



# AMI PENTA CONTROLLER

- ✓ For renewal of existing DGT by Senmatic controllers or other suppliers
- ✓ Make smarter use of capacity
- ✓ Get the latest mixer software
- ✓ Software for all groups, recipes and valve opening is included in the price - no extra costs in the future if your needs change.
- ✓ Focus on the needs of the plant



## Fertilizer & irrigation controllers for renovation of older mixers

If you have an older, well-maintained fertiliser and irrigation mixer that you would like to renovate in order to bring irrigation and fertiliser control up to the latest to the latest standards, the AMI Penta controller offers a cost-effective alternative to buying a completely new fertiliser & irrigation mixer.

### Easy to use

- The AMI Penta fertiliser mixer is easy to operate with clear menus displayed on a large 10.1" touch screen.
- Many languages are available, and it is easy to switch between them. This minimises the risk of human error in nurseries with staff from 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 from 20 different fertilizer recipes with information on EC, pH and fertilizer mix.
- Each group can control up to 30 valves, freely selectable from the 200 valves currently available in the mixer.
- Up to 9 valves can be watered simultaneously, giving maximum capacity utilisation. Watering time and volume can be set individually for each valve.

### Optimising 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 percentage ratios.
- Depending on how much water is available in a basin, the mixer automatically changes the mixing ratio.

### Automatic filter cleaning

- When using rainwater and return water, the incoming water filters can often become clogged. This can affect the water pressure and therefore the amount of water delivered to the fertiliser mixer. Automatic filter cleaning ensures that the filter is rinsed according to a schedule.
- By using up to 3 filters, it is possible to use the filters and continue watering at the same time.

### Modern technology

- When you buy an AMI Penta controller you get all the software for the mixer.
- By adding a few relays it is possible to build a controller that meets your needs and takes into account the installation in the nursery.
- AMI Penta controllers can be connected to a central PC with the SuperLink central control programme for further data analysis.



# SPECIFICATIONS / LCC1 CLIMATE CONTROL

## 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, operation:	0 - 50°C (32 - 122°F) No direct sun radiation
Humidity:	0 - 95 % RH Without condensation
Density:	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 - Sol 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 m<sup>3</sup>
- 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, m<sup>3</sup>, gallon
- Flow: l/min, 0m<sup>3</sup>/t, gpm
- Temperature: °C, °F
- Irrigation time: mm:ss, hh:mm
- Energy: kJ, Wh

## Distributor:

Version: 13092023

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