



# AMI PENTA CONTROLLER



## Fertilizer computer for renovating older fertilizer mixers

### Highlights

- Advanced control of plant growth
- Flexible setup of irrigation groups
- Pre-programming of up to 20 recipes
- User-friendly touch display
- Focus on the plant needs

If you have an older well-maintained fertilizer mixer in operation, which you wish to renovate in order to bring the control of the irrigation and fertilization up to the latest standards, then the AMI Penta Controller fertilizer computer offers a cost-effective alternative to purchasing a completely new fertilizer mixer. With the AMI Penta Controller fertilizer computer, you can work extremely accurate with the fertilizer mix for each individual plant culture. You will be able to do so with less daily work effort, due to the flexible and easy operation using a keyboard.

### Easy to operate

AMI Penta fertilizer mixer is easy to operate with well-arranged menus shown on a large 10.1" touch screen.

### Large capacity and flexibility

AMI Penta can control up to 100 groups with individual start conditions. For each group you can choose between 20 different recipes holding information about EC, pH and the fertilizer mix. Each group can control up to 30 valves which can be chosen freely between the 200 valves available today in the mixer. Up to 4 valves can irrigate at the same time which gives a maximal utilization of the capacity. Irrigation time and volume can be set individually for each valve.

### Precise water control

To get the same water mix to all valves in the same group, you can mix more water sources and return water in ratio percentage. Depending on how much water is available in a basin, the mixer automatically changes the mixing ratio.

### Automatic filter cleaning

When using rain water and return water, the filters for incoming water can often clog, affecting the water pressure and thereby the amount of water fed to the fertilizer mixer. Automatic filter cleaning in the AMI Penta ensures rinsing of the filter when a certain water pressure loss is detected. The rinse is performed when the mixer is not busy with other activities. AMI Penta can be equipped with the PP40S dosing pump, which gives a precise dosing at different levels in the stock solution tanks. Venturi dosing units are also a possibility, and give a precise dosing at equal levels in the stock solution tanks.

### Modern technology

When you buy an AMI Penta you get exactly the functions and the functionality you need. The software in AMI Penta is based on a standard operating system and is easy to update and expand with more functions and larger capacity when needed. AMI Penta can be connected to one central PC with the SuperLink central control program.



## SPECIFICATIONS / AMI PENTA CONTROLLER

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### Technical specifications

Supply Voltage	1 x 230 V AC +10 / -15 % 50/60 Hz
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### Standard In / out puts

Digital inputs	8
Analog inputs	4
Digital outputs	8
Communication	ETHERNET
Communication to EXP	Powerlink or ETHERNET

### Physical specifications

Temperature, running	0 - 50° C (32 - 122° F) no direct sun radiation
Humidity	0 - 95 % Rh without condensation
Proofing	IP65
Dimensions L x W x H	440 x 330 x 160 mm

### Accessories

Valve box - EC Sensor - EC Transmitter -  
pH Transmitter - pH Sensor - Sun Cell SC21

### AMI Penta controls up to

• pH, EC sensor set	2
• Dosing pumps, fertilizer	8
• Dosing pumps, acidity	1
• Main pumps	2
• Valves	200
• Tanks, recirculation	8
• Recipes	20
• Groups	100
• Supply pump	1

### Program contents

- Irrigation on time or volume
- Volume registration
- EC control 2-8 stock solutions
- EC control, relative, absolute or ratio
- Mixing of fresh water and return water
- EC depending on solar radiation
- Automatic period with 4 time zones
- 24-hour pause, fixed time or fixed interval
- Manual start of individual valves
- Pre and post rinse valve
- Sun integrator
- Drain control
- Volume control
- Analogue start
- External start
- Fixed time interval
- Frost protection
- 24-hour program

### Alarms

- EC1/2 and pH1/2 min./max., absolute
- EC and pH min./max., relative
- Flow alarm

### Separate choice of units

- Volume: Liter, m<sup>3</sup>, gallon
- Flow: l/min, 0m<sup>3</sup>/h, gpm
- Temperature: °C, °F
- Irrigation time: mm:ss, hh:mm
- Energy: kJ, Wh

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