

6.1 Diagnostic

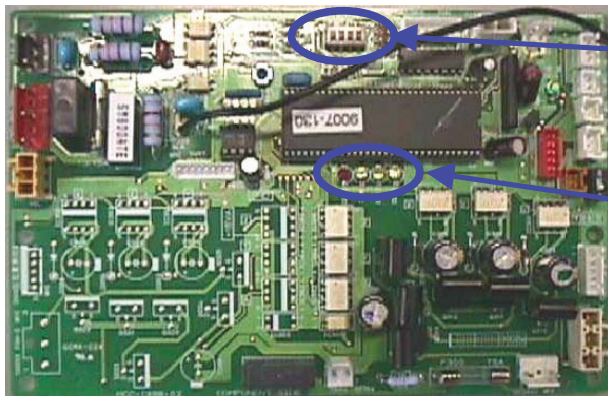
Outdoor unit (VYX080, 110, 130) <SW800: LED display in bit 1, bit 2, bit 3, bit 4 OFF>

Troubles of the outdoor unit can be diagnosed by LED indications on the cycle control P.C. board of the outdoor unit. When multiple errors are detected, the latest error is displayed.

- When LED display is "O" (Go on), there is the main cause of trouble on the objective part of control at CDB side and the unit stops.
- When LED display is (Flash), there is the main cause of trouble on the objective part of control at IPDU side and the unit stops.
- When compressor case thermostat operates, the communication is interrupted on the serial circuit. If the case thermostat operation happens continuously, a serial communication error occurs because of a serial message has been sent to the indoor unit.

LED indication and code checking

LED indication	Cycle control P.C. board				Cause	Code No
	LED indication					
	D800	D801	D802	D803		
D800 O: Red D801 O: Yellow D802 O: Yellow D803 O: Yellow ◇: Flashing ●: Off ○: On	○	●	●	●	Heat exchanger sensor (TE) error	1
	●	●	○	●	Suction sensor (TS) error	2
	○	○	●	●	Hot gas discharge sensor (TD) error	3
	●	○	●	○	High-pressure protection error	4
	●	○	●	●	Outdoor air temperature sensor error (TO)	5
	○	○	○	●	Outdoor DC fan motor error	6
	○	●	●	○	Communication error between IPDU (Abnormal stop)	7
	●	○	●	○	High-pressure release operation	8
	●	○	○	●	Discharge temp. error: hot gas is too high	9
	○	○	●	○	EEPROM error	10
	●	●	○	○	Communication error between IPDU (No abnormal stop)	11
	◇	●	●	●	G-Tr short-circuit protection	12
	●	◇	●	●	Detect circuit error	13
	◇	◇	●	●	Current sensor error	14
	●	●	◇	●	Comp. lock error	15
	◇	●	◇	●	Comp. break down	16



SW800

LED indication

Outdoor unit (VYX050)

WARNING

Troubles of the outdoor unit can be diagnosed by LED indications on the indoor unit only.

Indoor unit (40KQV, 42PQV, 42VQV)

The indoor unit can detect any system fault and stop it immediately. The failure is recoverable based on the table below.

When a diagnostic is active, the green LED (P) and the yellow LED (R) [orange on 42PQV] blink 0.1 seconds on, 0.1 seconds off and indicate a fault code.

The yellow LED (R) indicates the tens digits.

The green LED (P) indicates the unit digits.

Two seconds elapse between the yellow LED and the green LED lighting.

The sequence ends with both LEDs off for 4 seconds.

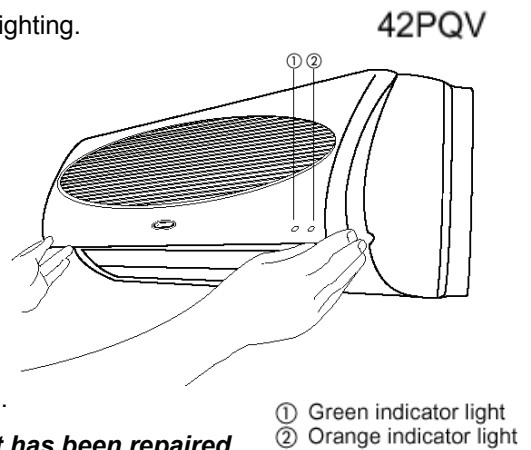
Example:

Fault code 12

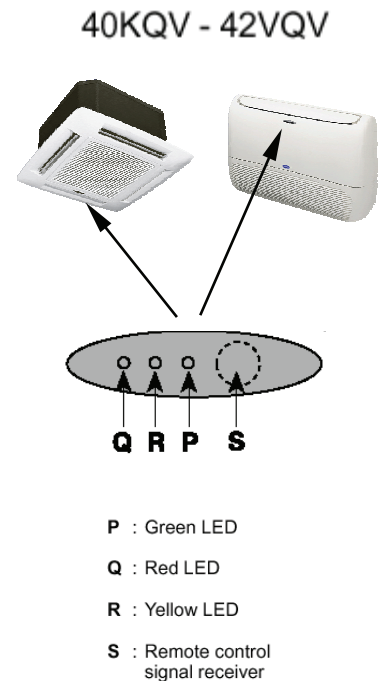
- The yellow LED blinks (it indicates the tens digits).
- Both LEDs are off for 2 seconds.
- The green LED blinks twice with a 0,5 seconds frequency.
- Both LEDs are off for 4 seconds.

If the fault code is lower than 10, the yellow LED (R) is not blinking.

The fault sequence described above is repeated until the fault has been repaired.



Code Description	
2	Condensate Pump Failure or water drain Failure
3	Indoor unit Room Air sensor fault
4	Indoor unit Tc Coil sensor fault
10	Indoor unit software fault (EEPROM Corrupt)
12	Indoor unit software fault (Address / Zone Corrupt)
14	Loss of Signal From CDU
15	Indoor unit Tcj Coil sensor fault
18	Outdoor unit control box fault (G-Tr short circuit protection)
20	Position Detection Circuit Error
21	Outdoor unit Current Sensor fault
22	Outdoor unit Heat Exchange Sensor fault
23	Outdoor unit Discharge Temperature Sensor fault
24	Outdoor unit Fan fault
26	Other Outdoor unit fault
27	Outdoor unit Compressor Lock
28	Outdoor unit Discharge Temperature fault
29	Outdoor unit Compressor Breakdown
31	Outdoor unit High Temperature/Pressure Release



Indoor unit (40SQV without infrared receiver option)

The indoor unit can detect any system fault and stop it immediately. The failure is recoverable based on the table below.

When a diagnostic is active, the red LED [**LED1**] mounted on main board starts to blinking at a rate of 0.5 seconds showing a fault code assigned at a specific damage.

- The red LED will show the fault code from 1 to 10 in the following sequence:
4 seconds “Off” followed with a number of blinking equal to the code number.

- The red LED will show the fault code greater than 10 in the following sequence:
4 seconds “Off” followed with a number of blinking equal to the first digit of code number.
Successively, the red LED will remain 2 seconds “Off” followed with a number of blinking equal to the second digit of code number.

The fault sequences described above is repeated until the fault has been repaired.

Code Description	
2	Condensate Pump Failure or water drain Failure
3	Indoor unit Room Air sensor fault
4	Indoor unit Tc Coil sensor fault
10	Indoor unit software fault (EEPROM Corrupt)
12	Indoor unit software fault (Address / Zone Corrupt)
14	Loss of Signal From CDU
15	Indoor unit Tcj Coil sensor fault
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21	Outdoor unit Current Sensor fault
22	Outdoor unit Heat Exchange Sensor fault
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27	Outdoor unit Compressor Lock
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