



AMI PENTA CONTROLLER



Fertilizer & irrigation controller for renovating older fertilizer mixers

Highlights

- For renewal of existing controller from either Senmatic or other vendor
- Utilise the capacity in a smarter way
- Get the newest mixer software
- Software for all groups, recipes and opening of valves is included in the price - no extra future cost if your needs change
- Focus on the plant needs

If you have an older well maintained fertilizer & irrigation 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 offers a cost effective alternative to purchasing a completely new fertilizer & irrigation mixer.

Easy to operate

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

Many languages are available and it is easy to switch between them. This minimizes the risk of human errors in nurseries employing people from several different countries.

Get 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 9 valves can irrigate at the same time which gives a maximal utilization of the pump capacity. Irrigation time and volume can be set individually for each valve.

Optimizing of water resources

To get the same water mix to all valves in the same group, you can mix fresh 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 according to a time schedule. By using up to 3 filters it is possible to use both the filters and continuing the watering at the same time.

Modern technology

When you buy an AMI Penta controller you have all the software for the mixer. By adding some relays it is possible to build a controller fitting your needs and taking the installation in the nursery into account. AMI Penta controller can be connected to one central PC with the SuperLink central control program for further analysis of data.



SPECIFICATIONS / AMI PENTA CONTROLLER

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

Alarms

- EC1/2 and pH1/2 min./max., absolute
- EC and pH min./max., relative
- Flow alarm
- Many user-defined alarms in more time zones

Accessories

Valve box - EC Sensor - EC Transmitter -
pH Transmitter - pH Sensor - Sun Cell - Dosing
Pumps PP40S or NH - Venturi - Drain tray - SIIP -
weather station - and a lot more

AMI Penta controls up to

- pH, EC sensor set 2
- Dosing units, fertilizer 7
- Dosing units, acidity 1
- Main pumps 2
- Valves 200
- Tanks, recirculation 8
- Recipes 20
- Irrigation groups 100
- Different basins 8

Program contents

- Irrigation on time or volume
- SIIP (Senmatic Intelligent Irrigation Program)
- Flow from 5 - 200 m³
- 6 time zones per day - 6 different watering strategies
- Volume registration
- EC control 2-8 stock solutions
- Mixing of fresh water and return water
- EC depending on solar radiation
- 24 hour pause, fixed time or fixed interval
- Automatic filter cleaning
- 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
- Week program

Separate choice of units

- Volume: Liter, m³, gallon
- Flow: l/min, 0m³/h, gpm
- Temperature: °C, °F
- Irrigation time: mm:ss, hh:mm
- Energy: kJ, Wh

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