



Precise and reliable measurements for perfect growing conditions

Priva Sensors

For an optimal crop development, temperature, light, humidity and CO₂ concentration must be in perfect balance. This requires precise measurement and control. Priva supplies a wide range of sensors: from weather sensors to climate sensors and from PAR sensors to water sensors. The values that are measured by the sensors, can be integrated into your Priva process computer. This way, you can provide the ideal growing conditions for your crop.



➤ **Get a grip on the cultivation process**

Quick and accurate measurements for optimal process control

> **Insight into crop growth factors**

By mapping the values of temperature, light, air humidity and CO2 concentration per compartment

> **Achieve a higher quality and quantity of your crop**

By measuring and controlling light and CO2 for an optimal photosynthesis process

> **Automatically check and control the EC and pH levels in your water**

By using dual EC and pH sensors and a water flow sensor

Weather sensors

The measurement of wind speed and direction, precipitation, temperature, (outside) air humidity and the amount of sunlight is of great importance to achieve a stable climate in the greenhouse. Based on data from our Precipitation sensor, the air vents are controlled automatically to maintain an optimal indoor climate. With the Outdoor RV-sensor you can measure the relative air humidity outside the greenhouse. This is important because it can differ greatly with the humidity in the greenhouse. Our Irradiation sensors measure the outward heat emission of the greenhouse. To prevent heat loss from the greenhouse, the screen closes sooner when the sky is clear thanks to the sensor. This prevents damage to your crop and saves energy. With our Weather station, all the measured data is sent to your Priva process computer. The computer takes this data into account and based on those calculations, the processes are being controlled automatically.



Climate sensors

The traditional Priva measuring box (T + RH) measures the relative air humidity and the temperature per compartment per greenhouse. The E-measuring box goes one step further. It is a highly advanced instrument for electronically measuring the temperature, relative air humidity and - in a separate module - the CO₂ content electronically. The Priva E-Measuring box, with the CO₂ module if desired, is intended for quick, accurate measurements.

CO₂ is of vital importance to the growth of plants. This makes monitoring the CO₂ indispensable in a greenhouse. The Priva CO₂ Monitor is a digital meter that measures and monitors the carbon dioxide concentration within the greenhouse. The CO₂ Monitor uses air that is drawn in for measurement. With a CO₂ selector this can be done for multiple locations.



PAR sensor

Photosynthesis is the starting point of every crop. With the PAR sensor (photosynthetic active radiation), you can measure light to create the right balance in your photosynthesis process. This results in a higher quality and quantity of your crop.

With the Priva PAR Sensor, the specific part of the light spectrum that activates photosynthesis can be measured 24/7. Based on the light quantity from the PAR sensor, your process computer calculates how you can use shading curtains, CO₂ and the growing light for the best result.

With the Priva Plant Temperature Camera you can gain precise insight into the temperature of the crop. This temperature says something about the transpiration of your crop and the cell-division speed. This allows you to make even better adjustments in the automation processes and achieve the highest yield.

Water sensors

The correct EC and pH levels are essential factors for the healthy growth of your crop. Together with the Priva process computer, you can automatically check and control the EC and pH levels using dual EC and pH sensors. Together with a water flow sensor, the unique Priva pre-calculation of the desired EC and pH dosing rates is being determined. Then, based on the values from those dual EC and pH sensors, the process computer simultaneously corrects for deviations from your desired recipe target levels. For an optimal water management in, for example, your water storage tanks and fertilizer stock tanks, you can also choose for a Pressure sensor.

When growing in substrate, you can accurately measure both the exact quantity and the EC value of the drain water by the Priva drain sensor. In combination with the Priva Groscale (weighing scale), the water dose is set automatically in line with the growing conditions, the condition of the plant, and the

condition of the substrate. This is done based on the plant's requirements.



To achieve the ideal climate, you must have the correct sensors and carry out the right measurements. Priva helps us to control our greenhouse in the best possible way based on reliable measurements. That saves time.

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Owner Mans Flowers - Marinus Mans

25 tips to improve your bottom line

This white paper will inspire you to take various measures that will make a positive contribution to your bottom line



Total integration

A seamless integration of our sensors into the Priva process computer



Flexible and future proof

Choose the sensors which suits your business best



Minimum maintenance

Designed to require minimum maintenance



Solid and durable

Super robust design: water, dust and fall-proof

Want to get started with accurate measurements?

Give us a call!

Want to know more about climate control?

We are happy to help!



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