# VA PENTA IRRIGATION CONTROLLER



## For control of irrigation valves in different installations

**Highlights**

- Software is integrated - therefore no extra cost for expansions
- Flexible setup of irrigation groups
- Large capacity and flexibility
- User-friendly touch display
- Your language is available

VA Penta controls the irrigation valves in particular in nurseries, commercial greenhouses and garten centres , and the group division from AMI Penta fertilizer & irrigation mixer recurs in this controller. Therefore, irrigation valves can be put into the 100 groups used for understandable divisions of your irrigation areas. Manual start is an option, but also a wide range of start inputs are available.

**The advantages of the VA Penta software**
The intuitive and user-friendly software makes VA Penta easy, clear and simple to operate with well-arranged menus shown on a large 10.1" touch screen. Many languages are available and switching between them is very simple. This minimizes the risk of human errors in nurseries employing people of different nationality.

In the grouping, valves are placed in groups with associated irrigation times. At manual start, the group is started with a few pressures and the group's valves are activated

in the entered order. It is also possible for VA Penta to start and stop a pressure pump while watering.

**Large capacity and flexibility**
VA Penta can control up to 100 groups with individual start conditions. Each group can control up to 30 valves, and these 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.

**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 VA Penta ensures rinsing of the filter according to a time schedule.

**Modern technology**
When buying a VA Penta, you get exactly the functions and the functionality you need. The software in VA Penta is based on a standard operating system and is easy to update and expand with more functions when needed.

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# SPECIFICATIONS / VA PENTA IRRIGATION CONTROLLER

## Technical

| | |
|---|---|
| Supply Voltage | 100 - 240 V AC - 50/60 Hz |
| Irrigation valves | 24 V DC, 0.5 A or 24 VAC, 0.5 A |
| alarm outputs | 1 digital output 24 V DC, 0.5 A |
| Communication | ETHERNET |
| Communication to EXP | Powerlink on ETHERNET |
| Digital output | 8 |
| Digital input | 8 |

## Physical

| | |
|---|---|
| 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 - Sun Cell - Draing tray - Weather station - and more

### VA Penta controls up to
- Main pumps                    2
- Valves                            200
- Irrigation groups            100

### Program contents
- Irrigation on time or volume
- 6 time zones per day - 6 different watering strategies
- 24 hour pause, fixed time or fixed interval
- Manual start of individual valves
- Up to 8 valves in parallel
- Sun integrator
- Drain control
- Volume control
- Analogue start
- External start
- Fixed time interval
- Frost protection
- 24 hour program
- Week program

### Alarms
- Flow alarm