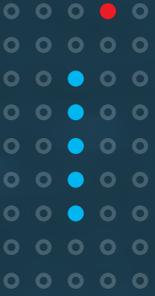




**hoogendoorn**  
growth management

# iSii compact

Easy to use irrigation and climate computer for greenhouses & open fields





## The world's most user-friendly irrigation and climate computer

Your open field and greenhouse crops deserve the best care and attention. The iSii compact is the world's easiest to use climate and irrigation computer and is tailored to meet the needs of your crop. This helps you to increase crop quality and to save water and fertilizers with less effort.



# The most flexible climate and irrigation computer

Hoogendoorn has used its 48 years of experience and expertise in the horticulture industry worldwide to develop the most user-friendly irrigation and climate computer: the iSii compact. This computer is available with irrigation controls, climate controls or both.

The iSii compact computer has been developed for progressive growers of greenhouse and open field cultivation, who seek to maximize crop quality at lower costs. You can easily set a sustainable climate or irrigation strategy with a click, swipe or tap. Irrigation and climate controls automatically respond to changing conditions inside and outside the greenhouse. This reassures that your crop always grows in the best possible circumstances.

*"Since I have been using the iSii compact my crop is more consistent and I realize savings on water and fertilizers."*

Greg Nowak, Stan Ouding Bedding Plants Inc (USA)



## Long-term investment

The iSii compact is modular: you only pay for the features that you need. You can choose your desired climate controls, irrigation controls or a combination of both: iSii compact is fully aligned with your cultivation. In addition, as your company grows, you can expand your existing system with supplemental software. This makes iSii compact a long-term investment for an affordable price.



## Why Hoogendoorn?

Together with our customers and leading universities we have developed state-of-the-art technology for thousands of growers, breeding companies and universities all over the world. We invest 15% of our annual turnover in new products to ensure these are equipped with the latest technologies.

We focus on long-term relationships with our customers, partners and consortia. We accomplish this through our local offices and worldwide partner network. Hoogendoorn is a member of the Batenburg Group, a strong and stable holding, listed on the AEX.





# Water dosage to the plant's needs

The wide range of irrigation controls in iSii compact allows you to align the water dosage to the plant's needs. This is tailored towards your type of installation, e.g. sprinklers and drip systems, and controls can be mounted to any existing irrigation unit. It's also possible to reuse drain water with the use of an EC recirculation control, or to mix various water sources.

## The right recipe for each crop type

Apart from AB type control iSii compact also supports the ABCD type control. With this, the right recipe for each crop type can be compiled by entering a feed dosage percentage of the fertilizer feed tanks for each individual zone. With these features you set the basis for growing a healthy crop with responsible use of water and fertilizers.

## Accurate acid and fertilizer dosage

You can easily set the desired pH value and EC level of the irrigation water to compose a custom recipe for your crop. Smart pre-controls, based on flow measurements, ensure an accurate acid and fertilizer dosage. For extra security EC and pH controls can be equipped with an extra monitor sensor.

# Managing greenhouse climate

The climate software in the iSii compact helps you to achieve the ideal greenhouse temperature and humidity. With the climate software you can e.g. control your screens, CO<sub>2</sub> level, vents, recirculation fans, heating, Pad and Fan, and lighting.

Controls can be connected together to become active on the same conditions. For example: the recirculation fans become active when the curtain closes. With this you are able to create a uniform climate, reducing pests and diseases to a minimum. This allows you to increase the quality of your crop and yields with minimum use of resources, such as pesticides and energy.

*"Via my smart phone I can see how much water is being given and which climate installations are running. This allows me to make adjustments throughout the day."*

Frank Vila, Vila SA (FR)

## Lower energy costs

The curtain control enables you to control your curtains for both shading and energy saving purposes. Based on the actual radiation level, the shading screen control sets your curtain in the most beneficial position and minimizes the risk of the sun burning the plants. By combining clock time, greenhouse temperature, and outside temperature in the energy curtain control you are able to create favorable growing conditions and lower energy costs.

## Favorable growing conditions

With the ventilation control both top ventilation as well as side ventilation can easily be controlled based on greenhouse temperature set point and temperature range (P-band). Besides temperature, the minimum vent position can also be controlled by Relative Humidity (RV). This enables you to optimize greenhouse climate according to plant requirements.

## Easy set-up

Based on your requirements and wishes our local partners configure your system with pre-defined climate and/or irrigation controls. In the set up menu you chose your own strategy: the number of valves and zones, method and quantity of fertilizer dosing (e.g. EC, PH, cc per plant) and the desired start conditions (e.g. radiation sum). With this, iSii compact is a step towards higher cultivation yield in less time.

## Optimize your cultivation strategy

For both climate and irrigation controls a combination of release conditions can be programmed. This means that specific controls will only be activated according to certain circumstances and periods. For example: when the curtain release conditions are connected to the fan controls both become active under the same conditions. So if the curtain closes automatically the fans will start running, which ensures an active growth climate.

# Durable industrial hardware components

The iSii compact complies with the latest technology standards and is equipped with industrial hardware components. These high quality components are available worldwide and assure accurate measurements and control. Moreover, the hardware is applicable to all sensors and horticulture systems from third parties. In other words: iSii compact fits your wishes without changing your current equipment and installations.

With respect to our high end system, the next generation iSii, the iSii compact uses the same I/O components. The advantage is that iSii compact will be compatible with future upgrades to the next generation iSii. This makes iSii compact the best value for money computer. Moreover, its control station's, an industrial pc, is selected for reliability and endurance in a natural ventilation configuration. Control stations without fans avoid dust intake which increases lifespan.



## To measure is to know

In order to maintain an ideal climate and ensure the highest savings, it is important to know the growing conditions of your crop. For this reason, Hoogendoorn offers several sensors that measure the inside and outside conditions.

These high quality sensors include:

### Weight Scales

An irrigation start can be based on the weight of a connected scale. If the slab weight drops below a set weight the irrigation starts. The release condition weight scale is combined with a minimum interval time release condition.

### Compact weather station

The weather station measures the outside environment conditions, such as temperature, wind direction, radiation, humidity, GPS, solar position, etc. iSii compact uses this information to optimize, e.g., irrigation, ventilation, and shading screen controls.



## Accurate I/O system

Datapoint Input & Output modules (I/O) for measurements and actuations improve reliability and save costs, because you only buy the number of inputs and outputs that are required. You can add extra I/O modules which make the hardware future-proof. LED indicators in the Datapoint give instant feedback about the hardware performance and control actions. For instance, the output lights indicate which connected solenoid valves are actuated, providing real time insight.



### Aspirator box

The aspirator box provides iSii compact with a reliable indication of the temperature, CO<sub>2</sub> level and relative humidity in the greenhouse. The high quality plastic housing protects the sensors from water, dust and direct solar radiation.

*"Our roses have stronger, thicker and healthier stems and leaves. This computer has given us the control that was unachievable before."*

Diego Negrete, Star Roses [Ecuador]

# Always in control

The intuitive and responsive user interface of iSii compact is designed to provide users easy access. Any device with an internet browser can be used to operate iSii compact via your local network. So you can set up your irrigation via the pc in the office and check its progress on your smartphone from outside the company. With these options iSii compact provides freedom to work from any preferred location.

### Access to real-time data, at any time

Via local graphs all cultivation data is automatically stored for a short period of time. Via online platform LetsGrow.com, real-time cultivation data from the iSii compact can be stored. At LetsGrow.com all five minute data is stored for two years, day and night values for four years. The cultivation data can be exported to different spread sheet programs for calculations and data comparison. LetsGrow.com is available via an annual subscription.

### Alarms for security

If the measurements surpass the desired climate or irrigation values with a set deviation, e.g pH and EC, an alarm is triggered. The alarm output can be used to activate a siren and/or dial out system. The alarm text can also be sent to your smartphone when using the Pushover notification App. Alarm notifications allow you to quickly intervene and improve crop safety. This provides you certainty about your cultivation at all times.

## Key features

- ✓ Savings on water, fertilizers and energy
- ✓ One computer for climate and irrigation control
- ✓ Suitable for greenhouses & outdoor cultivation
- ✓ Affordable advanced technology
- ✓ Operation from any device
- ✓ User-friendly set-up
- ✓ High quality industrial components
- ✓ Online data storage available
- ✓ Expendable modular software & hardware
- ✓ Alarm notification on your device
- ✓ Available in 18 languages



## Our references

Many growers worldwide use the iSii compact to efficiently control their irrigation and climate equipment. For example, these include:

### Vegetable & fruit productions

- Rwanda Best (RW)
- Agroindustrial JPM, SRL (DO)
- Vila S.A. (FR)
- Agroindustrias San Isidro S.A. (GT)
- Agrileg de Tehuacán S.P.R. de R.L. (MX)

### Flower productions

- Nanmei Cheng (CH)
- Rucheng (CH)
- Star Roses (EC)
- Dow AgroSciences (USA)
- Stan Ouding Bedding Plants Inc. (USA)



## Adequate service & support

Hoogendoorn has several offices worldwide and a strong partner network. So, we can provide you with our technology, knowledge and service wherever you are located. In addition, we provide a reliable local service, a 24/7 helpdesk, training and update service.

### Local service

Hoogendoorn provides local service for growers worldwide. We work closely with our certified partners who are aware of your climate and business conditions. They can provide local technicians for commissioning, configuration and maintenance of Hoogendoorn systems. Our partners keep spare parts in stock to provide swift service.

### 24/7 helpdesk

In addition to our local service we also provide remote technical support. Our telephone helpdesk is available day and night. If necessary our helpdesk specialist can access your computer system online in order to help you optimize settings or solve any possible issue.

### Flexible training

Hoogendoorn provides training on climate control, water management and plant growth. For this, we work closely with renowned universities and research centres. Training is provided in our offices or at your company, either in groups or on an individual basis. In addition, we also provide online training via webinars. These interactive webinars are tailored to your wishes and can be followed from your own workplace so as not to waste travel time.

### Update service

After connecting your system to the internet it is possible to update your system with new features. You will be notified when new updates become available.

# Worldwide innovator in horticultural automation

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