

Grow your ambitions with the new Grodan GroSens Suite



Grodan **GroSens Suite**

Insights that let you get in control of your irrigation strategy.

Grodan GroSens Suite provides rootzone information that puts you in the driver's seat. A ready-to-use solution that offers immediate insights, anytime, anywhere. It is a seamless integration of sensors, software, and support that gives you easy access to rootzone data and 24/7 online support.

Designed around our advanced tone wool products, the GroSens Suite unlocks the power of Precision Growing. Helping you to future-proof your business.





GroSens: meet the redesigned GroSens device

The new GroSens suite provides more accuracy, highly reliable and precise rootzone temperatures, WC and EC measurements. This results in better growing insights.

Features

Improved design and performance

Plug & play setup

LoRa technology

Real-time data

Accurate & reliable rootzone data

Climate sensors

More accurate measurements

Benefits

The new sensors have an improved, compact and waterproof product design, with an integrated antenna. Thanks to the distinctive blue color, spotting it in the facility is easier.

The ease of use and seamless connectivity of the new device make it incredibly user-friendly. You can connect it to a network without requiring any additional configuration or installation. This not only saves setup time for you but also reduces the likelihood of errors.

LoRa has become the de facto wireless platform for IoT, connecting sensors to the cloud and enabling real-time communication of data. Our new devices can transmit data over longer distances, providing an extended communication range for enhanced connectivity.

Enhance the performance and efficiency of your IoT applications with real-time data acquisition provided. This enables seamless data analysis and visualization for improved functionality.

With our data models designed around your substrates, and combined with the patented 6 pin layout, GroSens offers you accurate and consistent rootzone insights, measuring Water Content (WC), Electrical Conductivity (EC), and rootzone temperature.

We offer two climate sensor models. They both measure relative humidity, internal temperature, and VPD*. The second model also includes CO2 measurement. *VPD is based on a calculation from the relative humidity and internal temperature.

You can use the sensor to measure Water Content in the range between 0-100%, Electrical Conductivity in the range between 0-20 mS/cm, and Temperature in the range between 0-50 degrees Celsius or 32-122 degrees Fahrenheit.



e-Gro: meet the redesigned GroSens device

This new version of e-Gro is a web-based application available on all devices: mobile, tablet or desktop.

Features	Benefits
Seamless cross-platform experience	With our Progressive Web Application, you experience a seamless and responsive cross-platform interface, benefit from fast loading speeds, and enjoy enhanced user engagement.
30 - 100 day view	In the Conditions module, you can use the 30 Day view port to access the historical data you need for deriving valuable insights. Additionally, you have the option to download and analyze data in Excel, allowing you to access information for up to 100 days.
Fallback connection	In the event of internet interruption, our backup LTE solution ensures you retain access to valuable data via the e-Gro native mobile app, preventing any potential data loss. Moreover, LTE guarantees the continuous data stream to the e-Gro cloud.
Improved database structure	With the new database, accessing the data is faster and more reliable. You can be assured that we have a reliable backend supporting your valuable data.
Sensor management	You can assign and name sensors according to your needs using a single platform, providing convenient management and viewing of sensor data.
User access and management	Effortlessly manage and accommodate up to 99 user accounts with the added assurance of enhanced security through role-based permissions. This ensures that your users receive precisely the access they need.
Facility & sensor management	You have the flexibility to set up your facilities and sections to match your growing operations.
Frequent platform releases a year	You can be assured that the platform is continuously maintained and updated to the latest security and technology standards.
Your data is safe	Your data in e-Gro is protected by state-of-the-art encryption and security protocols. Everything on e-Gro is processed in accordance with all local laws and regulations.

Service Promise

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In addition to the GroSens and e-Gro product benefits, we offer growers extensive support and service:

Uptime guarantee

We understand the criticality of your business operations and strive to maintain a robust infrastructure to ensure maximum uptime. Therefore, we ensure that e-Gro will be available for a significant percentage of the time, typically not less than 99.9% uptime. This indicates that you can confidently rely on our service to support your business operations without significant interruptions.

5 years warranty

You can trust the quality of our hardware, and for that reason, we provide a 5 years standard warranty coverage. In the event of any defect, the affected hardware will be replaced at no cost during the extended warranty period.

Pro-active system monitoring

We will actively monitor the network connection of your components (smartboxes, bridges, gateways, and sensors) within your hardware infrastructure, which allows us to address potential technical issues before you are even aware, thereby minimizing the impact on your operations.

Quick support & self-help

You can rely on our dedicated support team for prompt assistance and troubleshooting, following our Service Level Agreement (SLA). Furthermore, we provide you with 24/7 access to our comprehensive online support and knowledge center, empowering you with the information needed for a seamless experience with our services.

Designed to grow

Grodan is the global leader in supplying soilless rootzone management solutions for Controlled Environment Agriculture. These solutions are applied to the cultivation of vegetables and flowers, such as tomatoes, cucumbers, sweet peppers, egg plants, roses and gerberas.

Research shows that high-tech greenhouses have the biggest positive impact on the UN Sustainable Development Goals compared to all other growing systems and score highest within water and nutrient efficiency. The use of stone wool Precision Growing media in a greenhouse can produce higher yields with significantly less resources than other cultivation methods. The key is precision.

The essence of Precision Growing is use of less soil, less water, less fertiliser, and gaining a higher yield. Combined with stone wool growing media, Grodan enables Precision Growing by offering a MultiSensor system, a software platform and personal advice to help maximise crop potential with data-driven cultivation.

Grodan's innovative growing media solutions facilitate the sustainable production of healthy, safe, and fresh food produce. Furthermore, it creates the possibility to use biocontrol and reduce, or even eliminate, the use and risk of chemical plant protection products.

Sustainability plays a prominent role within Grodan, from the manufacture of stone wool substrates to end-of-life solutions. Grodan was founded in 1969 and is active in more than seventy countries worldwide. The head office is located in Roermond, the Netherlands.

ROCKWOOL BV / Grodan

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Ready to experience the Grodan GroSens Suite?

Request a demo to see what it can do for you.

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