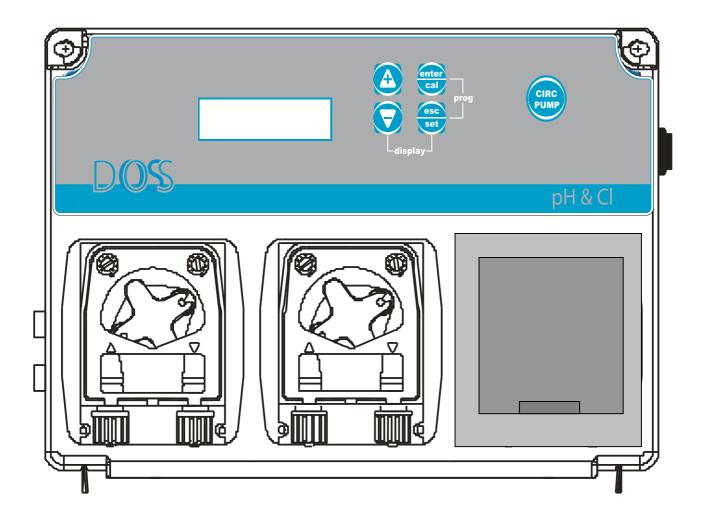
User manual



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WARNINGS

1. GENERAL INTRODUCTION

The **Kommander EVO** regulation device belongs to the supplier's new line of precision instruments for innovative pool management. This easy to use device allows for pH levels to be constantly monitored.

The peristaltic pumps have a flow rate of 1.5 L/h for pH regulation and have a pressurised injection capacity of up to 1.5 bar.

This easy to use device requires no special maintenance. It features an automatic regulation procedure, as well as automatic electrode status verification.

2. INSTALLATION PRECAUTIONS

ATTENTION !!!

Disconnect the Kommander EVO device from the mains power supply before performing <u>ANY</u> operation inside its control panel.

FAILURE TO OBSERVE THE INSTRUCTIONS CONTAINED IN THIS MANUAL COULD RESULT IN PERSONAL INJURY AND/OR DAMAGE TO THE DEVICE.

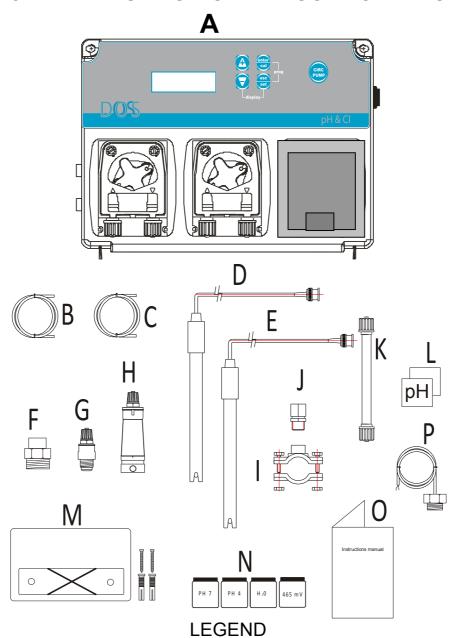
CAUTION

When installing the **Kommander EVO** device, proceed in the following manner:

- Make sure that the Power Supply voltage coincides with that which is indicated on the label on the side of the device.
- Make sure that the injection pressure is less than 1.5 bar.
- Make sure that the pump's protective cover is properly attached.
- Make sure that the suction tube is immersed, with the relative foot (PVC tube) in the tank containing the product to be injected, and is connected to the pump (symbol on the cover
 After having performed this check, tighten the nut on the fitting.
- Connect one end of the delivery pipe to the pump (symbol on the cover ▼) and connect the other end to the pool by means of the injection valve.

N.B.: Use the appropriate button to switch to forced pump running mode in order to insert the product to be injected into the pump upon first activation and when changing the tank.

3. IDENTIFICATION OF THE COMPONENTS



- A. **Kommander EVO** regulator
- B. 4x6 (4 m) x 3 Crystal PVC suction tube
- C. 4x6 (5 m) x 3 PE delivery pipe
- D. pH Electrode model SPH-1
- E. Redox electrode
- F. Reduction for injector valve x 2 (not incluted)
- G. FPM lip valve (3/8" GAS) x 3
- H. Suction foot filter (PVC tube) x 3
- I. Clamp for fastening the PSS3 or the valve upon 2" pipe ϕ =50mm x5 (not incluted)
- J. PSS3 probe holder (1/2" GAS) x 2 (not incluted)
- K. 3x7 tube for flocculant
- L. Label to be applied to the pumps
- M. Fastening bracket kit
- N. Buffer solution kit pH 4, pH 7, H₂O, 465 mV
- O. Instruction manual
- P. Temperature sensor

4. TECHNICAL DATA

Power supply: 100-240 Vac 50/60 Hz 30 watt

• **Switch**: edge of the box

• Input measurements: pH and Redox, through BNC

pH scale: 0-14.0 pH
pH precision: +/-0.1 pH
Redox scale: 0-1500mV
Redox precision: +/-10 mV

• Temperature scale: 0-100 °C (PT100 sensor)

Pump flow rate with transaxle technology:

o **pH, Redox:** 1.5 l/h (6X10 tube) 1.5 bar

Plug for circulation pump Maximum power 1500 Watt

Recirculation pump relay output: 230 Vac 1.5 Kw

• Pump alarm relay: 10 A 250 V (Dry contact)

Boiler relay output: 230 Vac 1.5 Kw

Power Supply dedicated to the pumps: 240 Vac 10 watt

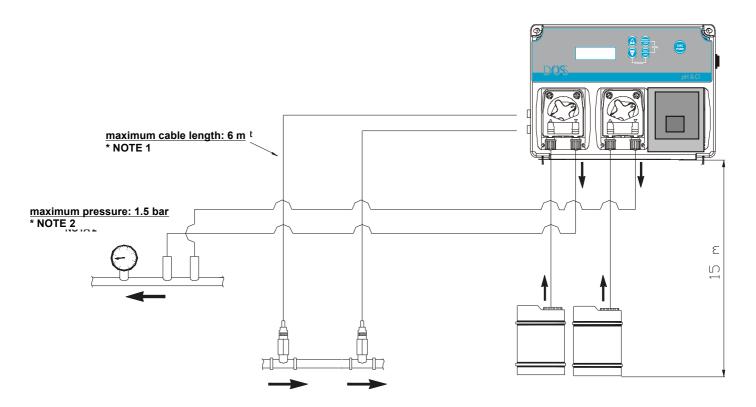
• Input signal: 100÷240 Vac

• Level probe: pH, Redox, Flocculant

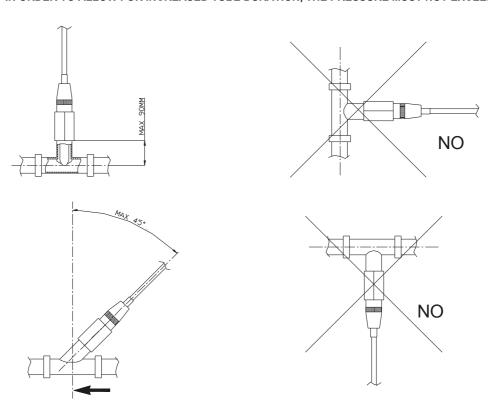
Install the **Kommander EVO** regulator upon a rigid support (vertical wall) in a location which can be easily accessed by the operator. Use the fastening bracket supplied along with the kit to fix the **Kommander EVO** regulator in place (distance between the holes of the bracket: 95 mm. Hole \varnothing 6).

Before performing any operations inside the device, make sure that the switches are in their 0 positions. Turn the two screws on the upper portion of the device ¼ of a turn to allow the front portion to open on its hinges.

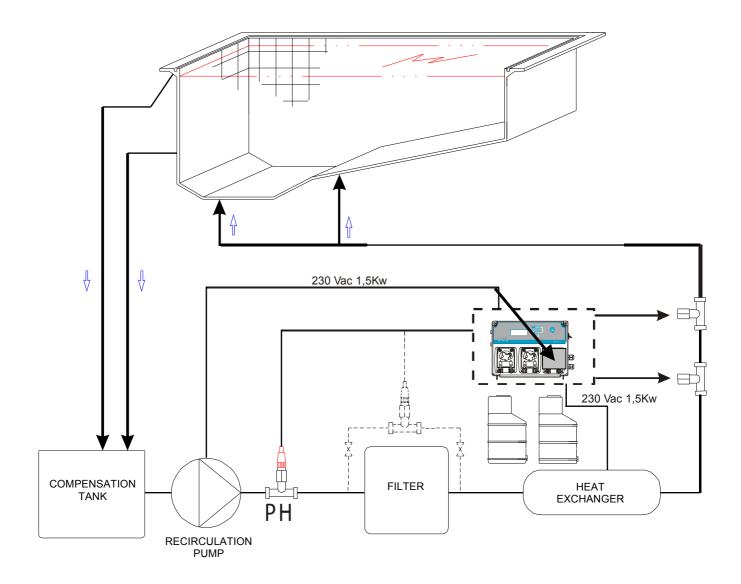
5. ASSEMBLY INSTRUCTIONS



- * NOTE 1: IN ORDER TO AVOID ELECTRICAL DISTURBANCES, THE CABLE MUST PASS THROUGH A ZONE OTHER THAN THOSE USED FOR POWERING LARGE PUMPS.
- * NOTE 2: THE MAXIMUM PRESSURE MUST NOT EXCEED 1.5 BAR.
 IN ORDER TO ALLOW FOR INCREASED TUBE DURATION, THE PRESSURE MUST NOT EXCEED 1 BAR.



5.1 EXAMPLE OF APPLICATION



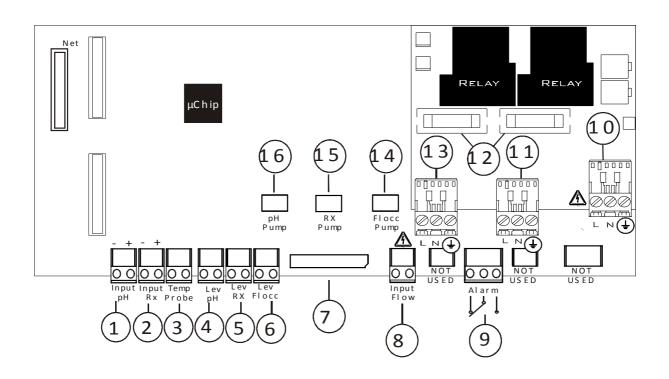
Note 1:

The linear distance of the channelling between the probe and the injection point must not be less than 60 cm.

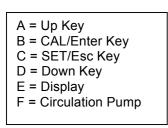
Note 2: Manually activation use "Cir pump" circulation key button. It is possible to power on the circulation pump on demand, the function is not available while circulation pump is running accordingly to weekly timer.

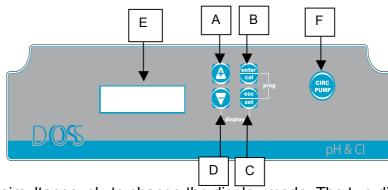
6. DESCRIPTION OF THE CIRCUIT

- 1) PH measurement input
- 2) Redox measurement input
- 3) Temperature probe input
- 4) pH product level probe input
- 5) Redox product level probe input
- 6) Flocculant product level probe input
- 7) Keyboard input
- 8) Flow (recirculation pump)
- 9) Alarm relay (dry contact)
- 10)240 Vac power supply input
- 11)Not used
- 12)10A fuse
- 13)Boiler relay output 240 Vac 10A
- 14)Flocculant pump power supply
- 15) Redox pump power supply
- 16)pH pump power supply



DISPLAY MODES WITH THE SYSTEM IN STAND-BY





Press the **Down** and **SET** keys simultaneously to change the display mode. The two display modes are illustrated and described below:

	Stand-by Display Mode 1	Functionality
		The display is divided into 4 parts: • When active, the alarm is shown on the upper left.
1	Alr 760mV 8.3pH	 Three elements are displayed on the upper right: The 1st is the display mode with the system in stand-by.
2	Alr 1200cc 760mV 8.3pH	The 2 nd displays the countdown of the amount being dosed by the pump in cc.
3	Alr FLOC 37m 760mV 8.3pH	 The 3rd, with the message FLOC, is the expected time until the next dose.
		 The value detected by the Rx probe is displayed on the lower left. The value detected by the pH probe is displayed on the lower right.

^{*}If Advanced → Flow= On and the recirculation pump stops during Flocculant dosing, thereby blocking the dosing of the system, once the pump is reactivated the Flocculant will restart the calculated dose in cc from the beginning.

N.B. The recirculation pump can be connected to the system. This function can be used when the system does not control the pump through a relay, but the signal comes from an autonomous pump.

Stand-by Display Mode 2	Functionality
Stand-by Display Mode 2 Ta 25°C Sp=27°C Wed 11:35 Ta 25°C Sp=27°C P01 11:30->12:30	 Functionality The display is divided into 4 parts (Fig.1): The temperature value detected by the probe is displayed on the upper left. The SetPoint of the boiler is displayed on the upper right. When the relay is active, the value is flashing. The day of the week is displayed on the lower left. The clock is displayed on the lower right. When a program for the recirculation pump is activated, the program number, with the start
	and stop times flashing, is displayed on the
	bottom line. (fig. 2)

N.B. If an alarm should occur, the system will automatically switch to Stand-by display mode 1, thereby displaying the alarm typology.

7. CALIBRATION MENU

7.1 Calibration

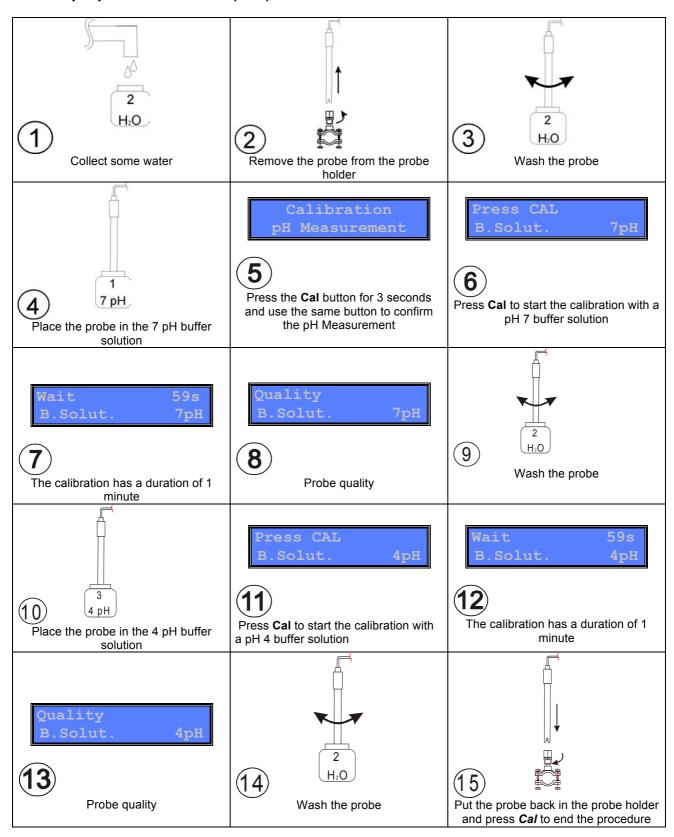
Before continuing, calibration must be enabled. Select **Advanced > Cal from the menu**. The display will show:

Calibration Menu Display	Settings	
Advanced Off	Press <i>ENTER</i> to access the menu.	
Advanced Cal Full	 Press <i>Enter</i> and use the + and - keys to modify the calibration settings: Full: The system calibrates the reading of the pH probe's value based on 2 reference values (7 and 4 pH). This calibration mode allows the system to read the values with greater precision. Easy: The system calibrates the reading of the pH probe's value based on one reference value (7 pH). Off: Calibration is disabled. 	

Exit the menu and return to the system's normal status.

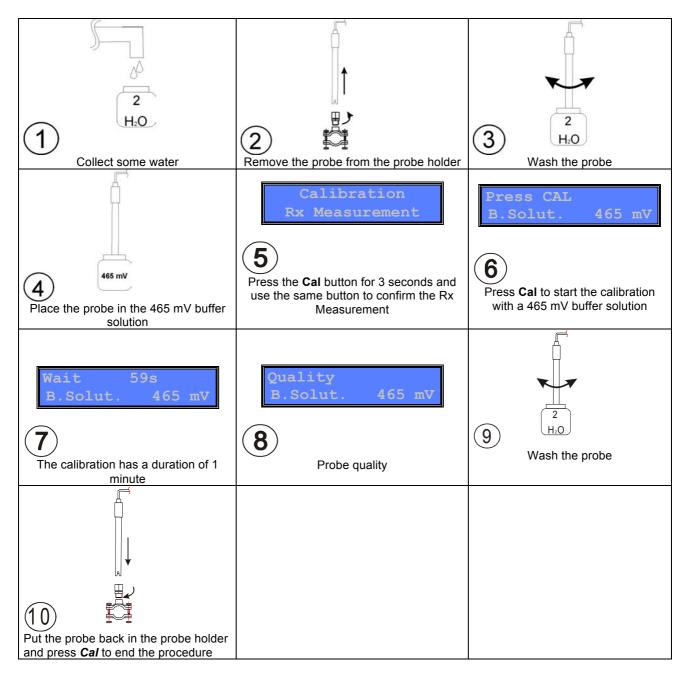
7.1.1 pH probe calibration (Easy) 2 H₂O 2 1 H_2O Collect some water Remove the probe from the probe Wash the probe holder Calibration Press CAL 6 7 pH 4 Press the Cal button for 3 seconds Press Cal to start the calibration with Place the probe in the 7 pH buffer and use the same button to confirm a pH 7 buffer solution the pH Measurement solution Quality 9 The calibration has a duration of 1 minute Probe quality Wash the probe Put the probe back in the probe holder and press Cal to end the procedure

7.1.1 pH probe calibration (Full)



7.1.1 Redox probe calibration

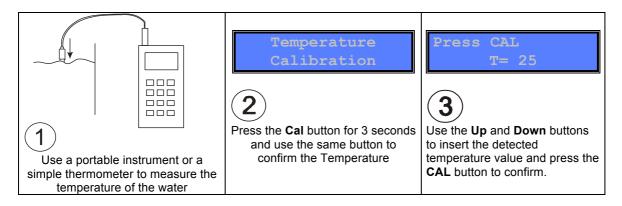
In order to perform this calibration, Redox measurement must be enabled



7.1.4 Temperature calibration

This function is only present if a temperature probe is connected.

This operation allows the probe to provide an even more precise reading wherever necessary.



8. PROGRAMMING

Press the *Cal* and *Set* buttons simultaneously for at least 3 seconds to access the programming menu.

After releasing the buttons, the display will show:

Display Language	Settings
Menu Language EN	Press <i>Enter</i> and use the + and - keys to change the selected language: FR, EN, IT, ES, DE

To prime the **pH** pump, press the **UP** button for at least 3 seconds and release it to complete the operation. Follow the same procedure using the **DOWN** button to prime the **Rx** pump and using the **UP** and **DOWN** buttons simultaneously to prime the **Flocculant** pump.

pH Measurement Display	Settings
Menu pH Measurement	Press <i>Enter</i> to access the submenus:
pH Measurement Setpoint 7.4 pH	Press <i>Enter</i> and use the + and - keys to modify the Set Point value (0-14 pH)
pH Measurement Dose Type Acid	Press <i>Enter</i> and use the + and - keys to modify the Set Point typology: • Acid • Alkaline
pH Measurement OFA Time Off	Press <i>Enter</i> and use the + and - keys to set the OFA time to OFF or to a value between 1 and 240 min. (See section 9.5)
pH Measurement Alr Band 3.0pH	Press <i>Enter</i> and use the + and - keys to set the band alarm to a value between 1 and 3 pH.
pH Measurement Type PROP	Press <i>Enter</i> and use the + and - keys to modify the dose type: PROP (See Section 9.2) ON/OFF (See Section 9.4) OFF (Dose disabled)

Rx Measurement Display	Settings
Menu Rx Measurement	Press <i>Enter</i> to access the submenus:
Rx Measurement Setpoint 760mV	Press <i>Enter</i> and use the + and - keys to modify the Set Point value (0-1500 mV)
Rx Measurement Dose Type High	Press <i>Enter</i> and use the + and - keys to modify the Set Point typology: • High • Low
Rx Measurement OFA Time Off	Press <i>Enter</i> and use the + and - keys to set the OFA time to OFF or to a value between 1 and 240 min. (See section 9.5)
Rx Measurement Alr Band 300mV	Press <i>Enter</i> and use the + and - keys to set the band alarm to a value between 100 and 300 mV.
Rx Measurement Type PROP	Press <i>Enter</i> and use the + and - keys to modify the dose type: • PROP (See Section 9.2) • ON/OFF (See Section 9.4) • OFF (Dose disabled)

Flocculant Measurement Display	Settings
Menu Flocculant	Press <i>Enter</i> to access the submenus:
Flocculant Tube 6x10	Press <i>Enter</i> to modify the dimensions of the tube (3x7 or 6x10 mm). The system will automatically calculate the flow rate for the selected tube with no need to modify any other parameters (by default the system uses the 6x10 tube).
Flocculant Conc 1.0 cc/m3	Insert the desired product concentration value to be dosed. This value can be set between 1 and 4 cc/m³ with the 3x7 tube, or between 1 and 15 cc/m³ with the 6x10 tube.
Flocculant Pump 20 m3/h	Insert the value associated with the system's recirculation pump. This value can be set between 2 and 100 m³/h.
Flocculant Type ON/OFF	Press <i>Enter</i> and use the + and - keys to enable (ON/OFF) or disable (OFF) the dosing.

Boiler Display	Settings
Menu Boiler	Press <i>Enter</i> to access the submenus:
Boiler Setpoint 25°C	Press <i>Enter</i> and use the + and – keys to modify the Set Point value (15-60 °C), or rather the value at which the relay opens or closes based on the Dose Type settings.
Boiler Type High	Press <i>Enter</i> and use the + and - keys to modify the Set Point typology: • High: the relay is active until the Set Point temperature is reached. The activation is present for temperatures higher than the Set Point value. • Low: the relay is active until the Set Point temperature is reached. The activation is present for temperatures lower than the Set Point value.
Boiler OFA Time Off	Press <i>Enter</i> and use the + and - keys to set the OFA time to OFF or to a value between 1 and 240 min. This is the time for which the relay will be disabled if the temperature detected by the probe does not reach the Set Point value.

^{*} if the temperature probe is not present, the display will show an Error message upon accessing the menu. This menu item is only enabled if a temperature probe is connected.

Recirculation Pump Display	Settings
Menu Recirculation pump	Press <i>Enter</i> to access the programming submenus. This menu item allows for up to 10 different weekly programs to be configured with a start and stop time. The configured program activates an output relay with a voltage of 220 VAC for powering an external device.
P01 MTWTFSS 00:00	Use the + and – keys to set the desired program (P01P10).
P01 hh:mm Start 10:00	Press Enter to set the relay's activation time. Use the + and – keys to modify the flashing hour values 0024 and press Enter to confirm. Use the + and – keys to modify the flashing minute values 0059 and press Enter to confirm.
P01 hh:mm Stop 11:30	Press the – key to access the submenu for setting the relay's deactivation time. Press Enter to modify the time. Use the + and – keys to modify the flashing hour values 0024 and press Enter to confirm. Use the + and – keys to modify the flashing minute values 0059 and press Enter to confirm.
P01 MTWTFSS Days X-X-X	The program can be configured for activation on various days of the week, using the <i>Enter</i> button to apply the modified parameters. The days of the week are indicated on the upper portion of the display as a reference, with an X below to indicate that the relative day has been enabled. Use the – key to scroll through the days and the + key to enable or disable the selected day. Press Enter to confirm the parameters.

^{*} If a relay activation program that overlaps two consecutive days is required (ex. Start: 22:30: Stop: 01:30 of the following day), two consecutive programs must be configured. Ex.

P01 - Start: 22:30; End: 23:59

P02 - Start: 00:00; End: 01:30 (of the following day).

Advanced Display	Settings
	Press <i>Enter</i> to access the submenus:
	Temp.
	• Flow
Menu	• Cal
Advanced	Date-Time
	Password
	Total reset
	Enable boiler
	Enable r. pump
	Press <i>Enter</i> and use the + and - keys to set
	the compensation temperature to a value
Advanced	from 1 to 100 °C. If a temperature probe is connected, this menu item will not be
Temp. 25°C	displayed and the system will automatically
	compensate based on the value detected by
	the probe.
	Press <i>Enter</i> and use the + and - keys to set
Advanced	the flow to OFF or ON. This menu item
Flow On	enables or disables the Flow input. (See
	Section 10.0).
	Press Enter and use the + and - keys to
	modify the calibration settings:
	Full: The system calibrates the
	reading of the pH probe's value
Advanced	based on 2 reference values (7 and 4 pH). This calibration mode allows the
Cal Full	system to read the values with
	greater precision.
	Easy: The system calibrates the
	reading of the pH probe's value
	based on 1 reference value (7 pH).
	Off: Calibration is disabled.
	Press Enter to set the time and the day of
Date-Time	the week. The reference value will flash.
Fri 11:36	Use the + and - keys to make any desired
	changes and press Enter to confirm.
	Press <i>Enter</i> to set the security password for accessing and modifying the system's
Advanced	parameters.
Password ****	Use the + key to modify the selected value,
	the – key to move on to the next character
	and the <i>Enter</i> key to confirm.
	Press <i>Enter</i> to reset the system's settings.
Advanced	Press Enter again to confirm the reset
Total reset	operation (the system's default parameters
	will be loaded).
Enable boiler	Press <i>Enter</i> and use the + and - keys to
Yes	enable (Yes) or disable (No) the boiler
	relay's output. Press <i>Enter</i> and use the + and - keys to
Enable Recirc.	enable (Yes) or disable (No) the
Yes	recirculation pump relay's output.

Press **Esc** to exit the various menus and **Enter** to confirm the settings.

Display	Settings
	Use the + and – keys to select YES or NO, indicating whether or not to save the settings. Press Enter to confirm the
	operation.

HOTKEYS

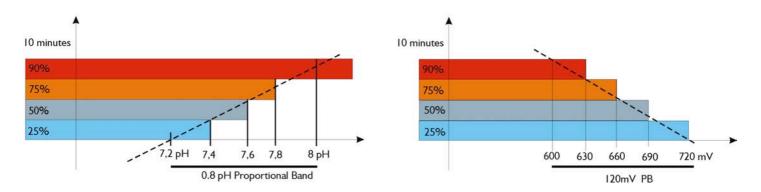
With the system in stand-by, press the **SET** button for at least 3 seconds to access a quick setup menu:

Set Display	Functionality
pH= 7.2 Rx= 760 Floc= 1.0cc/m3	The pH value flashes. Use the + and – keys to make any desired modifications and press Enter to continue and move on to the Rx or Flocculant value. Continue using the same procedure, pressing Enter to confirm and exit.

9. DOSING METHOD

The control of the pumps in the pH and Redox scale takes place by means of a PWM function.

The proportional band is fixed on the values: pH = 0.8 and Redox = 120 mV

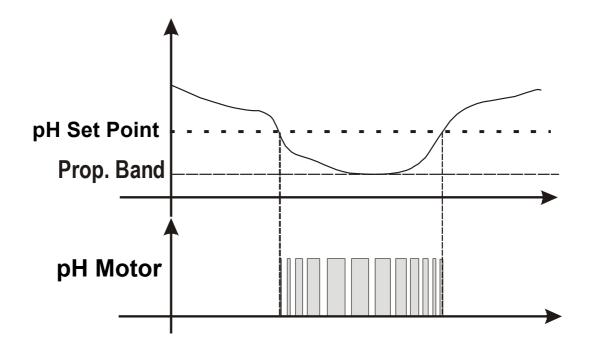


9.1 pH/Redox Proportional Dosing

The instrument allows for the chemical measurement to be modified and monitored automatically through the pH Set Point, adjusting the dose through the pH/Redox motor commanded in Proportional Time mode.

The dosage indicated below can be obtained by setting the following parameters:

- > pH Set point = 7.20 pH
- > Dose type = Alkaline
- Proportional Band = 0.80 pH

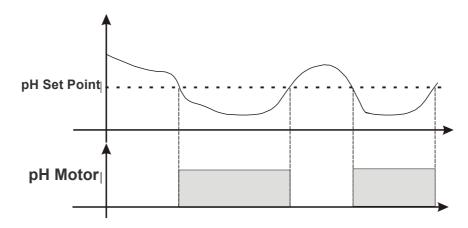


9.2 pH/Redox ON/OFF Dosing

The instrument allows for the chemical measurement to be modified and monitored automatically through the pH Set Point, adjusting the dose through the pH motor commanded in ON/OFF mode.

The dosage indicated below can be obtained by setting the following parameters:

- > pH Set point = 7.20 pH
- ➤ Dose type = Alkaline



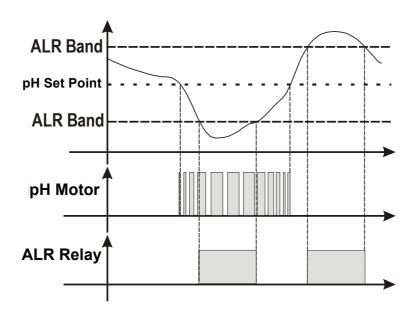
9.3 pH/Redox Set Point Alarm

By configuring the Band alarm, a working window is created. If the configured limits are exceeded, the alarm relay closes and remains closed until the measurement is restored or until the enter key is pressed to deactivate the alarm.

By configuring the OFA (Over Feed Alarm) time, the dose of the pH/Redox Set Point is monitored over time, divided into two alarms:

- At 70% of the set time the first alarm is shown on the display and the alarm relay closes.
- At 100% of the set time the second alarm is shown on the display, the alarm relay closes and the pH/Redox motor shuts down.

Press Enter to cancel the alarm and initiate the OFA time.



10. ACTIVATIONS

Flow function

By means of the recirculation pump.

High voltage 100 – 240 Vac input, the dosing system is on.

High voltage input is off (the recirculation pump is off), the dosing system displays FLOW flashing.

11. ALARMS

Lev pH= pH product level probe alarm.

Lev Rx= Rx product level probe alarm.

Lev Flocc= Flocculant product level probe alarm.

OFA pH/Rx= Set Point not reached with the OFA time set*

Band pH/RX= this alarm message is displayed when the detected value is outside of the SetPoint by +/- the set band value.

*At 70% of the set time the system displays the alarm and activates the alarm relay, at 100% it shuts down the motor. The alarm can be reset by pressing the Enter key.

Pressing the Enter key with the alarm active deactivates the alarm relay, leaving only the alarm message on the display.

12. DEFAULT CONTROL PARAMETERS

To reset the default parameters and values, do the following:

- Disconnect the device
- Hold down the + and keys simultaneously and connect the device
- Confirm the selection to restore the default parameters

Default parameters:

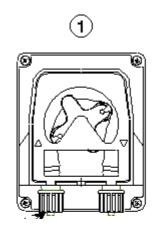
- Configuration = pH/Rx/Flocc
- Language = UK (English)
- pH Set Point = 7.4 pH; Acid; Off; 3pH PROP
- Rx Set Point = 750mV; Low; OFF; Alr Band 300mV; PROP
- Flocculant = 6x10; 1.0cc/ m³; 20 m³/h
- Temperature = 25°C
- Calibration = FULL
- Flow Input = OFF
- Password = Disabled
- Boiler enabled = YES
- Recirculation pump enabled = YES

13. LIST OF POSSIBLE ANOMALIES AND RELATIVE SOLUTIONS

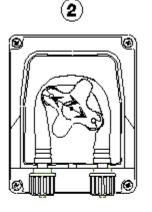
ANOMALY	CAUSE	SOLUTION
ANOMALI	- CAUCE	1) check for any short circuits on the
The instrument always indicates a pH value of 7.00	Cable and/or connector problem.	electrode ↔ instrument connection cable (between the central core of the cable and the external shielding). 2) Make sure there are no traces of humidity and/or condensation on the probe's connector or the device.
	Floring do and the same of the	3) Make sure that the 100Ω resistance is present between terminals 11 and 12.
The instrument always indicates a high or constantly unstable value	Electrode connection cable damaged.	Check the cable.
	Air bubble in the membrane of the electrode.	Place the electrode in a vertical position and shake it gently until the air bubble rises. N.B.: The electrode must be in a vertical position or at a maximum angle of 45°.
	Electrode consumed.	Replace the electrode.
	Connection cable too long or too close to an electrical cable: disturbances.	Reduce the distance between the device and the probe.
Impossible to calibrate the value of pH 7	Inadequate buffer solution.	Make sure that the solution being utilised has a pH value of 7.
		Check the pH of the buffer solution with an electronic pH meter.
		Use a new pH 7 buffer solution and repeat the calibration.
Error shown on the display pH probe calibration	Problem on the porous material of the probe, dirt residues.	Make sure that the porous material of the probe is in good condition; wash the electrode with a diluted acid-based solution and dry it with a soft cloth.
quality < 20%	Electrode consumed.	Replace the electrode.
Impossible to calibrate the value of pH 4	Inadequate buffer solution.	Make sure that the solution being utilised has a pH value of 4.
		Check the pH of the buffer solution with an electronic pH meter.
Error shown on the		Use a new pH 4 buffer solution and repeat the calibration.
pH probe calibration quality < 20%	Problem in the bulb of the electrode.	Make sure that the bulb of the electrode is not damaged. Make sure that it has not dried outside of the water. As a last resort, clean the electrode and leave it immersed in the water for a few hours.
	Electrode consumed.	Replace the electrode.
Slow electrode response	Electrode electro-statically charged.	During the calibration phase, the electrode MUST NOT be dried with a cloth or paper towel; let it drip dry.

14. HANDLING

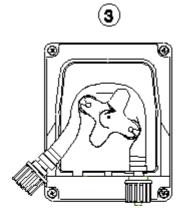
Replacing the tube:



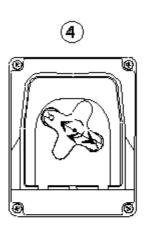
Release the cover by by pulling the left hand fitting upward.



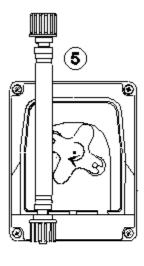
Position the roller at 10 and 20, turning in the direction of the circular arrow.



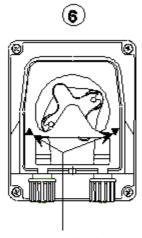
Completely release the fitting on the left, while continuing to press it outwards, and turn the roller in the direction indicated by the circular arrow so as to free the tube up until the right hand fitting.



Position the roller at 10 and 20, turning it in the direction of the circular arrow.



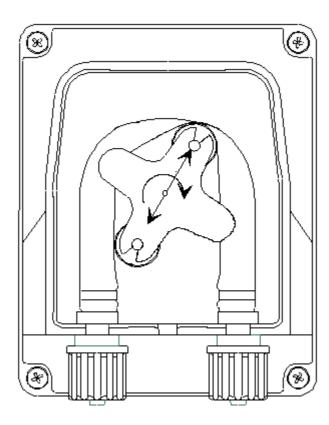
Insert the left hand fitting in the relative lodging and pass the tube beneath the roller's guide. Turn the probe holder in the direction of the circular arrow, while at the same time accompanying the tube into the head of the pump, until reaching the right hand fitting.



Arrows indicating the direction of the liquid.

Position the pump's cover, respecting the directions of the arrows ($\blacktriangle \blacktriangledown$) and press upon the surface with force to close it properly.

15. STORING THE PUMP AFTER USE



Before storing the regulation device, it is recommended to rinse the tube by pumping clean water.

Next, position the probe holder at 7 and 05, turning it in the direction indicated by the circular arrow

These two precautions will facilitate the device's subsequent reactivation.

WARNINGS

PRODUCTS TO BE UTILIZED:

- Reducing the pH value: sulphuric acid based product, easily available on the market.
- Increasing the pH value: alkaline acid based product

PRODUCTS NOT RECOMMENDED

Do not use hydrochloric acid.

For all other products, please consult the installer.

WARNINGS REGARDING THE PROBE

- Handle the probe with CAUTION.
- DO NOT INSERT AN EXCESSIVE AMOUNT of chemical product upstream from the probe.
- Storing the probe: Extract the pH probe from the relative probe holder. Store it in its original container filled with tap water. If necessary, close the probe holder with a cap the size of a 5 cent Euro coin.

As the pH electrode is made up of glass elements, it must be handled with care. All of our electrodes are tested extensively during production before being packaged.

Electrode repairs under warranty are not foreseen unless they should fail to function upon their first activation. Packaging is excluded.

In this case, in order for the probe to be accepted for review, it absolutely must be received in its original packaging, along with its relative bottle filled with water.

BEWARE OF THE FUMES

