

P.I.C.R.O.S. CONTROLLER

3130 AND 5150 VERSIONS



P.I.C.R.O.S. AUTOMATIC CONTROLLER

Used for the automation of systems with repetitive applications such as the control of a reverse osmosis system.

Programmable system for action and control of 3 or 5 devices such as pumps, valves or alarms, and 3 or 5 control signals such as pressure switches, level switches or external dry contacts, in addition, it has 8 configuration switches, reset and audible alarm.

FEATURES

- Membrane rinse at the beginning and at the end of the stages
- Delayed pump start
- Low-pressure feed shut-down with alarm
- Flushing
- Membrane rinse using permeate water
- Capacity to control each pump and valve manual/off/auto

INPUT SIGNALS

- I1 External pause
- I2 Feedwater low-pressure switch
- I3 Rinse water tank level
- I4 Product water tank level
- I5 Feedwater tank level

OUTPUT SIGNALS

- O1 Rinse water line (pump and valve)
- O2 Feedwater line (pump and valve)
- O3 Flush valve
- O4 High-pressure pump
- O5 Additional

SEQUENCES

Start-up and shut down

Start and rinse (T1)

Service loop (T2) - Rinse (T3)

Rinse (T1) - Shut down

Fail sequence

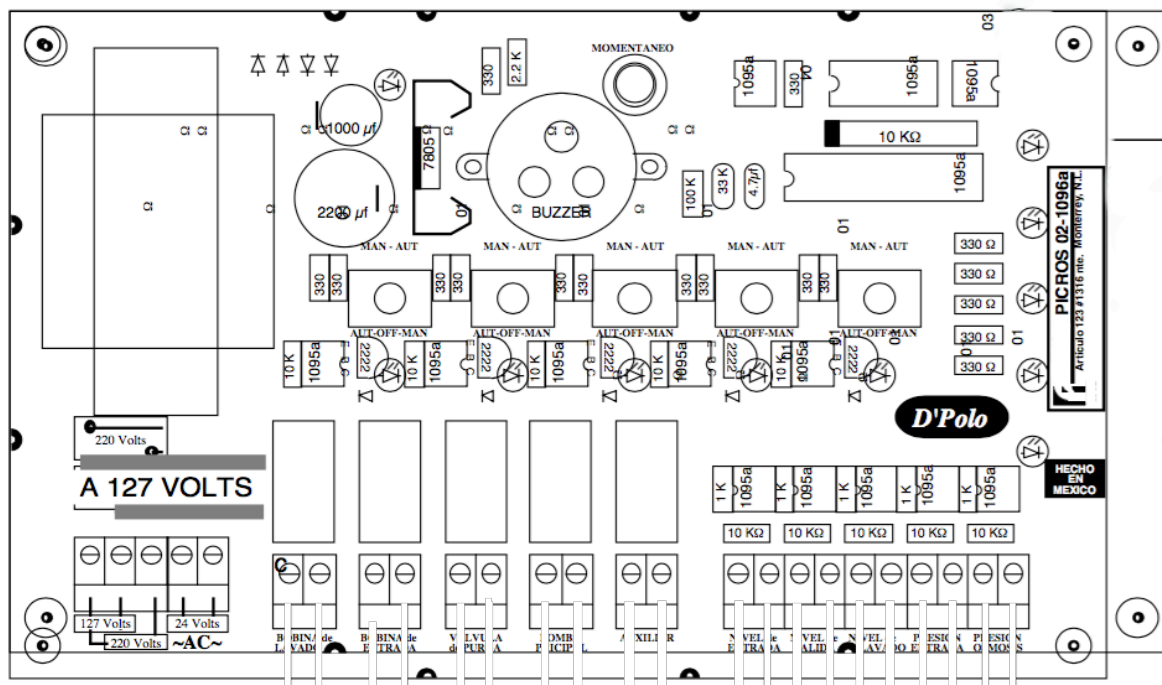
Turn buzzer on and turn off all of the outputs, chip is reseted using reset button

DIP SWITCH

	ON	OFF
D1	Buzzer on	Buzzer off
D2	Reset on	Reset off
D3	T1: 5 min, T3: 1 min	T1: 2 min, T3: 1 min
D4	T2: 8 h	T2: 1 h
D5	Service stage on	Rinse stage on
D6	None	All
D7	Rinse stage using feedwater	Flush using rinse water
D8	Start up high-pressure pump during rinse stage	Shut down high-pressure pump

STAGES

INITIAL AND FINAL STAGE	RINSE STAGE	SERVICE STAGE
Rinse water valve open during 15 seconds Skip by pressing reset button	Time: T1 (at the beginning and at the end of the cycle) Time: T3 (intermediate stages) Turn O1 on (if I3 is off, uses O2) or O2 (according to D7) Turn O4 on (according to D8 and time delay) Turn O5 on (according to D5) Skip by pressing reset button	Time: T2 Turn S2 on Turn O4 on (time delay) Turn O5 on (according to D5) Skip by pressing reset button



Output Voltage signal (127 VAC / 220 VAC / 24 VCC) to rinse water valve	Input 1 Dry contact switch for external pause
Output 2 Voltage signal (127 VAC / 220 VAC / 24 VCC) to feedwater valve	Input 2 Dry contact switch for low pressure feed
Output 3 Voltage signal (127 VAC / 220 VAC / 24 VCC) to flush valve	Input 3 Dry contact switch for rinse water tank level
Output 4 Voltage signal (127 VAC / 220 VAC / 24 VCC) to high-pressure pump	Input 4 Dry contact switch for product water tank
Output 5 Voltage signal (127 VAC / 220 VAC / 24 VCC) to dosing pump	Input 5 Dry contact switch for feedwater tank level