

Know what's best for
your plants at a glance

Firefly Series



Fact-based decisions: all the information you need at a glance

Know what is best for your plants to improve quality and optimize costs with real time insights into the conditions over your entire growing area. This will help you decide what to do to improve growing conditions and therefore yield and quality. The measured data will help you to reduce the use of water, energy, crop protection chemicals and nutrients and therefore reduce your costs.

The Quantified Firefly is a wireless distributed climate sensor that measures air temperature, relative air humidity, barometric pressure and radiation (PAR) coupled with GPS-coordinates. This opens up the route to dynamic heatmaps. Its robust design, with safely embedded electronics, enables application in the most demanding environments. Specific external sensors can be connected through the IP67 connector. See our product catalogue for the full product range of external sensors and accessories.



Scientific accuracy, real time, wireless and rechargeable

For fact-based decisions you need reliable and accurate data. Our measurement technologies are designed for accuracy and are vigorously tested and validated. With a convenient plug-and-play system, your sensor data is available within minutes after unboxing your purchase. With a rechargeable battery, the Firefly is also the sustainable choice. The Firefly can be easily mounted on a rod, cable or wall using our Smart Clip.

Connect to your data platform of choice: insights at a glance

The real time sensor data is instantly uploaded to the internet and immediately available via an API coupling for visualization in your data platform of choice. The Quantified Insight platform provides direct insights through:

- Heatmaps of your growing area based on sensor GPS-coordinates
- Graphs
- Direct downloads in Excel or CSV formats

Next to the raw data the Insight platform also provides real time algorithms such as:

- Vapour Pressure Deficit (VPD)
- Dew Point
- Daily / Yearly Light Integral
- Disease Pressure
- Greenhouse climate uniformity
- PAR light loss over covers
- Frost alarm (rH corrected)
- Plant growing models
- Potato Guard
- Custom made algorithms

Let the system do the monitoring for you and get messages and alarms when parameters or algorithms run outside pre-set limits. Our remote actuation option is currently being tested. This way you (or the system) can remotely control screens, pumps, de-humidifiers or any electrical appliance automated or with the touch of a button.



Welcome to Quantified

Quantified Sensor Technology was started by nano physicists with the goal of providing accurate and cheap sensor solutions for the Agri- and Horticultural sector. Our ambition is to radically improve the sustainability of the sector with our innovative solutions. Our approach leads to improved produce quality and -yield whilst minimizing the use of water, energy, nutrients and crop protection chemicals. The sector will benefit both from reduced costs and more sustainable performance.

Our office and laboratory are located in the city of Leiden at the heart of the Dutch “Westland” greenhouse region. Our solutions are tested vigorously with customers in high tech greenhouse environments.

We are always interested in your feedback, ideas and questions!
Feel free to contact us at info@quantified.eu

