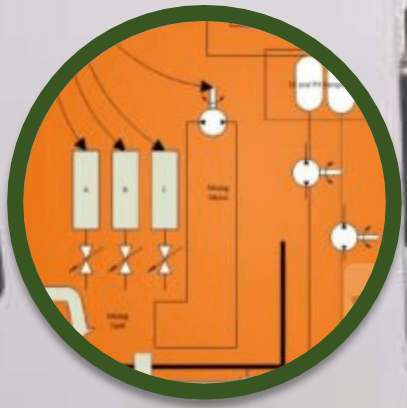
Emesh Farms Technik

The Healthy Planet

Nutrient Mixing & Dosing Solutions



Fully Automated Nutrient Mixing and Dosing System

Nutrient Dosing with Integrated Multiple Greenhouse

Nutrient Mixing and Dosing System

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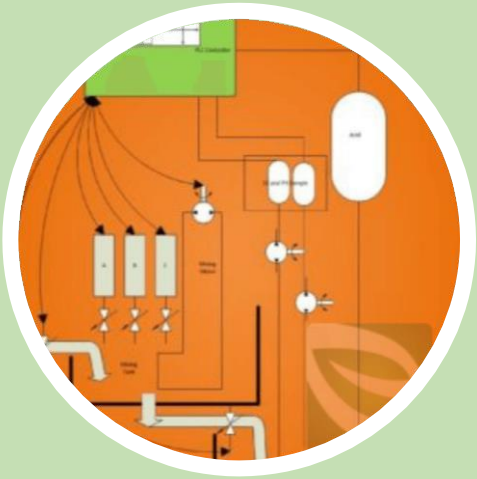
Fully Automated Nutrient Mixing and Dosing System

Integration of greenhouse operations with nutrient mixing and dosing through this software based controller gives flexibility of making irrigation or fertigation decision based on the ambient conditioned. Very flexible, controller allows comprehensive greenhouse and nutrient mixing controls.

Nutrient Mixing and Dosing System offers an unique integration of Nutrient dosing and mixing unit with the Greenhouse automation. It allows control of irrigation, fertigation, greenhouse temperature, humidity, radiation level, water temperature etc to the very precise level. For example, if outside is cloudy then why water plant so many times as opposed to when outside is very sunny. Controller senses these conditions and automatically adjusts EC/Ph level and watering conditions.

Following are its main features:

- System to mix Hydroponic nutrients in precise quantities with calibration of EC and Ph to best suit the plant growth need
- It has complete Greenhouse (GH) controls including Fan-Pad system, Fogging, Drips, Circulating fans, Radiation based watering etc
- It offers online monitoring and control of all critical greenhouse functions
- It provides integrated operations of plants nutrients and watering with GH parameters
- Nutrient Mixing and Dosing System is suitable to irrigate from 10000 Sq ft green house to 3 Acre green houses
- It offers settable auto schedule different crops and stages like nutrients mixing, watering to plants and Greenhouse environment controls
- It has separate parameters setting for Day and Night
- It offers choice of SMS alerts and data logging for all critical parameters



Allows control of
- Irrigation, fertigation
- Greenhouse temperature
- Humidity,
- Radiation level
- Water temperature

Complete Greenhouse controls
- Fan-Pad system
- Fogging, Drips
- Circulating fans
- Radiation based watering

Nutrient Dosing with Integrated Multiple Greenhouse

Online monitoring and control of all critical greenhouse functions

Suitable to irrigate from 10000 Sq ft green house to 3 Acre green houses

Unique integration of Nutrient dosing and mixing unit with the Greenhouse automation allows control of irrigation, fertigation, greenhouse temperature, humidity, radiation level, water temperature etc to the very precise level. For example, if outside is cloudy then why water plant so many times as opposed to when outside is very sunny. Controller senses these conditions and automatically adjusts EC/Ph level and watering conditions.
This controller allows control of multiple (upto 3) Greenhouses through a common software.

Nutrient Dosing with Integrated Multiple Greenhouse is an ideal integrated single automated solution for multiple greenhouses. through the same controller it manages both hydroponic nutrient dosing and mixing and greenhouse operations. Through integration, it is capable of interplay of various parameters across the greenhouses. Following are its main features:

- System to mix the Hydroponic nutrients in precise quantities with calibration of EC and Ph to best suit the plant growth need
- It has Complete Greenhouse (GH) controls including Fan-Pad system, Fogging, Drips, Circulating fans, Radiation based watering etc
- It offers online monitoring and control of all critical greenhouse functions
- It has Integrated operations of plants nutrients and watering with GH parameters
- Nutrient Mixing and Dosing System with Integrated Greenhouse Controller – Multiple GH is Suitable to irrigate from 10000 Sq ft green house to 3 Acre green houses
- It allows settable auto schedule different crops and stages like nutrients mixing, watering to plants and Greenhouse environment controls
- We can have Separate parameters setting for Day and Night

Nutrient Mixing and Dosing System

Innovative Nutrient dosing and mixing machines allows nutrient mixing and precise control over dosing quantities to the main unit. Software based controller gives lots of flexibility and options to the users

Nutrient Mixing and Dosing System is an advance hydroponic nutrient dosing and mixing solution to the precise quantity. Have both online and offline versions

Architecture and functionality of these units take Greenhouse and Hydroponic Automation to the next level. They offer very detailed and flexible feature list which helps to configure and independently control all parameters to the desired value. Following are its main features:

- Nutrient mixing and Dosing System to mix Hydroponic nutrients in precise quantities with calibration of EC and Ph to best suit the plant growth need
- Product is configurable to 3 or 4 tank system
- It can take the stock solution from three part nutrients and one part Acid or two parts nutrients and one part Acid.
- It offers online monitoring and control of EC and PH
- Offers special online valves and mixers for uniform mixing and dissolving of nutrients
- It is suitable to irrigate from 100 Sq ft green house to 3 Acre green houses
- It offers settable auto schedule for nutrient and watering to green house and plants
- It can have separate EC and Ph setting for Day and Night
- It offers choice of SMS alerts and data logging for all critical parameters

Server based settings, for type of crop and their stages, that are synchronised with PLC

Precise quantities with calibration of EC and Ph to best suit the plant growth need

Suitable to irrigate from 100 Sq ft green house to 3 Acre green houses