



STOCKER HORTICULTURAL & HYDROPONIC SUPPLIES (2004) LTD

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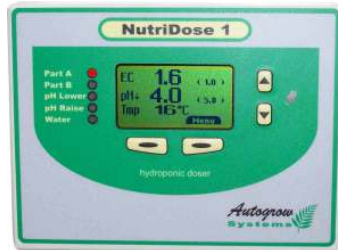
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Greenhouse Automation

NutriDose I Mk2



The new NutriDose 1 is a simple, rugged hydroponic CF/pH doser. The controller has a simple menu system that allows you to set the nutrient CF and pH set point, calibrate the sensors and set dose timings etc. An optional PC interface may be added to view readings, view and change settings, log data for viewing in graphical format and sound alarms should anything go wrong.

Features:

- Simple to operate
- Reliable – fail safe dosing inhibits
- Dose both CF and pH lower or raise and also measure nutrient temperature
- Units can be changed to EC or CF
- Auxiliary output may be used as an irrigation output
- Auxiliary output may alternatively be used to add water to lower the CF during specified time periods – can help to avoid tip-burn in lettuce etc
- Optional solar sensor may be added to provide solar integration for irrigation triggering or to auto-synchronise dawn/dusk times
- Serviceable – easy to unplug wiring and swap out circuit board
- Fail-safe dosing – dosing stops if CF or pH is out of range
- Optional PC interface to CompuGrow software

NutriDose II

In addition to dosing CF and pH raise or lower, this controller has a number of features that set it apart from other dosers. For example, has a full PC interface, it allows a different CF to be set for day and night, has additional outputs that can be used for two zone to-waste applications. It also measures the nutrient temperature and can switch on a heater (or Chiller) to control this. The two extra outputs can be used to switch on pumps and valves to allow it to operate as a simple two zone batch fertigation system (or even remotely control events such as reservoir dumping or adding additional water to dilute the CF. The NutriDose II has an advanced PC interface that provides data logging and subsequent graphical display of CF, pH and nutrient temperature as well as the ability to remotely set the controller. It also provides remote alarms via the PC or mobile phone.



Features:

- Cf resolution 0.1CF (0.01mS/cm)
- PH resolution 0.01pH
- Temperature resolution 0.1 Deg C
- Conductivity in EC (mS/cm or CF units)
- Different day and night set points for CF
- Logs CF, pH, Temp to disk every 5 or 1 minute
- Easily recalibrated
- Controller continues to operate if PC goes down
- PC can be up to 1200m from controller
- Two year warranty
- Dose using peristaltic pumps or solenoid valves



AutoVent 2 with optional PC control

This is not just a controller to open and close the vents and sidewalls; it also has outputs for the heating, fogging, fan and shade control.

There is also an optional weather station with rain, wind and solar sensors, which tell the Autovent controller when to open and close the vents and by how much depending on the weather. It will open the vents relevant to the wind direction and also relevant to the rainfall.

Features:

- Suits most types of vented roof and/or side vented greenhouse
- Heating – proportional or ON/OFF
- Advanced algorithm for venting and heating to give good control of temperature and humidity
- Fogging control – pulsed (optional 4 zones)
- Stirring fan control
- Exhaust fan control (variable speed or ON/OFF)
- Four time zones to allow detailed profiling of environment
- Optional CO2 injection
- Optional lighting control
 - supplemental
 - photo period manipulation
 - photosynthesis day top-up
 - 3 independent banks with switching time separation and min on/off times
- Optional PC interface with remote setting, data logging, event logs, remote access etc
- Some options require the addition of an output expansion module

There is also other dosing and environmental control options, if you are considering any control equipment, we can help choose the correct equipment for the site.

We offer a free design and costing service with ongoing advice and materials at very competitive prices.

If you have any queries or think you would like to try Hydroponics, please contact us one of the following ways:

Phone **07 883 1051**

E-mail – **stocker@xtra.co.nz**

Website – **www.hydroponics.co.nz**