

## 5. Troubleshooting

### ■ Detection of errors

- If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

### 5-1 LED Display on the receiver & display unit









#### ■ LED Display

Abnormal conditions	Indicators					Operating
	Concealed Type		Blue	Red	Standard Type	
	Blue	Red				
	Standard Type	Concealed Type	Blue	Red	Standard Type	
Power reset	●	×	×	×	×	
Error of temperature sensor in indoor unit (OPEN/SHORT)	×	×	●	×	×	Displayed on appropriate indoor unit which is operating
Error of heat exchanger sensor in indoor unit (OPEN/SHORT)	●	×	●	×	×	Displayed on appropriate indoor unit which is operating
Error of outdoor temperature sensor Error of COND sensor Error of DISCHARGE sensor (OPEN/SHORT)	●	×	×	●	×	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minute error 4. When sending the communication error from outdoor unit the mismatching of the communication numbers and installed numbers after completion of tracking. (communication error for more than 2 minutes)	×	×	●	●	×	1. Error of indoor unit: Displayed on the indoor unit regardless of operation 2. Error of outdoor unit: Displayed on the indoor unit which is operating
1. Communication error between indoors (Communication error for more than 2 minutes) 2. Slave of indoor unit tracking error	●	×	×	×	●	Error of indoor unit: Displayed on the indoor unit regardless of operation

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

● : On   ● : Flickering   × : Off

■ LED Display(cont.)

Abnormal conditions	Indicators					Operating
	Concealed Type					
	Blue	Red				
	Standard Type					
						
1. 2nd detection of high temperature COND 2. 2nd detection of high temperature DISCHARGE 3. Error of reverse phase	×	×	●	●	●	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
Error of float switch	×	×	×	●	●	
Error of setting option switches for optional accessories	×	×	●	×	●	
EEPROM error	●	×	●	●	×	
EEPROM option error	●	●	●	●	●	

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off. ● : On ○ : Flickering × : Off  
 - If you re-operate the air conditioner, it operates normally at first, then detect an error again.

## 5-2 Outdoor Unit

If an error occurs during the operation, it is displayed on the outdoor unit PCB.

Display	Explanation	Remark
<i>E<sub>r</sub></i> → <i>P0</i>	High temperature of Discharge (Protection control)	Error about protection control of outdoor unit
<i>E<sub>r</sub></i> → <i>P1</i>	High temperature of outdoor heat exchanger (Protection control)	
<i>E<sub>r</sub></i> → <i>P5</i>	COMP DOWN to protect being frozen	
<i>E<sub>r</sub></i> → <i>P6</i>	Error of momentary power failure (disappears when the unit is Off/On)	
<i>E<sub>r</sub></i> → <i>t1</i>	Error of OUT TEMP sensor (OPEN/SHORT)	Errors about outdoor unit sensor (OPEN/SHORT) Detection during the operation of indoor unit (Sensing and sending errors into the communication data)
<i>E<sub>r</sub></i> → <i>t2</i>	Error of temperature sensor in outdoor heat exchanger (OPEN/SHORT)	
<i>E<sub>r</sub></i> → <i>t3</i>	Error of Discharge TEMP sensor (OPEN/SHORT)	
<i>E<sub>r</sub></i> → <i>E1</i>	System Down caused by communication error after completion of tracking	Communication and indoor unit errors
<i>E<sub>r</sub></i> → <i>E2</i>	Mismatching of the indoor unit numbers set with those communicated after completion of tracking	
<i>E<sub>r</sub></i> → <i>E3</i>	Error of float switch in indoor unit	Self-diagnosis of indoor and outdoor unit (x:indoor unit address)
<i>E<sub>r</sub></i> → <i>E5</i>	Error of setting option switches for optional accessories	
<i>E<sub>r</sub></i> → <i>qx</i>	OPEN/SHORT error of room sensor in indoor unit	
<i>E<sub>r</sub></i> → <i>rx</i>	OPEN/SHORT error of eva in sensor in indoor unit	
<i>E<sub>r</sub></i> → <i>Ux</i>	EEPROM option error	Displays of operating status
<i>E<sub>r</sub></i> → <i>ux</i>	Error of fan starting	
<i>E<sub>r</sub></i> → <i>G4</i>	Open error of electronic expansion valve in outdoor unit (Detected once or more times)	
<i>E<sub>r</sub></i> → <i>G5</i>	Close error of electronic expansion valve in outdoor unit (Detected once or more times)	
<i>tU</i> Flicker	Below -5°C when cooling (Outdoor temperature)	
<i>tO</i> Flicker	Over 30°C when heating (Outdoor temperature)	
K1, K2, K3, K4, K5 Flicker		

The order of priority : E1 → E2 → E4 → E5 → P0 → P1 → P5 → P6 → t1 → t2 → t3 → tu → to → G4 → G5 → E3 → qx → rx → vx → K1, K2, K3, K4, K5  
 - In case that the same error displays from multi-indoor units, the one having the faster address has the priority.

# MEMO