

Advanced controller for irrigation and plant nutrition management.



+ Main features

- ▶ It works with 12 V DC or 24 V AC power supply voltages.
- ▶ 16 digital outputs and 8 digital inputs.
- ▶ Possibility of connection to the weather station.
- ▶ Communication with smartphone or PC through Internet.
- ▶ Available in a built-in model for installation in an electrical panel or in AZUD QGROW AT equipment and a surface model for wall installation.
- ▶ Up to 9 injection lines of fertilizers and one acid, 9 flow meter, 9 motor pumps, 100 valves, 30 dosing recipes and 20 automatic backflushing filters.
- ▶ The option to fertilise and irrigate through control of pH and EC, time and by volume.
- ▶ pH & EC: 2 alarm levels.
- ▶ Control unit languages available: Spanish, English, French and Portuguese.

+ General Features

Number of water systems	1
Fertilizer dosing channels per water system	9
Acid dosing channels per water system	1
Irrigation pumps	9
Maximun valve	100
Flow meters per water system	1
Fertilizer flow meter per water system	9
Start irrigation programs	99
Valve groups	99

Max. valve groups per start program	10
Number of valves per group	15
Dosing recipes	30
Number of demand trays	15
Weather station	✓
Pluviometer's reading	✓
Control of sunrise and sunset time	✓
Simultaneity of programs within the same water system	✓

See table on the back. →

+ Fertilizer Injection

pH and EC's Reading	✓
pH control	✓
EC control (Ideal or Incremental)	✓
Double pH sensor	✓
Fertilizers dosing based on volume (total)	✓
Fertilizers dosing based on volume (liter / m ³)	✓
Fertilizers dosing based on volume (discrete)	✓
Fertilizers dosing based on time	✓

Fertilizers dosing based on time (sequential)	✓
Fertilizer volume control without fertilizer meter	✓
Booster pump control	✓
Fertilizers agitator / blower control	✓
Differential EC's increase control	✓
Differential dosing recipes on every valve group	✓
Different dosing recipes for each phase of the group	✓
Correction of ideal's CE by radiation	✓

+ Irrigation Types

Irrigation duration based on time	✓
Irrigation duration based on volumen	✓
Time activations	✓
External activations	✓
Sum radiation actiations	✓

Program starts depending on external analog sensors	✓
Number of external sensors by program	✓
Link between different programs	✓
Automatic correction of irrigation time based on radiation	✓

+ Filters

Number of filters automatic backflushing	20
Filters automatic backflushing	✓
Start of filters backwashing with differential pressure sensor signal	✓
Start of filters backwashing depending on accumulate irrigation time	✓
Start of filters backflushing by accumulated irrigation volume	✓

+ Alarms

pH and EC alarms monitor	✓
pH: 2 alarm levels	✓
EC: 2 alarm levels	✓
Maximum and minimum pressure alarm	✓
Water system external pause	✓
Flow alarm	✓
Rain, storm and frost alarm	✓

+ Hardware / Software

Free input & outputs assignment	✓
Analog inputs	Extensible
Possibility of hardware extensions	✓
Analog output control for fertilizer dosing channel and irrigation pump	✓

+ Communication

Communication with PC	✓
Web/App communication	✓

* SISTEMA AZUD, S.A reserves the right to change the characteristics of these products without prior notice.