limitation	Compressor current too high, frequency or current cannot be increased further	Check compressor / check mains voltage / check IPM