

Sapflow sensor



PHYTOSTEM

Sapflow sensor

This sensor measures the amount of sap flowing through the plant at the time of measurement. Through these measurements, the activity of the plant can be mapped, and an insight is created into the plant evaporation and which climate influences have an effect on plant activity.

Diameter sensor

This sensor measures the variation in vascular tissue and the thickness of the stem in micrometers. This gives an indication of the vegetative/generative state of the plant, the recovery of the plant and therefore the distribution of sugars. In addition, stress can be clearly visualized.

“For the first time we can communicate 1:1 with the plant.”

BASE STATION

Our base stations receive the data from the sensors and send it in real-time to our servers. Our algorithms make the data interpretable and present it readable on all your devices.

PHYTOCLIPS

With our new leaf thickness sensor and micro-stem diameter sensor we can monitor smaller plant species or bigger plants from the moment they are cultivated. These sensors are suitable for leaves between 0 and 2mm and stems between 0 and 6mm.



ONS TEAM

- Wouter De Bruycker - CEO
- Olivier Begerem - Sales Manager
- Maxime Dedecker - Service Manager
- Nicolas De Vriendt - Service Manager
- Cyrille Bizien - Responsable France



COMMUNICATE WITH YOUR PLANT

“The exact moment of our split fruit, we can detect with 2Grow's sensors.”

“Using the sensors, we've adjusted our irrigation, significantly reducing blossom end rot in our crop.”

“By following the diameter measurements, I can see what my plants are going to do before I can observe it physiologically.”



(281) 564-5100
1-800-896-7108



SENSORS



INTEGRATION



TAILORED ADVICE

Email: admin@dynamax.com
Web: www.dynamax.com

In collaboration with Ghent University and Phyto-IT.



Dynamax



OBJECTIVE

2Grow specializes in sensor technology that measures the plant directly.

In contrast to the majority of sensors, we take a different approach to measuring plants.

Today the greenhouse is already full of sensors and measurements, but these are often indirect measurements. Too many conclusions and actions are still being taken based on assumptions and previous experiences, we want to break this way of thinking.

The plant has so much to tell us, but we are not listening enough. By offering a non-invasive, objective and continuous measurement of the plant itself, we bring a breath of fresh air into horticulture in which we let the plant tell us what it needs.

After all, it is only by measuring that we will know.

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diameter sensor



With our technology we want to show how all your actions have an effect on the plant in real time and how plants really reacts to this.

During the day, growers raise the temperature, give water,... All this has a certain effect on the plant when it happens. Unfortunately, our own eyes are not able to observe the effect of all these actions separately in real time.

However, 2Grow can detect them, but more importantly, we can also visualise and make them interpretable. Suitable for herbaceous (tomato, cucumber, paprika,...) or woody (grape plant,...) crops.

Can be used indoors as well as outdoors.



SERVICES



SENSORS

The plant sensors measure the response of the plant to changes in climate (irrigation, lighting, temperature changes, etc.) or to manipulations (pruning, harvesting, etc.). The plant sensors can remain installed in the same place on the plant throughout the growing season.



TARGETED CONSULTANCY

Using these measurements, we offer targeted advice and consultancy based on the grower's needs and challenges, and are always available to answer questions and provide training. On a weekly basis, your data is also reviewed by one of our employees on which feedback can follow.



INTEGRATION IN YOUR CLIMATE COMPUTER

To make the interpretation of your data even easier and more accessible, our graphs can be displayed in your climate computer. You can opt for a direct integration using our Phytoli unit or for an integration via our partners 30Mhz or Let's Grow.



PHYTOSENSE

In addition to data storage and processing, the Phytosense cloud service also performs real-time sapflow and diameter variation calculations. In addition, it offers various variation statistics with error correction of possible disturbances.