



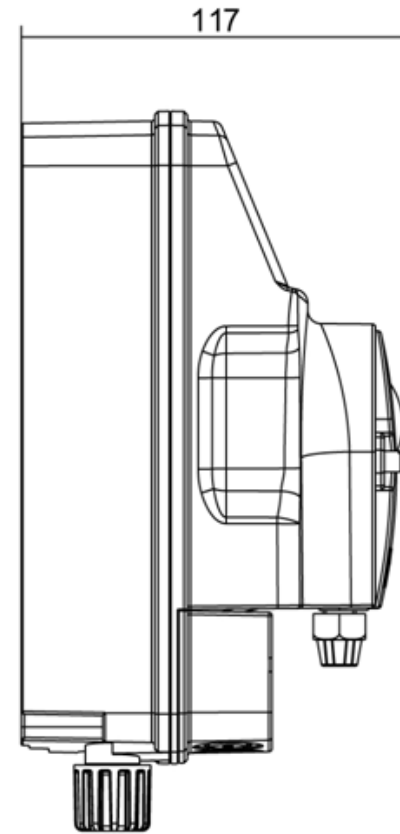
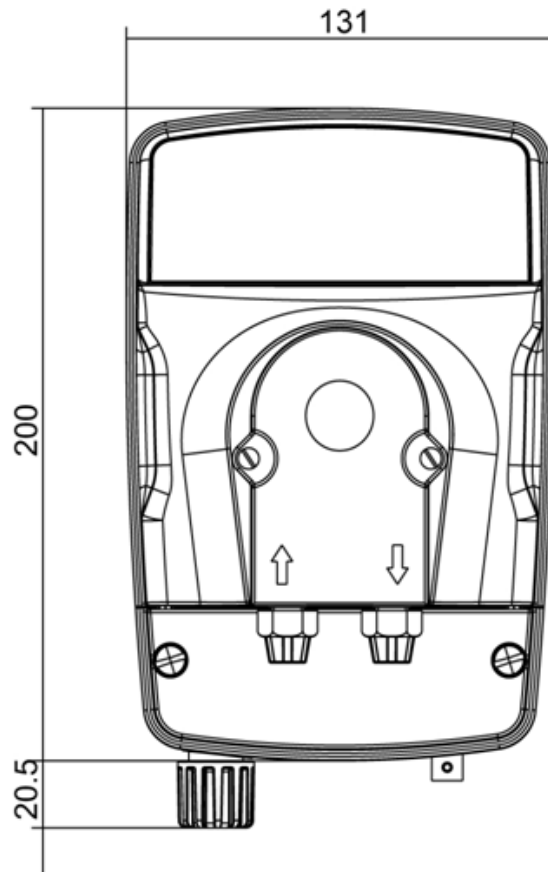
**ETATRON  
D.S.**

**Metering  
Pumps**





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**Metering  
Pumps**



**ETATRONDS.**

Type	MAX Flow	MAX Pressure	Net Weight	MAX Overall Dimensions			Absorbed Power	Rotation Speed	Tube Size
				Height	Width	Depth			
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



**Metering Pumps**



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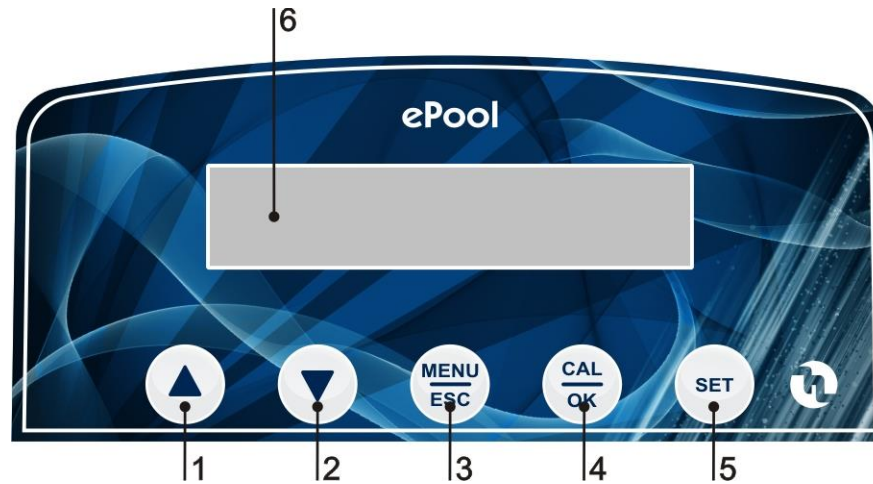
- ✓ **Alarm relay output: related to the volume dosed maximum 6 ltr for 4 hours.**
- ✓ **Connection to the recirculation pump power supply to allow the dosing**
- ✓ **Level probe connector available or proximity sensor connection**
- ✓ **Probe quality test at each calibration displayed in percentage: 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**

**Metering  
Pumps**





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- 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**

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### **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.





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### **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**

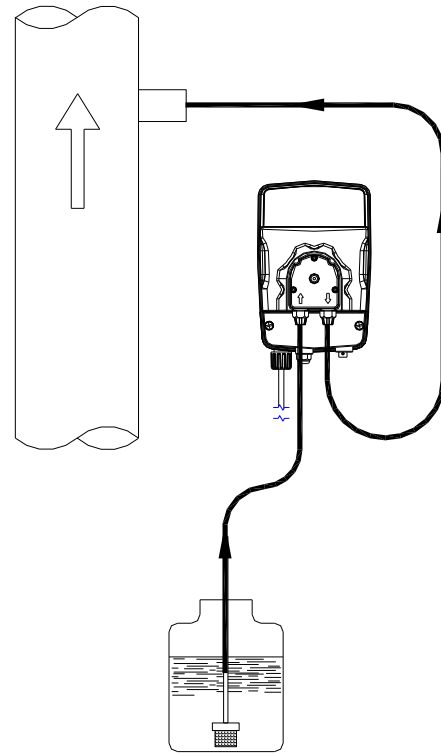
**If the level probe switch is connected to the controller unit, the pump will be stopped and an alarm message will show on the display, "TANK LEVEL LOW."**

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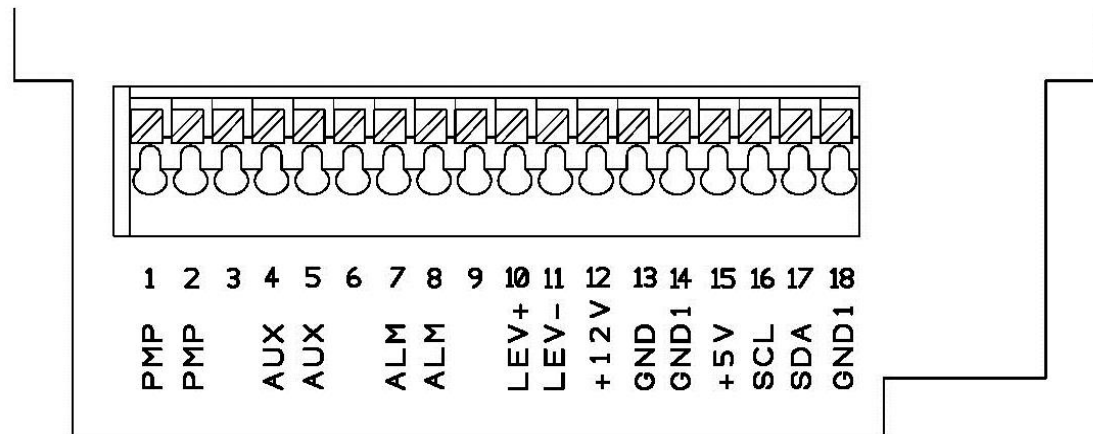


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**Connectors 1-2 (PMP)= Connection for the recirculation pump. Input at 230V**

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

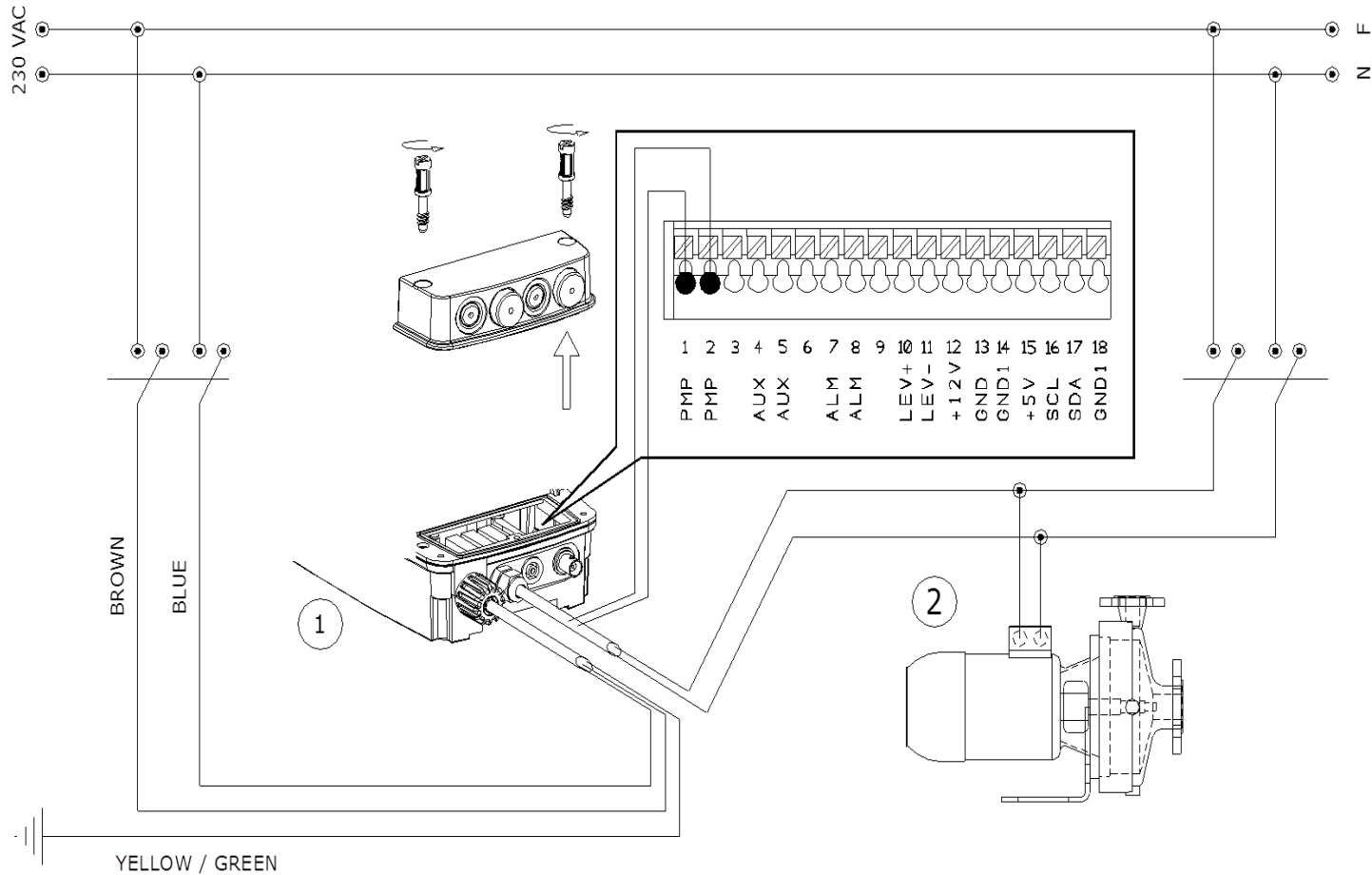
**Connectors 7-8 (ALM)= Alarm relay. Free contact**

**Connectors 10-11 (LEV)= Level probe connection**

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



**ETRON  
S.D.S.**

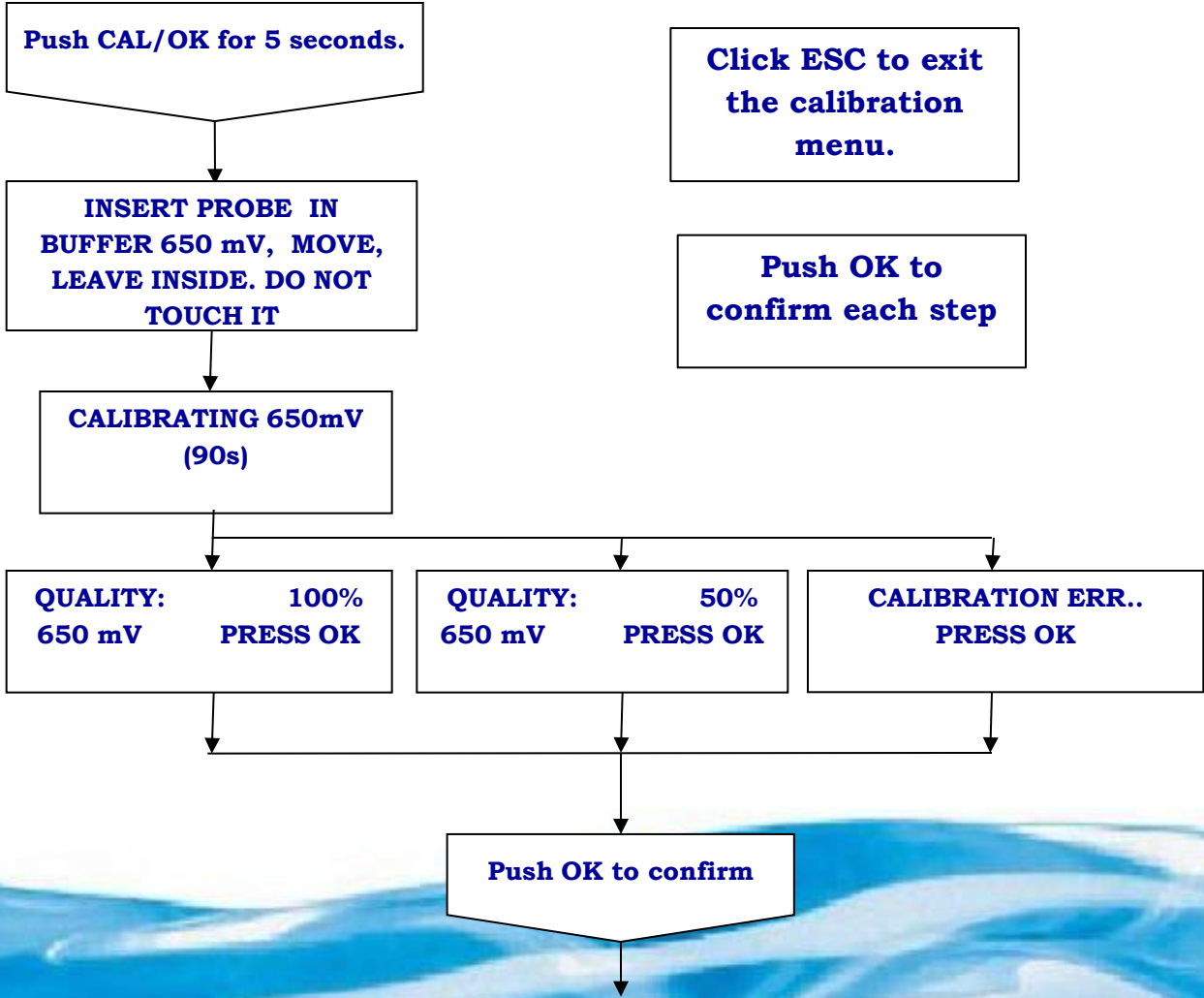


**Metering  
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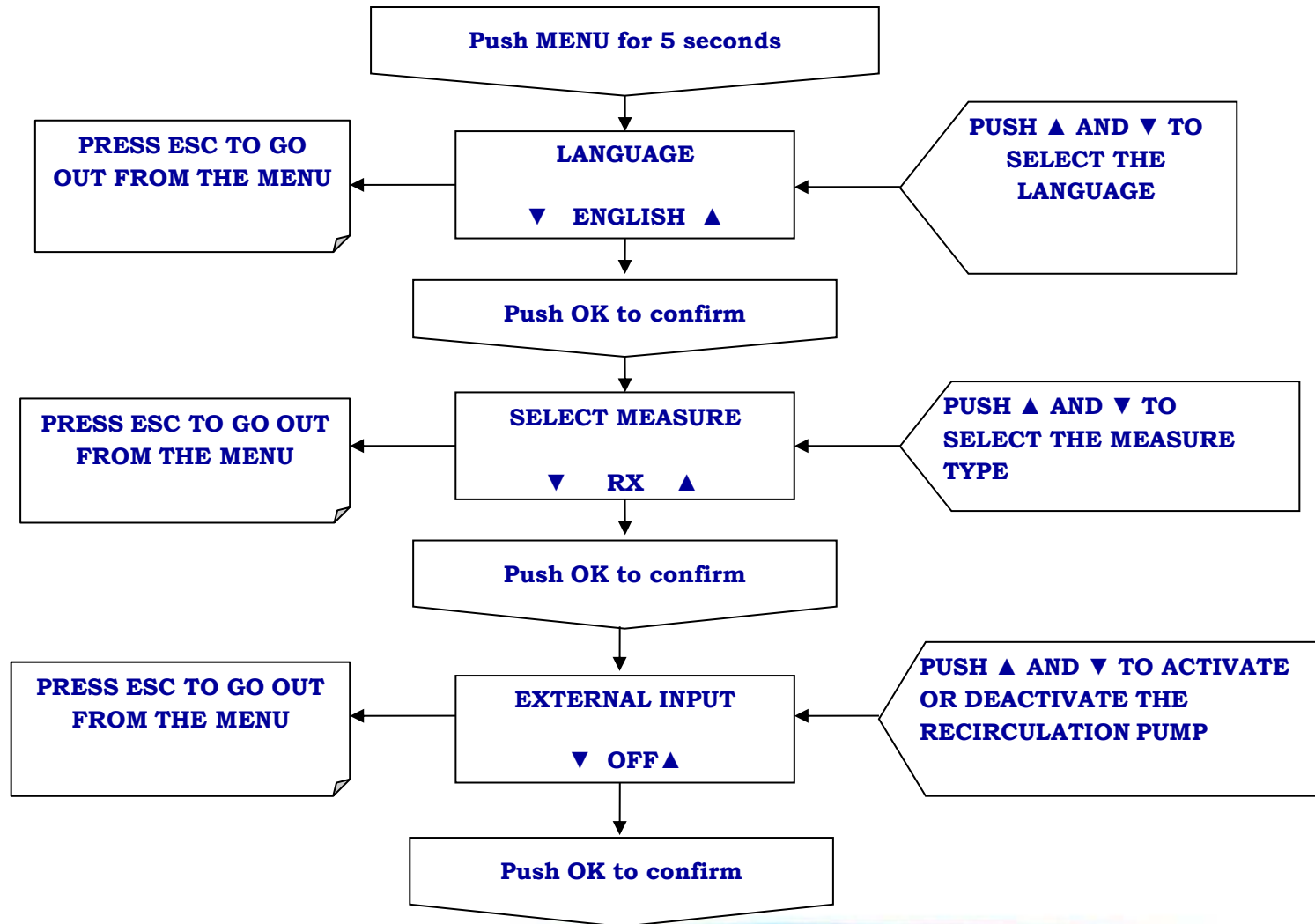
**HATRON**  
**D.S.**

**Metering  
Pumps**





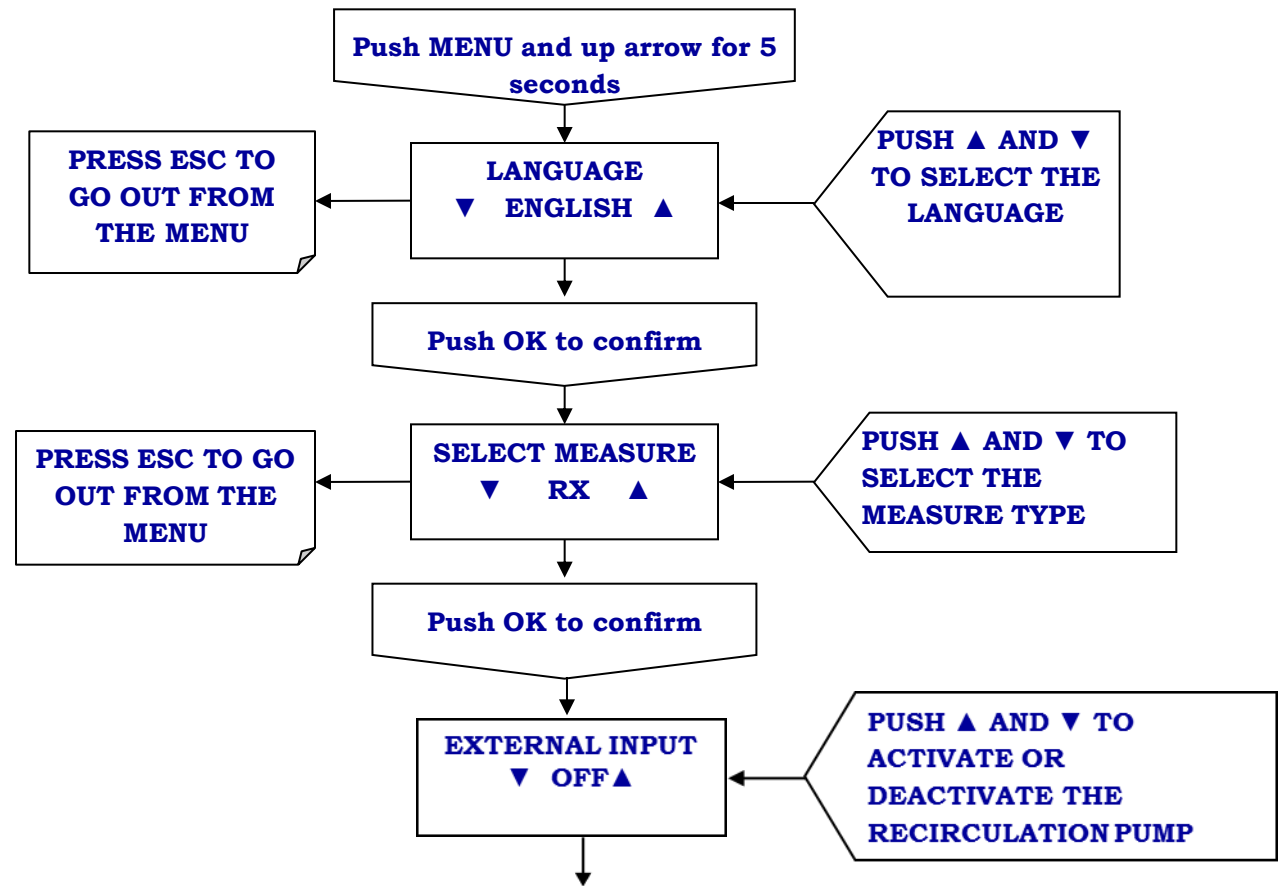
**ETATRON  
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**ETATRON  
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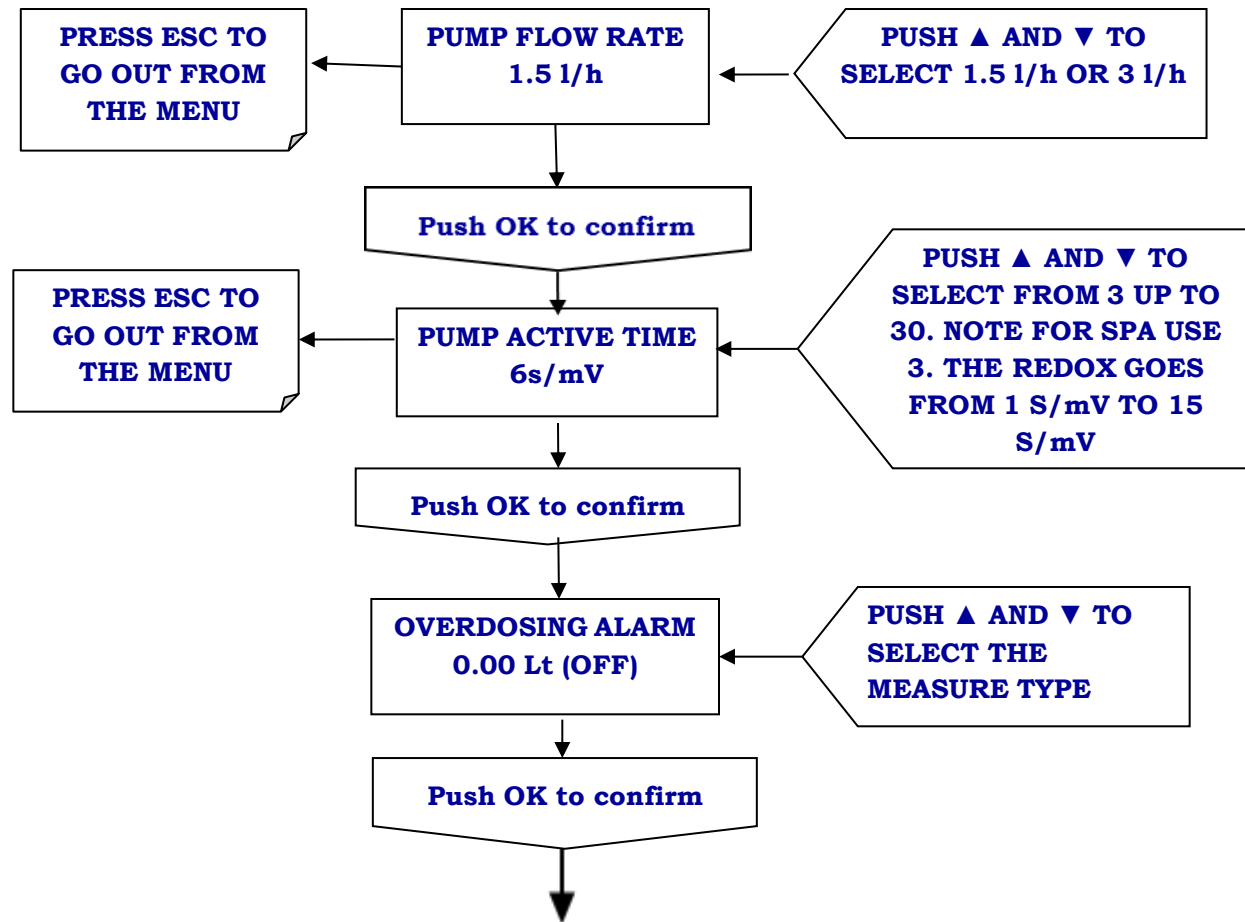


**EXPERT MENU**

**Metering  
Pumps**



**ETATRON  
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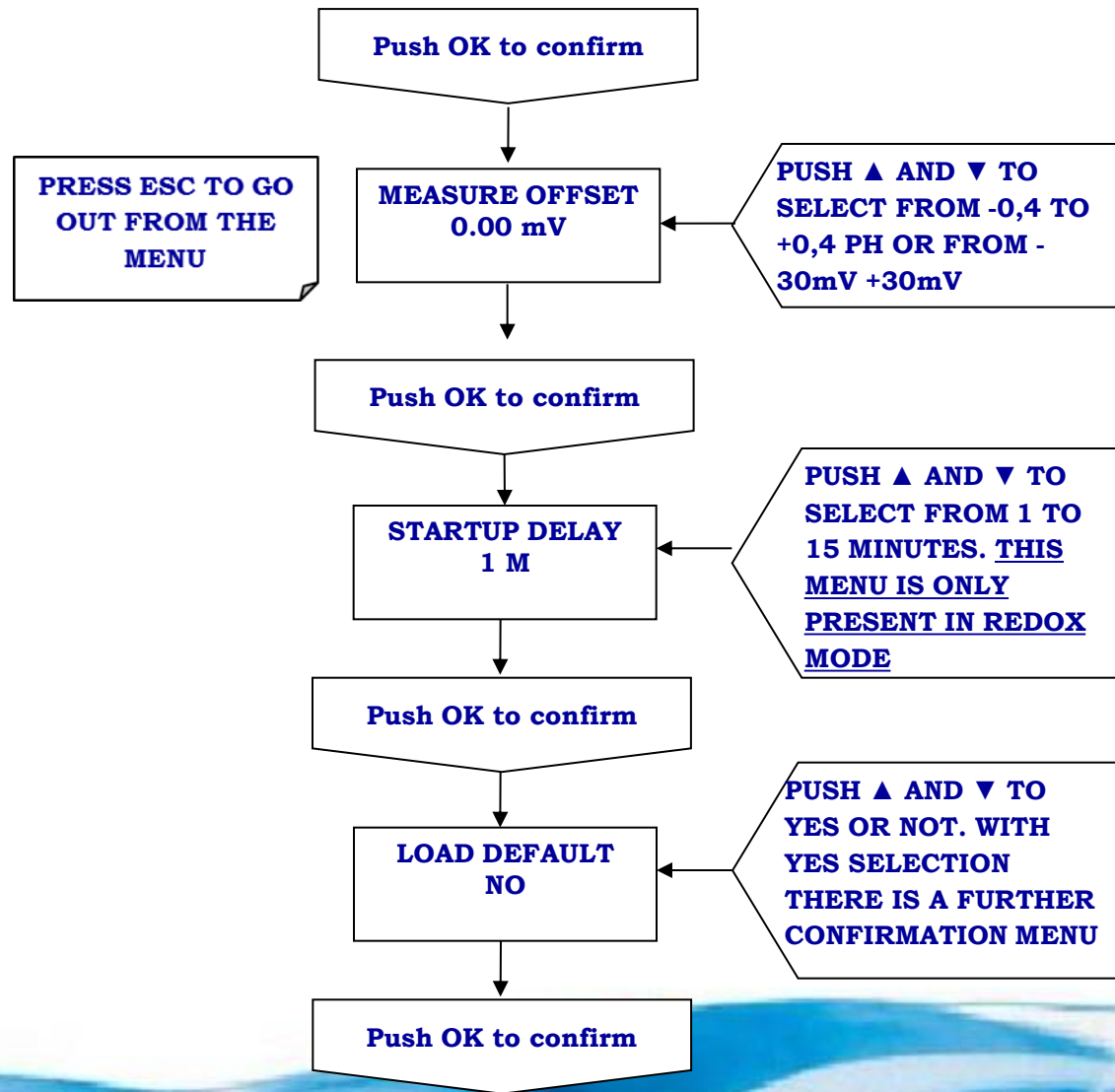


**Metering  
Pumps**

**EXPERT MENU**



**HETATRON  
D.S.**



**EXPERT MENU**

**Metering  
Pumps**



**ETATRON  
D.S.**

## **PROBE TEST**

<b>Probe quality</b>	<b>Offset correction for the pH</b>	<b>Offset correction for the redox</b>
<b>100%</b>	from 0 to 0.4 pH	from 0 to 50mV
<b>75%</b>	from 0.5pH to 0.7pH	from 51mV to 80mV
<b>50%</b>	from 0.8pH to 1.0pH	from 81mV to 115mV
<b>25%</b>	from 1.1pH to 1.2pH	from 116mV to 150mV
<b>Calibration Error</b>	Above 1.2pH	Above 150mV

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**NEW ELECTRODE  
IN EPOX  
2013**



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Pumps**





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## ORP Specification

<b>ORP Range:</b>	$\pm 2000$ mV
<b>Operating Temperature:</b>	-5 to 60°C
<b>Reference Impedance:</b>	< 50 K $\Omega$ at 25°C
<b>Pressure:</b>	6 Bar (87 psi) at 25°C
<b>Diaphragm:</b>	Ceramic
<b>No. of Junctions:</b>	Single
<b>Reference System:</b>	Ag/AgCl
<b>ORP Storage Solution (in bottle):</b>	Saturated KCl
<b>Reference Electrolyte:</b>	Gel
<b>Shape of Membrane:</b>	Platinum Spiral
<b>Diameter:</b>	12 mm
<b>Shaft Length:</b>	120 mm
<b>Shaft Material:</b>	Epoxy
<b>Cable:</b>	Low-Noise Coaxial Cable
<b>Connector Type:</b>	BNC or S7 or S8 (PG 13.5)





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## Ph Specification

<b>PH Range:</b>	0 - 12
<b>Operating Temperature:</b>	-5 to 60°C
<b>Slope:</b>	59±3 mV (95-105%) at 25°C
<b>Zero Point:</b>	pH 7
<b>Asymmetry Potential:</b>	0+25 mV
<b>Response Time:</b>	< 10 sec for 95% response from pH 7.00 to pH 4.01
<b>Stability:</b>	< 3 mV drift/24 hours in pH7 buffer
<b>Glass Membrane Impedance:</b>	< 200 MΩ at 25°C
<b>Pressure:</b>	6 Bar (87 psi) at 25°C
<b>Diaphragm:</b>	Ceramic
<b>No. of Junctions:</b>	Single
<b>Reference System:</b>	Ag/AgCl
<b>pH Storage Solution (in bottle):</b>	Saturated KCl
<b>Reference Electrolyte:</b>	Gel
<b>Shape of Membrane:</b>	Spherical
<b>Diameter:</b>	12 mm
<b>Shaft Length:</b>	120 mm
<b>Shaft Material:</b>	Epoxy
<b>Cable:</b>	Low-Noise Coaxial Cable
<b>Connector Type:</b>	BNC or S7 or S8 (PG 13.5)

