

# ProDrain™



- Supplies water (irrigates) exactly when your crops need it
- Continuously shows plant growth and plant transpiration
- Precisely monitors water content and drainage volume
- Spreads weight measurement over several plants to provide a more accurate picture of your crop
- Competitively priced



## Accurate dosing and drainage

Do you want the irrigation of your crops to be more precise? Are you looking for an accurate drainage program during the day? Do you want to prevent your crop receiving too much or too little water in the evening or at night? And do you want to be able to monitor the growth and transpiration of your crop? Then the ProDrain™ system, patented by HortiMaX, is the solution for you! ProDrain™ was specially developed for Synopta 2 users.



# ProDrain™

## **ProDrain™ C (specially designed for hanging crops)**

ProDrain™ C is the expanded version of the ProDrain™, specially designed for 'hanging' crops, such as tomatoes and cucumbers. ProDrain™ C has two or four extra load cells to separately measure the weight of the crop plants using crop wire. Because the crop weight is determined separately, the program can provide a lot of additional information. This includes current information on plant condition, growth, transpiration, production and leaf shedding. This means you can keep a close eye on the status of your crop. In short, ProDrain™ enables you to fully monitor and control your crop processes!

ProDrain™ continuously measures the weight of the substrate and the weight of your crop independently. This provides you with a very reliable picture of the substrate's water content, the drainage volume and the status of your crop. You can subsequently use this information to adjust your irrigation program. The special computer program, which comes with the ProDrain™, also monitors crop growth, the crop's water uptake and plant transpiration. This allows you to take immediate action if crop growth or plant transpiration falls short of your expectations, saving you valuable time. Without ProDrain™ you won't notice any undesired effects until your crop is showing the results of those ill effects.

## **ProDrain™ (for all crops grown on substrate culture)**

ProDrain™ is very suitable for crops grown on substrate. The system works as follows: Two or four sensors weigh part of the substrate, after which the ProDrain™ sensor accurately determines the drainage volume from the substrate on a minute to minute basis. The computer program, which is also included, displays the fluctuations in water content and drainage volume over a 24-hour period. The program can also display the desired water content of the substrate slab and the desired drainage percentage in the same graph (this means no more conflicting water content and drainage settings!). The figure on the left shows you the desired slab saturation (where the blue line runs below the 0/100% line) and the set desired drainage (where the line exceeds the 0/100% line). Based on the red and gray 'alarm lines', a warning will be displayed if the slab's water content or drainage percentage exceeds the set range. The computer automatically adjusts the irrigation requirements, so fluctuations in the water content and drainage during the day and night will match your settings. In addition, the computer responds immediately to sudden weight changes (because of harvesting, for example) and accurately determines the satu-

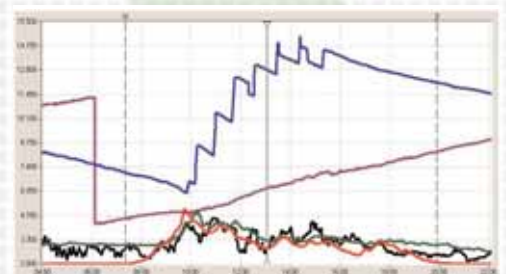
ration weight of the substrate at the start of each new drainage cycle. This ensures irrigation remains stable, even if sudden changes occur as a result of drafts or other effects on your crop. Finally, ProDrain™ enables you to constantly monitor the amount of water consumed by your crop.

## **How does ProDrain™ work?**

ProDrain™ is able to filter all the required information from the measured gross weight of the substrate and the measured weight of the plants. The intelligent and unique software performs its calculations based on pattern recognition. If, for example, the substrate weight slowly declines, it will be contributed to water uptake by the crop. A rapid decline, on the other hand, is caused by the discharge of drainage from the drainage sensor (which is also attached to the substrate slab). Irrigation is made visible because it causes a rapid increase in the substrate weight. This is the method used to calculate and display all the readouts.

## **Want to know more?**

Please contact HortiMaX +31 (0)15 362 03 00 or one of our dealers in your area. You can also visit our website at [www.hortimax.com](http://www.hortimax.com)



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growing solutions