

Configuration of switches, failures (lock-outs) and incidents

Microswitches configuration:

These establish the following setups:

Number	State	Meaning
1 / 2	OFF/OFF	Ignore SW, programmed by communications
	ON/OFF	Defrost time 30'
3	OFF/ON	Defrost time 60'
	ON/ON	Defrost time 90'
3	ON	Crossed coils
	OFF	Independent coils
4	ON	Compressor time delay at start -up 2'
	OFF	Compressor time delay at start -up 5'
5	ON	Cooling only selection
	OFF	Heat pump selection
6	ON	4-way valve ON in heat pump mode
	OFF	4-way valve ON in cooling only mode
7	ON	Thermostat with signal B (ON in heat pump mode)
	OFF	Thermostat with signal O (ON in cooling only mode)
8	ON	Indoor Fan ON in defrost mode
	OFF	Indoor Fan OFF in defrost mode

Failures

These are indicated by the red LED on the YKlon board. If no failure is present, this LED remains OFF permanently. When a failure occurs, this LED flashes in two sequences. The first indicates the compressor affected: One flash for compressor 1, two flashes for compressor 2, three flashes for compressor 3 and four flashes for accessories, followed by a short pause. The second indicates the cause of the failure.

Failures table (Red LED)

Flashes	Meaning
1	Discharge temperature exceeded
2	High pressure switch
3	Low pressure switch
4	Indoor fan thermal switch
5	Repeated start ups in cool or suction temperature <-25°C
1	Failure of gas control 1 or heater 1
2	Failure of gas control 2 or heater 2
3	Stage failure of heater 3
4	Stage failure of heater 4
5	Failure of economizer or HW coil (impulse, outdoor, return, water probe)
6	Detection of smoke or high temperature

Incidents

Incidents are indicated by the green LED on the YKlon board. If no incidents is present, this LED flashes at a constant frequency. When an incident occurs, the LED flashes in three sequences. The first indicates the compressor affected: one flash for compressor 1, two flashes for compressor 2, three flashes for compressor 3 and four flashes for others, followed by a short pause. The second and third indicates the cause of the incident.

Table of incidents (Green LED)

Flashes	Type	Incident
1	1	Discharge probe open or short circuited
2	2	Liquid probe open or short circuited
3	3	Suction probe open or short circuited
or		
3	2	Repeated defrost cycles
2	1	Temperature
1	1	Discharge temperature doesn't recuperate
2	2	Impulsion probe open or short circuited
3	3	Return probe open or short circuited
4	4	Outdoor probe open or short circuited
5	5	Water probe open or short circuited
2	1	Error in enthalpy probes
3	2	Signal Y1 or Y2 without signal G
4	3	Signal W without signal B
5	4	Signal W without signal G
4	3	Signal Y2 or Y2 without Y1
3	2	Thermal switch of heater 1
4	3	Thermal switch of heater 2
4	4	Thermal switch of heater 3
4	4	Thermal switch of heater 4
2	1	Water coil temperature not recuperating
3	2	Outdoor temperature too low
4	3	Water coil in defrost cycle
5	4	Impulse temperature above 80°C
1	1	ID transceiver unknown
2	2	At least one accessory not found
3	3	Call for air quality
4	4	Dirty filters
5	5	Presence sensor set to unoccupied

Test push-button

-Also shortens certain timings and resets any failure detected if pressed until the green LED goes ON.
 -Also identifies optional accessories and probes connected to the board when pressed and held until the red LED goes ON.
 - Operates as a LonWorks pin service button. When pressed it sends the Neuron ID through the LonWorks network.
 - If the module is powered with this push-button pressed and held for over 3 seconds, the setup of the node is cancelled (only used by authorized staff).

Thermostat DPC-1

When occurs a failure, and there is communication, the thermostat indicates time and failure (according to the failures table). Also indicates others incidents of the thermostat.

Type	Thermostats numbers	Incident	
Thermostat	9	1	Ambient probe open or short circuited
	9	2	Internal probe not calibrated
	9	3	Error in communication
	9	4	Outdoor failure

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