

## Samsung error codes Outdoor Unit

SUB PCB				OUTDOOR UNIT
7-SEGMENT	CONTENT	MEASURES	NUMBER OF TIMES	COMPRESSOR/ OUTDOOR UNIT FAN
DIPLAY				
E 101	Indoor unit communication error(1min.)	<ul style="list-style-type: none"> <li>• Check the communication line for indoor units</li> <li>• Check the power supply of the communication phase(DC)</li> </ul>	1 Time	Operation-off
E 102	Communication time-out error(2min.)	<ul style="list-style-type: none"> <li>• Check the communication line for indoor units</li> <li>• Check the power supply of the communication phase(DC)</li> </ul>	1 Time	Operation-off
E 121	Indoor temperature sensor	<ul style="list-style-type: none"> <li>• Check the temp. sensor of the indoor unit room</li> <li>• Check the indoor PCB connector</li> </ul>	1 Time	Operation-off
E 122	Indoor unit EVA IN sensor	<ul style="list-style-type: none"> <li>• Check the indoor unit drainage pipe sensor</li> <li>• Check the indoor PCB connector</li> </ul>	1 Time	Operation-off
E 123	Indoor unit EVA OUT sensor	<ul style="list-style-type: none"> <li>• Check the indoor unit drainage pipe sensor</li> <li>• Check the indoor PCB connector</li> </ul>	1 Time	Operation-off
E 128	Dismount of indoor unit EVA IN sensor	<ul style="list-style-type: none"> <li>• Check the drainage pipe has been dismounted</li> </ul>	1 Time	Operation-off

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DIPLAY				
E 129	Dismount of indoor unit EVA OUT sensor	<ul style="list-style-type: none"> <li>• Check the drainage pipe has been dismounted</li> </ul>	1 Time	Operation-off
E 153	Secondary detection of indoor floating switch	<ul style="list-style-type: none"> <li>• Check the indoor unit's float sensor</li> <li>• Check the indoor PCB connector</li> </ul>	1 Time	Operation-off
E 154	Indoor fan error	<ul style="list-style-type: none"> <li>• Check the indoor PCB connector</li> </ul>	1 Time	Operation-off
E 162	Indoor eeprom error	<ul style="list-style-type: none"> <li>• Check the EEPROM data</li> <li>• Check the indoor's option</li> </ul>	1 Time	Operation-off
E 163	Indoor eeprom option error	<ul style="list-style-type: none"> <li>• Check the EEPROM data</li> <li>• Check the indoor's option</li> </ul>	1 Time	Operation-off
E 201	Indoor unit not connected	<ul style="list-style-type: none"> <li>• Check the indoor unit connection</li> <li>• Check the indoor unit number(multi only)</li> </ul>	1 Time	Operation-off
E 202	1min. Time out Comm. (Display Board : Onboard : Indoor ↔ Outdoor)	<ul style="list-style-type: none"> <li>• Check the indoor unit connection</li> <li>• Check the indoor unit option</li> </ul>	1 Time	Operation-off

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DIPLAY				OUTDOOR UNIT FAN
E 203	Abnormal Serial communication(Display Board: Indoor ↔ Outdoor)	-	-	-
E 221	Outdoor temp sensor error (Dual/Single)	<ul style="list-style-type: none"> <li>• Check the connection status of the sensor</li> <li>• Check the sensor location</li> <li>• Check the risistance values of sensor</li> </ul>	1 Time	Operation-off
E 237	Cond temp sensor error (Dual/Single)	<ul style="list-style-type: none"> <li>• Check the connection status of the sensor</li> <li>• Check the sensor location</li> <li>• Check the risistance values of sensor</li> </ul>	1 Time	Operation-off
E 251	Discharge temp sensor error (Dual/Single)	<ul style="list-style-type: none"> <li>• Check the connection status of the sensor</li> <li>• Check the sensor location</li> <li>• Check the risistance values of sensor</li> </ul>	1 Time	Operation-off
E 416	Discharge over temperature (Dual/Single)	-	3 Times	Operation-off
E 440	Operation condition	<ul style="list-style-type: none"> <li>• Check the operation status of operation mode</li> </ul>	1 Time	Operation-off

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	secession(HEATING)	<ul style="list-style-type: none"> <li>• Check the temp. sensor</li> </ul>		
E 441	Operation condition secession(COOLING)	<ul style="list-style-type: none"> <li>• Check the operation status of operation mode</li> <li>• Check the temp. sensor</li> </ul>	1 Time	Operation-off
E 458	Fan error	<ul style="list-style-type: none"> <li>• Check the input power connection status</li> <li>• Check the connection status between the motor and PCB in outdoor unit</li> <li>• Check the fuse of indoor/outdoor units</li> </ul>	1 Time	Operation-off
E 461	Comp Starting error	<ul style="list-style-type: none"> <li>• Check the connection status of the compressor</li> <li>• Check the resistand between different phases in compressor</li> </ul>	5 Time	Operation-off
E 462	I_Trip error / PFC Over current	<ul style="list-style-type: none"> <li>• Check the input power</li> <li>• Check the refrigerant is filled</li> <li>• Check the outdoor fan operation normally</li> </ul>	3 Time	Operation-off
E 464	IPM Over Current(O.C)	<ul style="list-style-type: none"> <li>• Check the refrigerant is filled</li> <li>• Check the connection status of compressor and if it</li> </ul>	9 Time	Operation-off

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		operates normally • Check for any obstacles around indoor/outdoor units		
E 465	Comp Vlimit error	• Check the connection status of compressor • Check the resistance between different phases in compressor	9 Times	Operation-off
E 466	DC-Link voltage under/ over error	• Check the connection of input power	-	Restart(after 3min.)
E 467	Comp rotation error	• Check the connection status of the compressor • Check the resistance between different phases in compressor	3 Times	Operation-off
E 468	Current sensor error	• Check the PCB operates normally	1 Times	Operation-off
E 469	DC-Link valtage sensor error	• Check the connection of input power	1 Times	Operation-off
E 471	OTP error	• Check the PCB operates normally	1 Times	Operation-off

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DIPLAY				
E 472	AC Line Zero Cross Signal out	• Check the connection of input power	1 Times	Operation-off
E 473	Comp Lock error	• Check the connection status of the compressor • Check the resistance between different phases in compressor	3 Times	Operation-off
E 475	Fan error(two fan outdoor	• Check the input power connection status • Check the connection status between the motor and PCB in outdoor unit • Check the fuse of indoor/outdoor units	1 Times	Operation-off
E 554	GAS Leak error(Dual/Single)	• Check refrigerant is filled • Check the indoor EVA sensor	3 Times	Operation-off
E 556	Capacity miss match	• Check the indoor unit's option code • Check the capacity of indoor unit's and outdoor unit's	1 Times	Operation-off

Wired remote controller(Option resource)  
 – If an error occurs is displayed on the wired remote controller.  
 – To see an error code, please press the test button.

ERROR MODE	CONTENT	MEASURES	PRODUCT OPERATION	ERROR TYPE
			STATUS IN CASE OF ERROR OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
101	Indoor unit communication error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
102	Communication time-out error between indoor/outdoor unit 6-packet over error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
121	Indoor temperature sensor (open/short error)	Check the temp. sensor of the indoor unit room. Check the indoor PCB connector CN21(white)	Operation-off	Indoor sensor error
122	Indoor unit Eva In sensor (open/short)	Check the indoor unit drainage pipe sensor Check the indoor PCB connector CN21 (white)	Operation-off	Indoor sensor error
128	Dismount of indoor unit Eva In sensor	Check the drainage pipe has been dismantled	Operation-off	Indoor sensor error

ERROR MODE	CONTENT	MEASURES	PRODUCT OPERATION	ERROR TYPE
			STATUS IN CASE OF ERROR OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
153	Secondary detection of indoor floating switch	Check the indoor unit's float sensor Check the indoor PCB connector CN51 (black)	Operation-off	Self-diagnosis error
201	Indoor unit not connected	Check the indoor unit connection Check the indoor unit option	Operation-off	Communication error
203	Communication error between indoor/outdoor unit INV and Main Micom (1 min.)	Check the Main MICOM Check the inverter MICOM	-	Communication error
221	Outdoor temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
237	Cond. temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error



ERROR MODE	CONTENT	MEASURES	PRODUCT OPERATION	
			STATUS IN CASE OF ERROR	ERROR TYPE
			OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
251	[inverter] Emission temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
416	Excessive temperature emission	Not an error (discharge temp. control)	-	Outdoor unit protection control error
425	Power cable connection error	Check the status of power connection	Operation-off	Outdoor sensor error
450	Non-connection error of indoor and outdoor Communication wire (connected to the power terminal)	Check the status of power connection Check the connection status of the communication line	Operation-off	Self-diagnosis error
458	Outdoor fan 1 error	Check the input power connection status Check the connection status between the motor and PCB in outdoor unit	Operation-off	Self-diagnosis error

ERROR MODE	CONTENT	MEASURES	PRODUCT OPERATION	
			STATUS IN CASE OF ERROR	ERROR TYPE
			OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
		Check the fuse of indoor/outdoor units		
461	[inverter] Compressor operation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
462	Discharge current error/ PFC over-current error	Check the input power Check refrigerant is filled Check outdoor fan operates normally	Operation-off	Outdoor unit protection control error
464	[inverter] IPM over current error	Check refrigerant is filled Check the connection status of compressor and if it operates normally Check for any obstacles around indoor/outdoor units	Operation-off	Outdoor unit protection control error
467	[inverter] Compressor rotation error	Check the connection status of the compressor	Operation-off	Outdoor unit protection control

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			STATUS IN CASE OF ERROR OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
		Check the resistance between different phases in compressor		error
468	[inverter] Current sensor error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
469	[inverter] DC link voltage sensor error	Check the connection of input power Check the status of RY21 and R2000 of Inverter PCB	Operation-off	Outdoor unit protection control error
416	[inverter] OTP error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
475	Outdoor fan 2 error	Check the connection status of input power Check the connection status of motor and outdoor PCB	Operation-off	Self-diagnosis error

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			STATUS IN CASE OF ERROR OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
		Check the fuse of indoor/outdoor unit		
554	Gas leakage error	Check refrigerant is filled Check the indoor EVA sensor	Operation-off	Self-diagnosis error
556	Inconsistent volume	Check the indoor unit's option code	Operation-off	Outdoor unit protection control error
601	Communication error between indoor unit and wired remote controller	Check the connection wire linking indoor unit and wired remote controller	Normal operation	Wired remote controller control error
602	Communication error between master and slave wired remote controller	Check the option switch that distinguishes master and slave (Available only for 1 master unit and 1 slave unit)	Normal operation	Wired remote controller control error
606	Cross installation error of COM1/COM2	Check the connection of outdoor unit and wired remote controller is linked to Com2	Normal operation	Wired remote controller control error

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			STATUS IN CASE OF ERROR	
			OUTDOOR UNIT COMPRESSOR/ OUTDOOR UNIT FAN	
		terminal of the indoor unit		error
EA	Wired remote controller COM2 setting option error	Check the Dip switch for Com1 and Com2 is set to Com2	Normal operation	Wired remote controller control error