

E-NEWS

GROWLAB Plantivity
(Nominated for the Innovation Award 2004)

At the International *Hortifair* 2004, Hoogendoorn Automation introduced a world first in Growlab plant sensors for **measuring the plants' vitality**. We have developed a software module within the Hoogendoorn **ECONOMIC** especially for GROWLAB Plantivity, where the grower can see at a glance how vigorous his plants are.



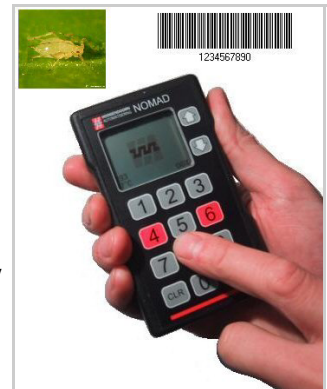
Through continued registration of the plant's vitality, the grower can raise his crop through the optimisation of the plants' growth and plant development, via his climate control system (screens, temperature, CO₂, RH). Until now, it was impossible to measure plant vitality and actually use this for controlling it as well. Using a highly advanced Growlab sensor especially developed for greenhouse growing, it is now possible for the grower to get the most out of his crop.

ECOHYDRO

The ECOHYDRO is a standalone processor unit for the control of irrigation and fertilisation, including conductivity regulation, pH regulation, valve control via time and volume, fertiliser mixing, pumping, filter cleaning and drainage. Furthermore, ECOHYDRO features a breakdown and fault detection system, including complete visualisation of data. The basic model consists of 40 independent outputs, plus 16 inputs for digital signals and 16 analogue inputs, which can be extended at any time in the future.

New NOMAD Key with Barcode Scanner

NOMAD is Hoogendoorn Automation's wireless registration system. This system works with wireless registration terminals (NOMAD keys). We have developed a completely new NOMAD key, where in addition to inputting via the key pad, it is now also possible to input data using a barcode scanner. This makes it even easier for your employees, and they are able to work faster, without the risk of mistakes. For instance, they can now scan in employee number, row number, handling, and pests and diseases.



The Dytar Weighing System

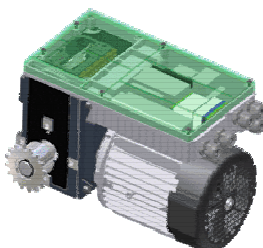
A new weighing system now makes it possible to, for instance, measure vine tomatoes and include them in your total logistic registration. Hoogendoorn, in cooperation with AMS Automation, are introducing an enhancement for registration systems, under the name of "Dytar". Using Dytar, it is possible to precisely establish which employee has undertaken measuring and final control of the crate. The results can be viewed both graphically and via reports on your computer. These most up-to-date weighing systems are suitable for use in combination with other registration systems.



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Exclusive Cooperation with Ridder LogicLink® Motors

Hoogendoorn has developed a unique software module for controlling these new-generation motor units. By adapting these new motors, installation costs for the grower can be considerably reduced. The decentralisation of control processes is one of the most important trends in the automatisisation of state of the art projects. Ridder's answer to this trend is a motor with an electrical bus connection. By adding a bus system, the motor unit can be controlled via a shared control cable.



Connecting Growlab – LetsGrow.com

As a result of the intensive cooperation between Hoogendoorn Automation and LetsGrow.com, it is now possible to read data from Growlab plant sensors within the program Crop Comparisons by LetsGrow.com. This combination now enables the grower to compare data with those of his competitors and/or advisors in a very simple manner. This provides you with a better plant analysis. We will be organising some workshop days to demonstrate these new possibilities. You can learn how this data is controlled and how the plants' real needs can be represented in a diagram.



The new GROWLAB Plantivity sensor comes as a complete package included with the Crop Comparison Software by LetsGrow.com.

GROWLAB WET Sensor

The new Growlab WET Sensor is now suitable for even more substrates. The sensor displays the substrate's humidity content, and in addition to Perlite, the sensor is also suitable for clay particles, potting compost and coco.



You also now have even wider possibilities, so that the WET Sensor can be connected directly to the climate control computer. To run this with the software module "moving plant", there is also a special wireless version available.



New HOOGENDOORN ECONOMIC version



There is now a new HOOGENDOORN ECONOMIC version update available. This features a great number of improvements and adjustments, including (to mention but a few) improved graphics; a more detailed help screen facility; new features for flexible watering

- control; improved radiation influence settings;
- and new lighting programs, and much, much more.

And to go with the new ECONOMIC...

Once more, that time of the year is almost upon us to extend our warmest Seasons Greetings to you. We are pleased to announce that with the coming of the New Year, we will also be able to offer an additional service courtesy of our new systems consultant and adviser, Sarah Linck. Sarah will be pleased to discuss all your training and consultancy requirements with you, so we can provide you with just the right course to fulfil your specific training needs and requirements.



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