

PCPM4S2

This device controls the carbonator pump that fills the carbonator tank, an solenoid valve and a recirculation pump. The demand for filling is detected by carbonator tank level probes. Water inlet pressure is monitored with a pressure sensor.

Please note that there is always a 60s delay before the machine starts after plugging it in.

Min. pressure on water inlet for the carbonator pump to start: 1,5 bar

Min. pressure when carbonator pump is running: 0,6 bar

If the pressure drops below 0,6 bar during operation the pumps, both the carbonation and recirculation pumps will stop.

After 60 seconds the pump will start again if the inlet pressure is 1,5 Bar or above.

If carbonator pump is running for more than 15 seconds with the water level under the minimum level, the recirculation pumps will stop to avoid running dry, it will start again when the water level reaches above the minimum level.

To prevent from major water damage from a leak in the system, the max runtime of the carbonation pump is limited to 240 seconds. Activated if pressure sensor is not present or pressure sensor error.

After this period of time the pumps will set off the alarm and stop. The pumps will have to be reset manually. (Turn the switch off-on)



GREEN – Everything is OK.

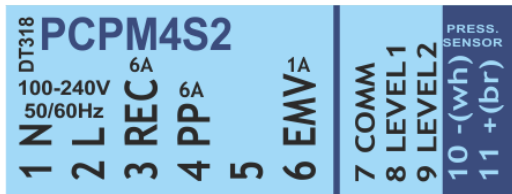
WHITE – Pressure sensor error or not present

BLUE – Carbonator pump running

MAGENTA – Recirculation pump is stopped. Carbonator tank level has been below the lower probe level for more than 15s. Carbonator pump is running.

YELLOW – Water inlet pressure is too low, carbonator pump does not start (or stops in case it's running) and recirculation is stopped.

RED – Carbonator pump has been running for more than 240 seconds. The pump will have to be reset manually. (Turn the switch off-on)



1 N – neutral (power supply)

2 L – Line (power supply)

3 REC – recirculation pump output

4 PP – carbonator pump output

5

6 EMV – solenoid valve output

7 COM – common contact for the carbonator level probe

8 LEVEL1 – one of the carbonator level probes

9 LEVEL2 – one of the carbonator level probes

10 -(wh) – sensor return signal

11 +(br) – Sensor power 12VDC