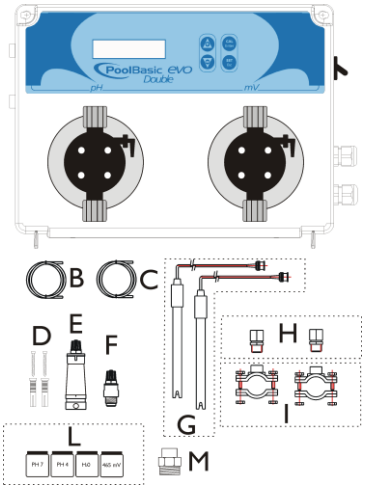
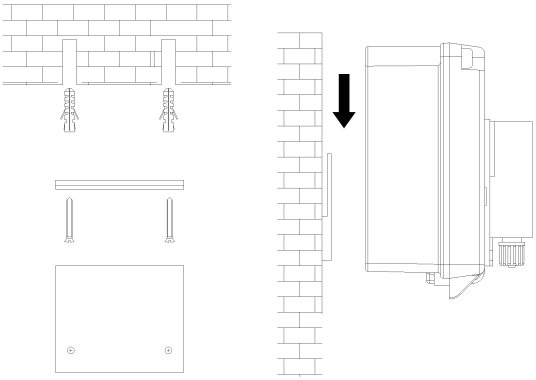
KONTROL INVIKTA Double



PACK CONTENTS

A) "Basic POOL Double" pH and REDOX control device
B) PVC Crystal 4x6 with suction device (2 m)
C) Polyethylene delivery hose (3m)
D) Attachment screw (ϕ=6 mm)
E) Foot filter (PVC riser)
F) FPM duckbill valve (3/8" GAS)
G) Probes pH and Redox
H) PSS3 probe-socket (1/2" GAS)
I) Tapping saddle for securing PSS3 onto 2" hose (ϕ=50 mm)
L) pH 4, pH 7, 465 mV, H_2O buffer solution kit
M) Reducer for injection valve

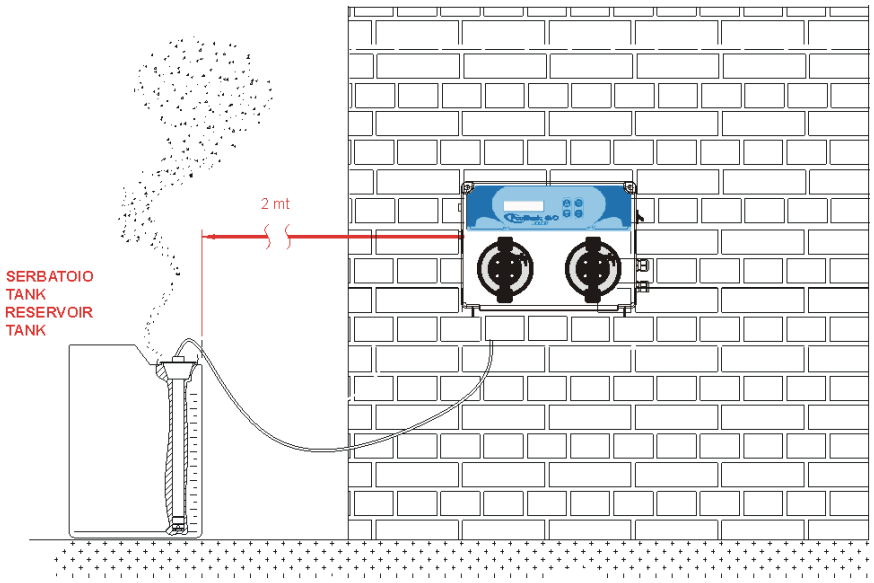
Wall Mounting Setup



TECHNICAL SPECIFICATIONS

Dimensions (H – W – L)	234x162x108 mm
Weight	1 kg
Power supply	100÷240 VAC 50/60Hz
Consumption	12 W or 18 W
Pump flow rate	5 l/h
Maximum back-pressure	5 bar
Pump state	Pause - Supply
Measure scale	0 ÷ 14.0 pH; Redox 0÷ +1000 mV
pH control range	0.0 pH – 14.0 pH
Device precision	+/- 0,1 pH; ± 10 mV
Accuracy	±0.02 pH; ± 3 mV
Electrode regulation	Automatic

ATTENZIONE / WARNING / ATTENTION / ACHTUNG



Instruction Setting

Functions:

- Calibration (Press Cal Key 

 for 3 Seconds):
  - Select the calibration routine pH or Redox by Up or Down key.
  - Standard Routine calibration pH probe is 7 and 4 buffer solution and Redox 465 mV buffer solution
  -
- Set Point (Press Set Key 

 for 3 Seconds)
  - Press Set Key and choose SetPoint and adjust value with Up or Down Key before press Enter and confirm.
    - **Sp_750mv__700_mv_**
    - **Sp_7.4ph___7.6_ph_**
- Press Cal and Set Key (both) 

 for 5 Seconds and run Program Setup:
  - **Program_Menu** (Press Enter to set the following Item)
    - **Language_** (It's possible to have 5 language EN, IT, SP, DE, FR)
    - **Redox_Measure**
      - **setpoint__750_mv** (Adjust value with enter and up or down key) It's possible to adjust from 0 to 1000 mV value for Redox
      - **sp_type__low** (Adjust value LOW or HIGH)
      - **ofa_time_000_min** (Adjust value OFF or set Time)
      - **alarm_band__000_rx** (Adjust value from 100 to 300 mV)
      - **Type_PROP** (Adjust value between OFF, PROP or ON/OFF)
      - **Prop.Band.__120mV** (Adjust value between 10mV at 200mV)
    - **ph_Measure**
      - **setpoint___7.4ph** (Adjust value with enter and up or down key) It's possible to adjust from 0 to 14 pH value.
      - **sp_type__acid** (Adjust value ACID or ALKA)
      - **ofa_time_000_min** (Adjust value OFF or set Time)
      - **alr_band__000_ph** (Adjust value from 1 pH to 3 pH)
      - **Temp__25*C_**(Adjust value with enter and up or down key) pH measure only.
      - **Type_PROP** (Adjust value between OFF, PROP or ON/OFF)
      - **Prop.Band.__0,8pH** (Adjust value between 0,1 at 2 pH)
    - **Flow_**(Adjust value with enter and up or down key Enable or Disable)
      - It's possible to enable(ON) or disable (OFF) signal input
    - **Calibration_probe** (Adjust value with enter and up or down key)
      - **Full** (pH 7 and 4, Redox 465 mV buffer solution)
      - **Easy** (pH 7, Redox 465 mV buffer solution)
      - **Off** (Disabled)
    - **Password** (Adjust value with enter and up or down key, standard value **0000**)
    - **Relay_Alarm** (Adjust value between Alarm, pH or Rx)

- **Exit____save** (Adjust value with up or down key and confirm with enter key)

Save and escape Program setup with ESC key

- **priming____700mv**

Priming Pump Keep Press UP Key for 1 seconds  and priming redox pump

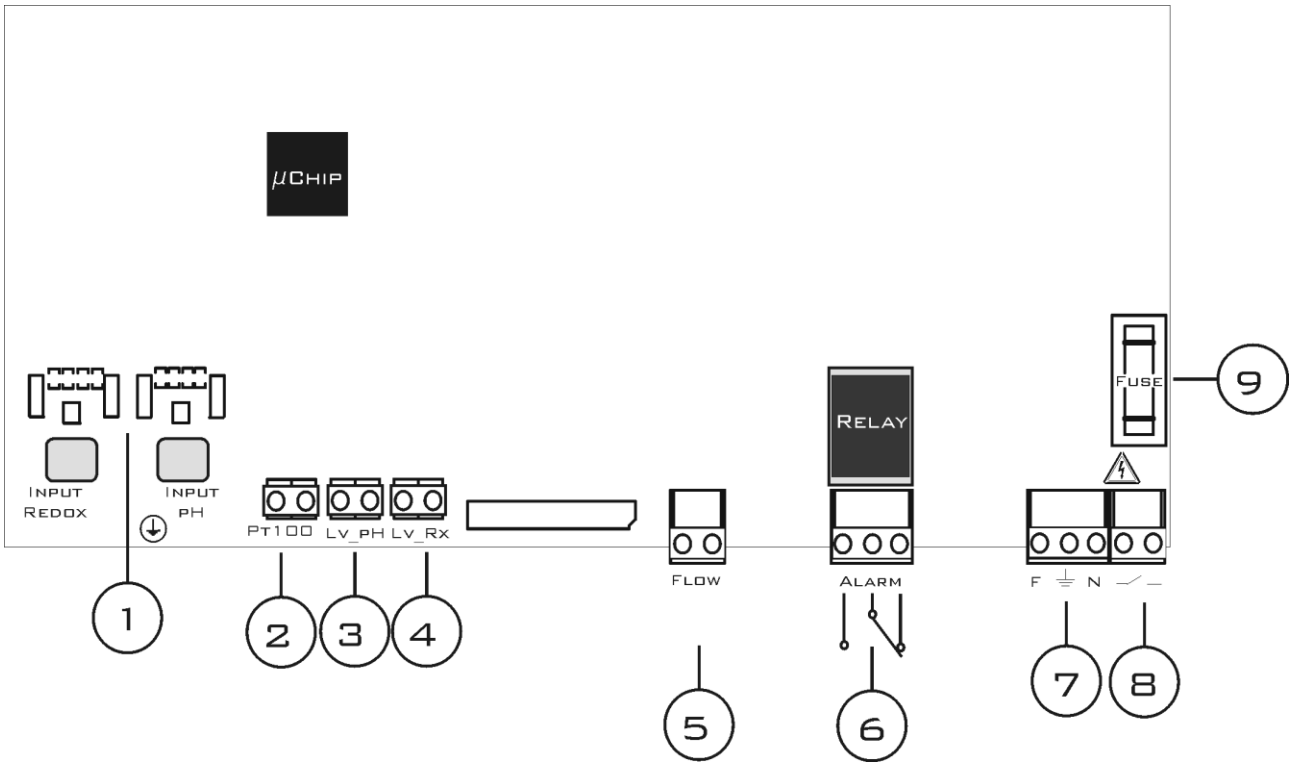
- **priming____7.2ph**

Priming Pump Keep Press Down Key for 1 seconds  and priming pH pump

- **Lock pump function**
  - Press Up and Enter (both) after 5 second flash **Rx_Stop** press again to unlock
  - Press Down and Esc (both) after 5 second flash **pH_Stop** press again to unlock
- The unit doses in proportional mode respect at Set Point (minimum distance 25%, maximum distance 90% of 10 minutes time period dosing)

Note: The unit in program menu to go out in automatic mode after 1 minutes of wait time, the unit doesn't save nothing.

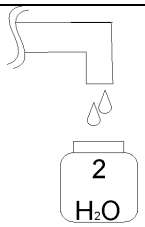
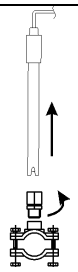
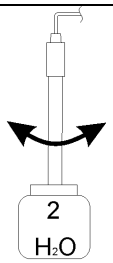
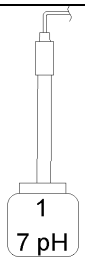
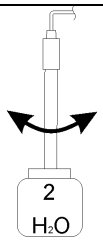
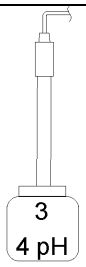
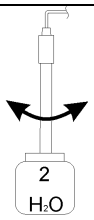
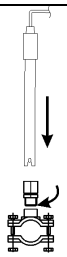
Main board



Wire Connection:

1) Input pH and Redox Probe
2) Input Temperature Probe (PT100)
3) Input Level Probe pH (Product Tank)
4) Input Level Probe Redox (Product Tank))
5) Input Flow Rate (High Voltage 230 Vac)
6) Output Relay Alarm remote (Dry contact, Relay 250 Vac 10 A)
7) Power Supply 230 Vac
8) Switch Power Supply
9) Fuse 2 A Delay

pH Probe Calibration

1  	2 	3  Wash
4  Keep probe into Buffer solution	**Calibration** CAL Enter Press Cal Key 3 Seconds Set pH calibration 5	**Press_cal** CAL Enter Calibration During 1 minutes **Wait_____60s_** 6
7pH_Quality_100% Quality Probe 7	8  Wash	9  Keep probe into Buffer solution
4pH__Press_cal CAL Enter Calibration During 1 minutes **Wait_____60s_** 10	**4pH_Quality_100%** Quality Probe 11	12  Wash
13 	CAL Enter Press Enter Key to save and exit 14	Normal Status 15

Note:
If you have setting Calibration = Easy the function has 1 point calibrate only 7 pH buffer solution.

Redox Probe Calibration

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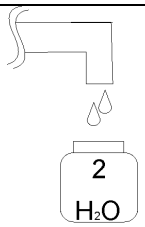
<td>1
 
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 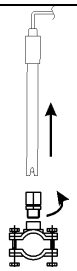 </td>
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 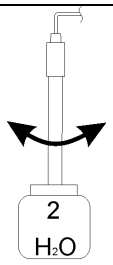

Wash</td>
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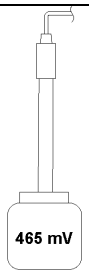
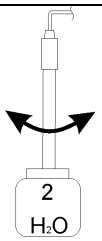
 

Keep probe into Buffer solution</td>
<td>Calibration
CAL Enter
Press Cal Key 3 Seconds
Set Redox calibration
5</td>
<td>465mv__Press_cal
CAL Enter
Calibration During 1 minutes
Wait_____60s_
6</td>
</tr>
<tr>
<td>465mv_Quality_100%
Quality Probe
7</td>
<td>8
 
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 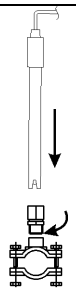 </td>
</tr>
<tr>
<td> 

Press Cal Key 3 Second
10</td>
<td>Normal Status
11</td>
<td></td>
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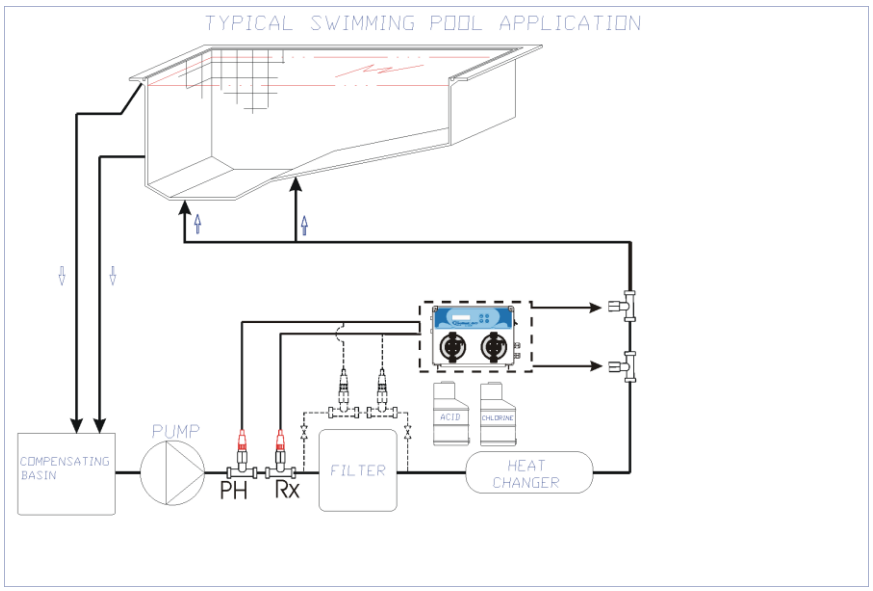

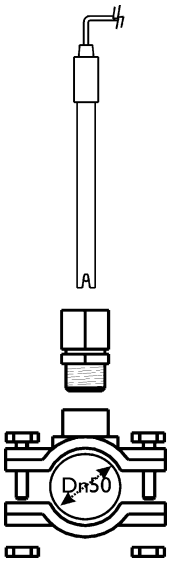

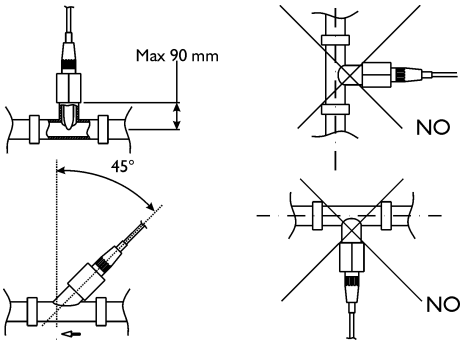

Alarm	Display	Relay	Actions to do
Level	**level___7,2_ph**	Alarm Relay Close	- Push Enter Key to open Alarm Relay - Restore Product tank
OFA First Alarm (time >70%)	**ofa_alarm_7,2_ph**	Alarm Relay open	- Push Enter Key to reset
OFA Second Alarm (time =100%)	**ofa_stop__7,2_ph**	Alarm Relay Close	- Push Enter Key to reset
Flow Rate	**Flow_____7,2_ph**	Alarm Relay open	- Restore Flow Rate
System Error	**Parameter_error**	Alarm Relay Open	- Press Enter Key to replace Default parameter - Destroy Unit
Calibration Function	**Error_7_ph** **Error_4_ph** **Error_465_mv**	Alarm Relay open	- Restore Probe or Buffer solution and repeat calibration function

Default parameters:

- Language = **UK**
- Set Point value= **7,4 pH; 750 mV (Rx)**
- Dosing Method = **Acid; Low (Rx)**
- Time OFA = **OFF**
- Calibration = **Full**
- Flow Input= **OFF**
- Dosing Type= **PROP**
- Prop. Band= **0,8pH; 120mV (Rx)**
- Relay= **Alarm**

To restore Default parameters run Following steps:

- Power off Pool Basic unit
- Keeping Press UP and DOWN Key switch on the Power.
- The unit will flash **Init.default_no**
- Press up **Init.default_Yes**
- Enter Key to restore Default parameters.