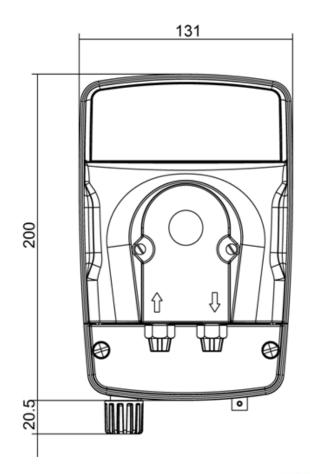


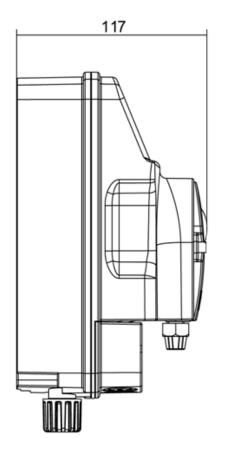
TATRON D.S.





TATRON D.S.









There a	MAX	MAX	Net	MAX Overall Dimensions		Absorbed	Rotation	Tube	
Туре	Flow	Pressure	Weight	Height	Width	Depth	Power	Speed	Size
ePool	1/h	Bar	Kg	mm	mm	mm	Watts	rpm	mm
	1,5	1,5	1,5	220	131	117	10	20	4.8X8.0
	3,0	1,5	1,5	220	131	117	10	20	4.8X8.0
	2	2	1,5	220	131	117	10	40	4.8X8.0
	3	3	1,5	220	131	117	10	40	4.8X8.0

- **✓** Redox or pH functions
- ✓ Power supply 220-240V
- ✓ Display 2 lines 16 characters with backlight
- √ 7 languages available:
 - ✓ Spanish, English, Portuguese, French, German, Dutch, Italian
- ✓ Proportional dosing by time
- ✓ Calibration Single or 2 point

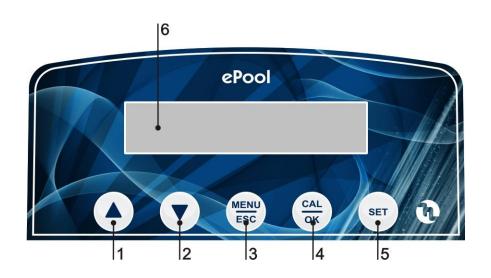




- ✓ Alarm relay output: related to the volume dosed maximum 6 ltr for 4 hours.
- ✓ Connection to the recirculation pump power supply to allow the dosing
- **✓** Level probe connector available or proximity sensor connection
- ✓ Probe quality test at each calibration displayed in percentage: below 25% it is necessary to renew the probe
- ✓ Allowed set point for the pH from 6.8 to 7.8 pH
- ✓ Allowed set point for the Redox from 300 to 900 mV







- 1 Button to increase the value
- 2 Button to decrease the value
- 3 Button MENU/ESC
- 4 Button to CAL/OK
- 5 Button Setpoint
- 6 Digital display



OVERDOSING ALARM

If the value of the measure is below 5 pH or higher of 9 pH, the display will show a message of error low or high concentration of the acid in the swimming pool. For the REDOX the only type of disinfection is only oxidant direction giving low error readings for values of mV below 100.

STAND-BY

Press and hold at the same time arrow up and arrow down. Repeat the operation to take the ePool out of Standby mode.

PRIMING

With the pump in stand-by at the same time press MENU/ESC and CAL/OK.



SELECTING THE SET POINT

Press the SET button for 3 seconds until the screen changes to SETPOINT, To change the value at the same time click the arrow up/down buttons to decrease or increase the value. Note that the pH-value can be set is from 6.8 to 7.8 and the ORP from 300 mV to 900 mV

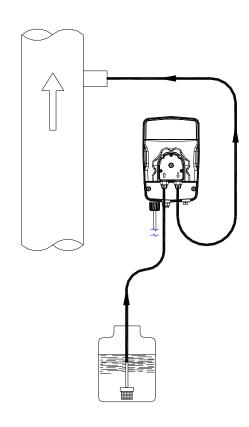
LEVEL ALARM

If the level probe switch is connected to the controller unit, the pump will be stopped and an alarm message will show on the display, "TANK LEVEL LOW."





ETATRON D.S.



Connectors 1-2 (PMP)= Connection for the recirculation pump. Input at 230V

Connectors 4-5 (AUX)= Output relay. This output is powered at 230V and it works in proportional mode by time.

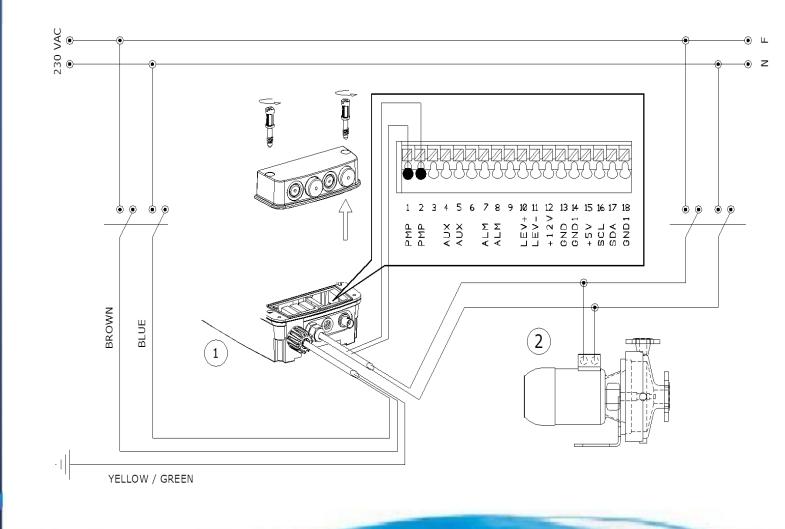
Connectors 7-8 (ALM)= Alarm relay. Free contact

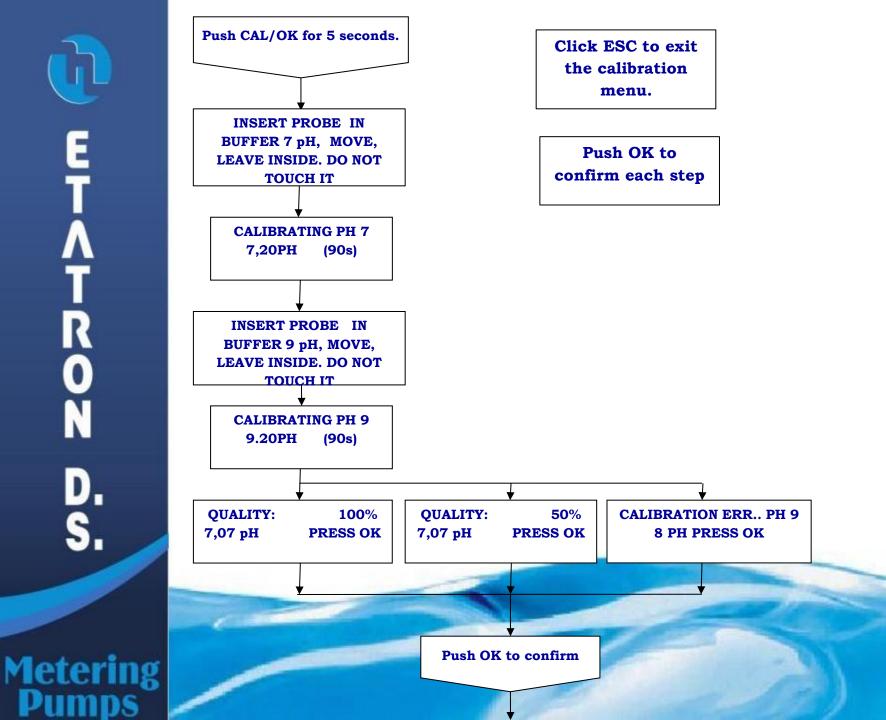
Connectors 10-11 (LEV)= Level probe connection

Connectors 12-13-14-15-16-17-18 not used

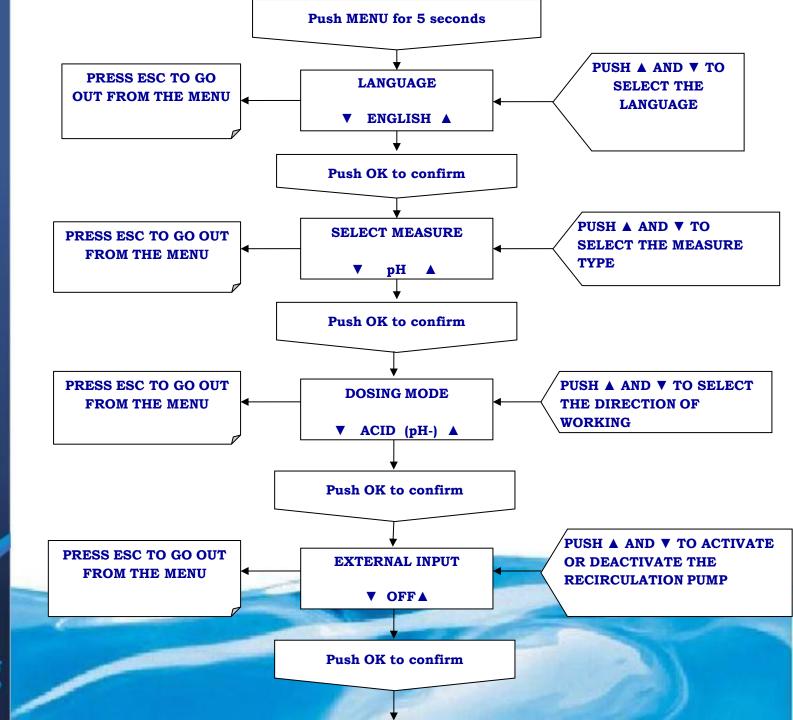


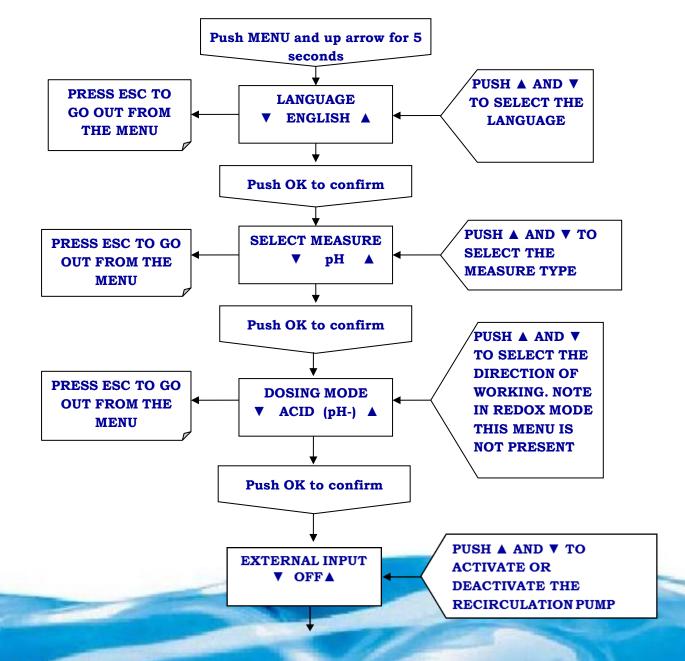






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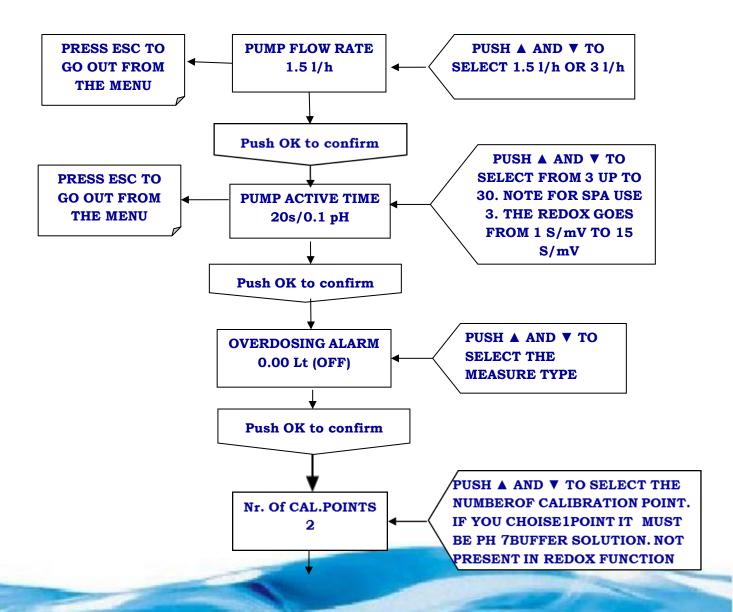


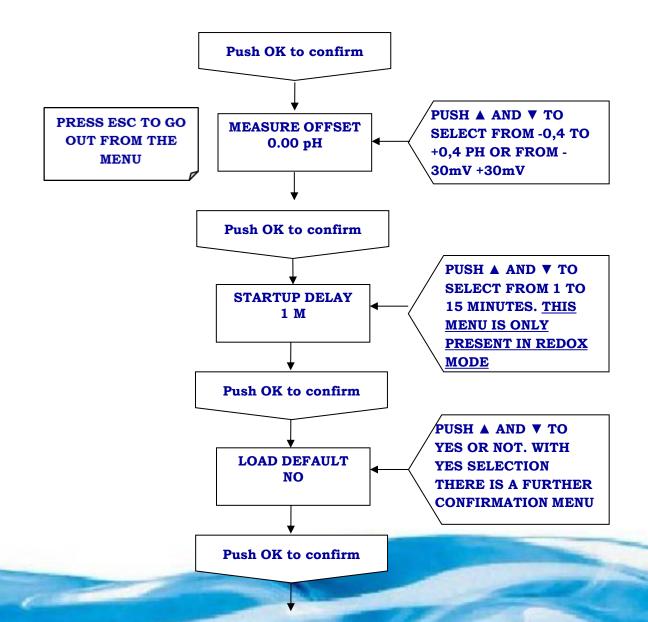


Metering Pumps

EXPERT MENU

D





Metering Pumps

EXPERT MENU

HOW THE PROPORTIONAL DOSING IS MADE

Ton= (Measure - Setpoint) x 20s/0.1 Toff= 300-Ton

> **Ton= Dosing time** Toff= Off time

For example, if the Setpoint is 7.2 pH and the Measure is 8.0 pH:

Ton= $(8.0 - 7.2) \times 20/0.1 = 160$ seconds Toff= 300-160= 220 seconds





PROBE TEST

Probe quality	Offset correction for the pH	Offset correction for the redox
100%	from 0 to 0.4 pH	from 0 to 50mV
75%	from 0.5pH to0.7pH	from 51mV to 80mV
50%	from 0.8pH to1.0pH	from 81mV to 115mV
25%	from 1.1pH to1.2pH	from 116mV to 150mV
Calibration Error	Above 1.2pH	Above 150mV





NEW ELECTRODE IN EPOX 2013





ORP Specification

ORP Range: ±2000 mV **Operating Temperature:** -5 to 60°C

Reference Impedance: $< 50 \text{ K}\Omega \text{ at } 25^{\circ}\text{C}$

Pressure: 6 Bar (87 psi) at 25°C

Diaphragm: Ceramic **No. of Junctions:** Single

Reference System: Ag/AgCl

ORP Storage Solution (in bottle): Saturated KCI

Reference Electrolyte: Gel

Shape of Membrane: Platium Spiral

Diameter: 12 mm
Shaft Length: 120 mm
Shaft Material: Epoxy

Cable: Low-Noise Coaxial Cable

Connector Type: BNC or S7 or S8 (PG 13.5)





Ph Specification

PH Range: 0 - 12

Operating Temperature: -5 to 60°C

Slope: 59±3 mV (95-105%) at 25°C

Zero Point: pH 7

Asymmetry Potential: 0+25 mV

Response Time: < 10 sec for 95% response from pH 7.00 to pH 4.01

Stability: < 3 mV drift/24 hours in pH7 buffer

Glass Membrane Impedance: $< 200 \text{ M}\Omega$ at 25°C

Pressure: 6 Bar (87 psi) at 25°C

Diaphragm: Ceramic

No. of Junctions: Single Reference System: Ag/AgCl

pH Storage Solution (in bottle): Saturated KCl

Reference Electrolyte: Gel

Shape of Membrane: Spherical

Diameter: 12 mm

Shaft Length: 120 mm Shaft Material: Epoxy

Cable: Low-Noise Coaxial Cable

Connector Type: BNC or S7 or S8 (PG 13.5)

