

4-2 Display Error and Check Method

4-2-1 Display Error mode

Error Mode				Cause	Follow-up Measures	operation				Trouble Shooting																			
Indoor 7-Segment	Outdoor LED					Comp.	Outdoor Fan	Indoor Fan	MPI																				
	Y	G	R																										
E 101				no display	1min.Time out Communication (Indoor detection)	- Check the connector of indoor-outdoor cable - Check the fuse	OFF	OFF	OFF	Continue	4-3-1																		
E 121				no display	Indoor Temperature Sensor Error (OPEN/SHORT)	- Check assembling status of the sensor part's connector on the indoor unit main PCB - Measure the resistance value on both sides connector no. 1 and no. 2 (E121), no. 3 and no. 4 (E122) - by separating the sensor part's connector	OFF	OFF	OFF	Continue	4-3-2																		
E 122				no display	Indoor Heat Exchanger Temperature Sensor Error (OPEN/SHORT)	<table border="1"> <thead> <tr> <th>Temp. (°C)</th> <th>Resistance Valve(KΩ)</th> <th>Temp. (°C)</th> <th>Resistance Valve(KΩ)</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>14.68</td> <td>30</td> <td>8.31</td> <td rowspan="3">The error of DATA is ±2%.</td> </tr> <tr> <td>20</td> <td>12.09</td> <td>35</td> <td>6.94</td> </tr> <tr> <td>25</td> <td>10.00</td> <td>40</td> <td>5.83</td> </tr> </tbody> </table> <p>* If not meet the above DATA, replace sensors.</p>	Temp. (°C)	Resistance Valve(KΩ)	Temp. (°C)	Resistance Valve(KΩ)	Others	15	14.68	30	8.31	The error of DATA is ±2%.	20	12.09	35	6.94	25	10.00	40	5.83	OFF	OFF	OFF	Continue	4-3-3
Temp. (°C)	Resistance Valve(KΩ)	Temp. (°C)	Resistance Valve(KΩ)	Others																									
15	14.68	30	8.31	The error of DATA is ±2%.																									
20	12.09	35	6.94																										
25	10.00	40	5.83																										
E 154				no display	Indoor Fan Motor Speed Detecting Error (Occur when it continues for 15 ssecond at below 450rpm)	- Check assembling status of the Motor Hall IC output connector (CN44) on the indoor unit main PCB	OFF	OFF	OFF	OFF	4-3-4																		
E 162				no display	EEPROM Error		OFF	OFF	OFF	OFF																			
E 186				no display	MPI Feedback Error	- Check the assembly status of the mpizone connector (CN6601) - Change the mpizone	Continue	Continue	Continue	OFF	4-3-5																		
All blink				no display	Option is erased or wrong option code is input	-Reset remote-control option code	OFF	OFF	OFF	OFF																			
E 102	○	●	●		1min. Time out Communication (Outdooe detection)	- Check the connector of indoor-outdoor cable - Check the fuse	OFF	OFF	OFF	Continue	4-3-1																		
E221	○	○	○		Outdoor temp sensor error	- Check the assembling statue of sensor parts on the outdoor PCB	OFF	OFF	OFF	Continue	4-3-6																		
E237	○	●	○		Coil temp sensor error	E221 : CN54 PIN#1,#2 E237 : CN54 PIN#5,#6	OFF	OFF	OFF	Continue	4-3-7																		
E251	○	○	○		Discharge temp sensor error	E251 : CN54 PIN#3,#4	OFF	OFF	OFF	Continue	4-3-8																		
E416	○	○	●		Discharge over temperature	- Check the assembling statue of sensor parts on the outdoor PCB CN54 PIN#3,#4	OFF	OFF	OFF	Continue	4-3-9																		
E458	●	○	○		Outdoor Fan error	- Check the fan was locked. - Check the assembling status of Fan connector(CN01) the outdoor PCB - Check the wire color of fan connector	When it occur first, it shows Error. After 10 minutes, it can be operating.			Continue	4-3-10																		



Error Mode				Cause	Follow-up Measures	operation				Trouble Shooting									
Indoor 7-Segment	Outdoor LED					Comp.	Outdoor Fan	Indoor Fan	MPI										
	Y	G	R																
E461	○	○	○	Comp Starting error	- Check the compressor and PCB cable - Check the wire color <table border="1"> <tr> <td>COMPRESSOR</td> <td>U</td> <td>V</td> <td>W</td> </tr> <tr> <td>COLOR</td> <td>RED</td> <td>BLU</td> <td>YEL</td> </tr> </table> - Check the interphase resistance of compressor normal	COMPRESSOR	U	V	W	COLOR	RED	BLU	YEL	When it occur first, it will be trying to operate maximumly five times at one-minute interval. If it fail, it operates after 3 minutes. When this occur five times, it shows Error.				Continue	4-3-11
COMPRESSOR	U	V	W																
COLOR	RED	BLU	YEL																
E462	●	○	●	I_Trip error / PFC Over current	-	When it occur first, it operates after 3 minutes. When this three times, it shows Error.				Continue	4-3-12								
E464	○	○	○	IPM Over Current(O.C)	-Check the Shunt-R(R418) resistance	When it occur first, it operates after 3 minutes. When this nine times, it shows Error.				Continue	4-3-13								
E465	○	●	○	Comp Vlimit error	- If it occur again after resetting the power, change PBA. - If it occur again even though PBA was changed, change Compressor.	When it occur first, it operates after 3 minutes. When this nine times, it shows Error.				Continue									
E467	●	○	●	Comp rotation error	- Check the wire color <table border="1"> <tr> <td>COMPRESSOR</td> <td>U</td> <td>V</td> <td>W</td> </tr> <tr> <td>COLOR</td> <td>RED</td> <td>BLU</td> <td>YEL</td> </tr> </table>	COMPRESSOR	U	V	W	COLOR	RED	BLU	YEL	When it occur first, it operates after 3 minutes. When this three times, it shows Error.				Continue	4-3-14
COMPRESSOR	U	V	W																
COLOR	RED	BLU	YEL																
E468	○	○	●	current sensor error	-Check short or open in every component around IC451 and IC452	OFF	OFF	OFF	Continue	4-3-15									
E469	●	○	○	DC-Link valtage sensor error	-Measure the resistance : R113~R116	OFF	OFF	OFF	Continue	4-3-16									
E471	●	○	○	OTP error	- Impossible to check EEPROM loading data check - Change the PBA	OFF	OFF	OFF	Continue	4-3-17									
E472	●	●	○	AC Line Zero Cross Signal out	- Check the assembly condition of peripheral reference number 200~	OFF	OFF	OFF	Continue	4-3-18									
E554	●	●	○	GAS Leak error	- Check the sensor connection - Check the pipe leak - Check the refrigerant of compressor	When it occur first, it operates after 3 minutes. When this three times, it shows Error.				Continue	4-3-19								
E556	○	○	○	capacity miss match	- Reset remote-control option code	OFF	OFF	OFF	Continue	4-3-20									
E466	○	●	○	DC-Link voltage under/over error		it operates after 3 minutes.													
E440 / E441	●	○	○	Operation Condition Error	If outside temperature come back within the normal range, it operates.	OFF	OFF	OFF	Continue										

ERROR MODE				DESCRIPTION
AQV**E**	AQV**U** , KFR			
7-Seg	Oper	Timer	Smart Saver	
E101	X	○	○	Communication error (indoor<->outdoor) Pre power relay error
E121	X	○	X	Indoor room temp sensor error
E122	○	○	X	Evap in temp sensor error
E154	X	X	○	Fan error(indoor)
FROM E200	○	X	○	Outdoor error display
E162	○	○	○	EEPROM error
All Lamp Blink	○	○	○	Option error
E142	No Used			Humidity sensor error (In test mode)
E186	No Used			MPI error

- LED ON
- LED BLINKING
- X LED OFF