**PROSYSTEM AQUA** is a widely experienced company in the field of water treatment. We continuously work to respect the environment, solving any difficulties in depuration and water control.
We manufacture pH pumps, Ec pumps and nutrient controllers.

We design automatic irrigation systems for all kinds of crops.

We develop home-automatic systems for the entire control of rooms.
PROSYSTEM
AQUA

Is a recognised and awarded company for its innovation
ProSystemAqua is an enterprise from Andalucía that counts on international recognitions although its youthness. Our main objective is to continue our growth day by day, offering our best irrigation systems and water treatments, affordable for every user.

ProSystemAqua is constantly presenting exhibitions of its products, in the most important fairs of agriculture and water treatment in the world. By this way, we can offer to our clients and users the opportunity to know our products and enterprise personally.

This demonstration of values of our team, along with our ongoing work, has allowed us to achieve several awards in our short but intense career. These awards are just the beginning of our cultural expansion.

It is our duty to optimize our resources, be environmentally friendly and respectful of the environment and interact with us to achieve this objective. A company with extensive experience in the field of water treatment. We work constantly to respect the environment, solving any difficulties in depuration and control of water.
YOUNG ENTREPRENEURS XXI LA CAIXA’S AWARD, EMBARK CATEGORY

We are specialists on installations of irrigation systems and water quality improvement. We have participated in numerous international projects from different ranges and categories. We count on a wide group of professionals specialized in different kinds of irrigation systems and water treatment. We adapt our controllers to all types of irrigation systems available in the sector and in all its applications.

AJE FROM CÓRDOBA AWARD

Córdoba
Jóvenes Empresarios

The Young Entrepreneurs Association from Córdoba let us be the finalists of another contest. This supposes another honor and another experience that made us improve much more.

AN AWARD, FROM ANDALUSIA EMBARKS, ‘CRECES’ CATEGORY

The Regional Government of Andalusia and its public organization created for the impulse of young entrepreneurs’ projects granted ProSystemAqua with the winner prize from ‘Grow Category’, proving with it our enterprise consolidation over the years.
AUTOMATIC
pH CONTROLLER

Cod. 01001 Automatic pH controller by ProsystemAqua

Functionalities: Hydroponics, aquaponics, seed beds, vertical gardens, backyard gardens, garden centres, aquariums, and grow shops. Mainly in any installation where regulation of pH of the water is required.

Included in the Box: pH probe, suction and discharge pipes, pH 7 calibration bottle of 50 ml, clamping brackets, fixing screws, and float for pH probe.

The automatic pH Controller by ProsystemAqua has been specially designed for continuous measurement and control of pH in water tanks.
AUTOMATIC pH CONTROLLER

* All the parts displayed are included in the package
AUTOMATIC pH CONTROLLER

1 IGNITION OF THE PUMP
Once installed the pH pump and connected to the circuit, proceed to program:
A- Enter the desired value of pH in the water tank (set point)
B- Program the mode of pH, down (acid) or pH up (alkaline).
C- Proceed to calibration.

2 MEASUREMENT OF pH
The probe detects automatically the pH level in the water and the value is displayed on the pump.

3 SUCTION OF pH DOWN OR PH UP
The pump sucks from pH Down or pH Up container, through the suction filter.
4 INJECTION OF THE PRODUCT
The Controller injects the pH Down or pH Up product through the injection valve.

5 ADJUSTED pH
Important: The recirculation Water Pump has to be working at the same time as the pH Controller for the adjustment to be accurate. The moment the pH Controller detects the programmed value of pH, it will stop the dosing.
The Automatic Ec Controller by ProsystemAqua is designed for continuous measurement and control of Ec and dispenses fertilizers, in water tanks. The flow of the Automatic Ec Controller is 0.5 L/h.

**Functionalities:** Hydroponics, aquaponics, seed beads, vertical gardens, backyard gardens, garden centres, aquariums, and grow shop. Meanly, in any installation where regulation of Ec of the water is required.

**Included in the Box:** Ec probe, cable connector for Ec probe, suction and discharge fittings, suction and discharge pipes, clamping brackets, calibration sack 1.413ms, fixing screws and P.P.R manifold for recirculating water.
AUTOMATIC EC CONTROLLER

* All the parts displayed are included in the package
AUTOMATIC **EC CONTROLLER**

1. **SWITCHING ON THE EC CONTROLLER**
   Once the Controller is installed and connected to the circuit, we can proceed programming it.
   A- Set the Ec value we want to achieve in the water.
   B- Check the compensation of the temperature, time alarm, air alarm.
   C- Proceed to the probe calibration.

2. **WATER RECIRCULATION**
   The water recirculation pump should be running at the same time that Ec Controller.de Ec.

3. **CONDUCTIVITY MEASUREMENT**
   The Ec Probe detects the conductivity in the water and the value is indicated on the display of the Controller.
4 SUCTION OF FERTILIZERS
The Controller sucks through the suction filter and pipe, from the container with the mixing of fertilizers that we have prepared.

5 INJECTION OF FERTILIZER
The Ec pump dispenses fertilizer in continuous flow through the injection valve of the manifold until achieving the value of Ec in the water tank that was set on the Controller.
pH & Ec Basic Control by ProsystemAqua allows accurate and precisely control of pH and Ec in continuous flow. Providing the necessary nutrients, and regulating the pH, until reaching the desired values in the water tank.

The constant flow rate is 40 ml/h in the pH controller and 0.5 L/h in the Ec Controller.

**Functionalities:** Hydroponics, aquaponics, seed beds, vertical gardens, backyard gardens, garden centres, aquariums, and grow shop. Meanly, in any installation where regulation of Ec and pH of the water is required.

**Included in the Box:** The controller is delivered fully installed on a methacrylate panel, where you only have to connect the water inlet, and outlet hose of the recirculation pump, by means of simple quick connections. It has installed an impurities filter for the pH and Ec probes.

Includes canister 50ml calibration pH 7, sack 20ml calibration 1,430 ms. Filters and suction tubes for the bottles of nutrients and pH.
pH & Ec Basic Control

1. Switching on the Controller
   Once the controller is installed on the panel, and connected to the circuit. We will proceed to program the pumps.
   **1-Setup the pH control:**
   A- Enter the desired value of pH in the water tank (set point).
   B- Program the mode of pH, down (acid) or pH up (alkaline).
   C- Proceed to calibration.

2. Setup the Ec control:
   A- Enter the Ec value we want to achieve in the water.
   B- Check the compensation of the temperature, time alarm, air alarm.
   C- Proceed to the Ec probe calibration.

3. PH and Conductivity Measurement
   pH and Ec probes detect the conductivity and pH value in the water tank and is indicated on the display of each pump.

2. Water Recirculation
   The water recirculation pump should be running at the same time with pH & Ec Basic Control panel and, recirculating water through the manifold.
4 SUCTION OF FERTILIZERS AND pH REGULATOR
The controllers extract product through the suction filter to regulate pH and Ec.

5 INJECTION OF FERTILIZER
The regulatory pH and Ec pumps dispense fertilizer and pH regulator through the injection valve of the manifold until the set point value of EC and pH, that we have programmed, is reached in the tank.
pH & Ec controller "is a continuous control and measurement system for Ec and pH in water tanks. The "pH & Ec controller" through two pumps A and B for nutrients and a third pH pump, regulates automatically and very precisely the fertilizers and pH of the water tank, adjusting the value of Ec and pH programmed in the controller.

Each pump is adjustable independently and proportionally, with a proportional flow rate of 0-4 l/hour.

**Functionalities:** Hydroponics, aquaponics, seed beds, vertical gardens, backyard gardens, garden centres, aquariums, and grow shop. Mainly in any installation where regulation of Ec and pH of the water is required.

**Included in the box:** The controller is delivered fully installed on a methacrylate panel, where you only have to connect the water inlet and outlet hose of the recirculation pump, through simple quick connections.

It has installed an impurity filter for the pH and Ec probes.

Air alarm sensor in Ec probe and flow sensor that deactivates the dosage in case of lack of water.

Includes canister 50ml calibration pH 7, about 20ml calibration 1,430 ms. Filters and suction tubes for the bottle of nutrients and pH.
*All the parts displayed are included in the package*
1 **SWITCHING ON THE PH&EC CONTROLLER**
   Once the panel is installed and connected to power, we will proceed to programming:

1. **Programming the pH regulator:**
   A- Establish the value that we want to obtain in the water.
   B- Set the working mode: pH down (acid) or pH Up mode (alkaline).
   C- Proceed to calibration.
   D- Adjust the proportional flow of the pH pump.

2. **Ec controller programming:**
   A- Set in the controller the value of Ec that we want to obtain in the water.
   B- Program temperature compensation, time alarm and air alarm.
   C- Proceed to calibration.
   D- Adjust the flow rates of pumps A and B.

3 **MEASUREMENT OF CONDUCTIVITY AND PH**
   The Ec and pH probes detect the conductivity and pH values in the water tank and displays them in the screen of each programmer.

4 **ASPIRATION OF FERTILIZER AND PH REGULATOR**
   The controllers suck product through the suction filters, for pH regulation and Ec regulation.

5 **INJECTION OF FERTILIZER**
   The controller doses fertilizer, through the manifold injection valve, until reaching in the water tank the value of Ec that we have programmed in the controller.

6 **INJECTION OF PH REGULATOR**
   Once the Ec is stabilized, the controller doses the pH regulator, through the manifold injection valve, until reaching the pH value in the water tank that we have programmed in the controller.

2 **WATER RECIRCULATION**
   Connect the water recirculation pump, working at the same time as the “pH & Ec controller” panel, making the water recirculate through the collector.
pH & Ec Plus controller is a continuous control and measurement system for the Ec and pH in water tanks, in addition to control the recirculation pump, irrigation pump and water temperature and automatic filling of the tanks.

Each pump is adjustable independently and proportionally, with a flow rate of 0-4 L/hour.

It has installed two independent irrigation programmers, one for the recirculation pump and the other for the irrigation pump.

It incorporates temperature control to connect the cooling system or water heating, checked on a display of the water temperature.

It also performs the automatic filling of water through a probe and level that activates the filling Electro valve that is installed in the panel.

**Functionalities:** Hydroponics, aquaponics, seed beds, vertical gardens, backyard gardens, garden centres, aquariums, and grow shop. Mainly, in any installation where regulation of Ec and pH of the water is required.
pH&Ec PLUS CONTROLLER

*All the parts displayed are included in the package
pH&Ec PLUS CONTROLLER

- pH probe
- Flow sensor
- Conductivity probe
- Impurities filter
- Electro valve
- Suction filter
- Irrigation pump
- Recirculation Water-Resistant Pump
1 SWITCING ON THE PH&EC PLUS CONTROLLER
Once the panel is installed and connected to power, we will proceed with programming:

1 Programming of the pH regulator:
A- Establish the value that we want to obtain in the water.
B- Set the working mode: pH down (acid) or pH Up mode (alkaline).
C- Proceed to calibration.
D- Adjust the proportional flow of the pH pump.

2 Ec controller programming:
A- Set in the controller the value of Ec that we want to achieve in the water.
B- Program temperature compensation, time alarm and air alarm.
C- Proceed to calibration.
D- Adjust the proportional flows of pumps A and B.

2 WATER RECIRCULATION
Connect the water recirculation pump to the controller, and program the times and sequences that we want.

3 IRRIGATION SYSTEM
Connect the irrigation pump to the controller, and program the times and sequences that we want.

4 AUTOMATIC WATER FILLING SYSTEM
Install the level probe in the water tank to indicate the maximum and minimum water level in the tank.

5 TEMPERATURE CONTROL
Connect the cooling or heating system to the controller and set the desired temperature in the water.

6 MEASUREMENT OF CONDUCTIVITY AND PH
The Ec and pH probes detect the conductivity and pH value in the water tank that are shown on the display of each programmer.

7 FERTILIZER ASPIRATION AND PH REGULATOR
The controllers suck product through the suction filter, for pH regulation and regulation of Ec.

8 FERTILIZER INJECTION.
The controller doses fertilizer, through the manifold injection valve, until reaching in the water tank the value of Ec that we have programmed in the controller.

9 INJECTION OF PH REGULATOR
Once the Ec is stabilized, the controller doses the pH regulator, through the manifold injection valve, until reaching the pH value that we have programmed in the controller in the water tank.
The nutrient controller Hydroponics System is an automatic fertirrigation system, ideal for types of crops. It is capable of applying various types of fertilizers jointly through three pumps A, B and C, and a fourth pump to regulate the pH of the water in the tank. Each pump is adjustable independently and proportionally, with a flow rate of 0-7 L/hour.

It incorporates a temperature reading that is indicated on the display.

Optional: Automatic filling of water through a level probe, which activates a filling electro valve.

Functionalities: Hydroponics, aquaponics, seed beds, vertical gardens, backyard gardens, garden centres, aquariums, and grow shop. In any kind of installation where regulation of EC and pH of the water is required.

Included in box: Plastic collector for water recirculation, pH probe, EC probe with temperature sensor, EC probe connection cable, impurities filter, hose quick connectors, canister 50ml calibration pH 7, canister 50 ml calibration pH 4, sack 20ml calibration 1.430 ms. Injectors, filters and suction and discharge tubes for the bottles of nutrients and pH.
HYDROPONIC SYSTEM
1 **SWITCHING ON HYDROPONIC SYSTEM**

Once the panel is installed and connected to power, we will proceed with programming:

1. **Programming the pH regulator:**

   **A:** Establish the value that we want to obtain in the water.
   **B:** Set the working mode: pH down (acid) or pH Up mode (alkaline).
   **C:** Proceed to calibration.
   **D:** Adjust the proportional flow of the pH pump.

2. **Ec controller programming:**

   **A:** Set in the controller the value of Ec that we want to obtain in the water.
   **B:** Proceed to calibration.
   **C:** Adjust the proportional flow rates of pumps A, B, C.
   **D:** Optional: Schedule the time for automatic water filling.

2 **WATER RECIRCULATION**

   Connect the water recirculation pump to the controller manifold, and electrically work both at the same time.

3 **MEASUREMENT OF CONDUCTIVITY, TEMPERATURE AND PH**

   The probes of Ec, temperature and pH detect the conductivity, the temperature and the pH value that is in the water tank and is indicated on the display of each programmer.

4 **ASPIRATION OF FERTILIZER AND PH REGULATOR**

   The controllers suck product through the suction filter, for pH regulation and regulation of Ec.

5 **INJECTION OF FERTILIZER**

   The controller doses fertilizer, through the manifold injection valve, until reaching in the water tank the value of Ec that we have programmed in the controller.

6 **INJECTION OF PH REGULATOR**

   Once the Ec is stabilized, the controller doses the pH regulator, through the manifold injection valve, until reaching the pH value that we have programmed in the controller in the water tank.

7 **LEVEL PROBE (OPTIONAL)**

   Level probe for regulating the water level in the tank.

8 **FILLING ELECTRO VALVE (OPTIONAL)**

   It will be activated by the “hydroponic system” through the level probe.
The pH and nutrient controller, **Hydroponic System by Computer** is the most advanced automatic fertigation system on the market. With the software “by computer” we can control by computer, all water values, as well as the irrigation system.

It is able to apply various types of fertilizers and booster jointly, and in turn regulate the pH of the water in the tank.

The dosing flow of each of the regulators, with capacity from 0 to 7 L/h, is adjustable independently.

It automatically regulates the maximum-minimum level of water in the tank, as well as the temperature.

Activates the irrigation system of both the recirculation pump and the irrigation pump.

**Functionalities:** Hydroponics, aquaponics, seed beds, vertical gardens, backyard gardens, garden centres, aquariums, and grow shop. In any kind of installation where regulation of EC and pH of the water is required.

**Included in the box:** The controller is delivered fully equipped and installed on a methacrylate panel, in which it is only necessary to connect the water inlet and outlet hose of the recirculation pump by means of simple quick connections.

It is fully equipped, including: Programming and communication manual, calibration envelopes pH7, pH4 and 1.430 ms/cm, supply and suction pipes, wall plugs and screws.
HYDROPONIC SYSTEM BY COMPUTER
1. **IGNITION OF HYDROPONIC SYSTEM BY COMPUTER**
   Once the panel is installed and connected to power, we will proceed with programming:
   1. **Programming of the pH regulator:**
      A- Establish the value that we want to obtain in the water.
      B- Set the working mode: pH down (acid) or pH Up mode (alkaline).
      C- Proceed to calibration.
      D- Adjust the proportional flow of the pH pump.
      E- Program maximum and minimum pH alarms.
   2. **Ec controller programming:**
      A- Establish the value of Ec that we want to obtain in the water.
      B- Proceed to calibration.
      C- Adjust the proportional flow of the pumps of A, B and C.
      D- Program maximum and minimum alarms of Ec.
   3. **Schedule irrigation times and work mode.**
   4. **Set the desired temperature in the water.**
      A- Program maximum-minimum temperature alarm.

2. **RECIRCULATION OF WATER IN THE COLLECTOR.**
   The controller will activate the water recirculation pump and will recirculate the water through the collector where the pH, Ec and temperature probe are installed. In case of lack of water, the flow sensor alarm will be activated and will deactivate the controller to avoid overdosing.

3. **CONDUCTIVITY MEASUREMENT**
   The Ec probe detects the conductivity in the water and is reflected on the controller’s display.

4. **ASPIRATION AND DOSAGE OF FERTILIZERS**
   The regulators for the control of the conductivity A, B and C aspirate through the filter of the cans of fertilizers and dosed through the injection valves of the water recirculation collector.

5. **PH MEASUREMENT**
   The pH probe continuously measures the value in the water that is indicated on the controller’s display.

6. **ASPIRATION AND DOSAGE OF THE PH REGULATOR**
   The pH regulator aspirates from the bottle pH down or pH up and doses through the injector until it reaches the programmed value.

7. **ACTIVATION OF THE IRRIGATION PUMP**
   The irrigation pump will be activated by the controller once the pH and Ec values are adjusted and stable.

8. **LEVEL PROBES**
   Level probes for automatic water filling in the tank.

9. **FILLING ELECTRO VALVE**
   It will be activated by the controller through the level probes.

10. **FLOW SENSOR**
    Deactivates the controller in case of lack of water in the collector.

11. **SCALER**
    The C regulator will begin dosing according to the configured pulses.

12. **WATER HEATER**
    It will be activated by the controller.

13. **TEMPERATURE SENSOR**
    It measures the temperature of the water and activates the heater according to the temperature that we have programmed in the controller.
INCREASE THE PERFORMANCE OF YOUR CONTROLLER

With the fertilizer modules of ProsystemAqua, you can increase the performance of your controller. There is a possibility to add as many modules as you require, adjusting the dosage of several fertilizers according to your needs.
WE MAKE CONTROLLERS FOR LARGE INSTALLATIONS THAT NEED HIGH FLOW RATES

*Large digitally adjustable flow
pH probe, 2.5 m cable, BNC connector  
Cod. 82301

Ec probe with temperature sensor R. M-3/4”  
for: Hydroponic System and Automatic Ec Controller  
Cod. 81302

Ec probe with 2 m cable, R. M-1/2” for: pH & Ec Controller and Hydroponic System by Computer  
Cod. 81303

4 pole connector cable Ec probe for:  
Hydroponic System  
Cod. 82011

2 pole connector cable Ec probe for:  
Automatic Ec Controller  
Cod. 82020

Flow sensor R. H-3/4”  
Cod. 81401

10 m roll. Impulsion tube PE Ø 4x6 mm  
Cod. 83513
Peristaltic tube for:
  pH Controller
  Ec Controller
  pH&Ec Controller
  Hydroponic System
  Hydroponic Computer

Cod. 84505  
Cod. 84507  
Cod. 84507  
Cod. 84507  
Cod. 84507

Electrode holder for pH probe
R.M-1/2”

Cod. 84627

Injection record with valve R.M-3/8”

Cod. 85640

Suction filter for tube 4x6 mm

Cod. 84701

Filling electro valve 220V R.M-1/2”

Cod. 86322

Water level probe

Cod. 86410
Wall bracket, plugs, screws and washers for: pH Controller and Ec Controller  
Cod. 87333

Wall bracket, plugs, screws and washers for: Hydroponic System  
Cod. 87334

Cleaner solution bottle 50 ml  
PHT 7 calibration bottle 50 ml  
PHT 4 calibration bottle 50 ml  
Cod. 89050  
Cod. 89054

pH 7 calibration solution sack 20 ml  
PHT 4 calibration solution sack 20 ml  
1413 µS/cm solution sack 20 ml  
Cod. 89157  
Cod. 89154  
Cod. 89153

Box of 20 pH 7 calibration solution sack 20 ml  
Box of 20 pH 4 calibration solution sack 20 ml  
Box of 20 1413 µS/cm solution sack 20 ml  
Cod. 89207  
Cod. 89204  
Cod. 89203

Outlet Hose 20/25  
Quick conector Female 1/2"  
Cod. 05010  
Cod. 05011

Impurities Filter  
Cod. 00400
90° Elbow R.H-1/2"
90° Elbow R.H-3/4"

Buttress PPR 1/2-1/2"
Buttress PPR 1/2-3/4"
Buttress PPR 3/4-3/4"

Reduction nut PPR for pump injector R.M-1/2", R.H-3/8"

Te PPR R.H-1/2"
Te PPR R.H-3/4"

Teflon roll 10mmx12m

Buoy float for pH probe