



Biome
DELTA

QUANTIFIED
sensor technology

Smart Monitoring for Reduced Risk and Improved Yields

Wireless climate and fertigation insights
trusted by growers worldwide.



Growing has never been more complex.

Every grower knows the pressure of keeping crops healthy and thriving against evolving challenges.



Scarce Labor

Skilled labor is your scarcest resource. Automate routine inspections to maintain rigorous oversight without overextending your team.



Costly Resources

Rising resource costs demand absolute efficiency. Optimize every input—from water to energy—to reduce waste without compromising crop quality.



Prevalent Risks

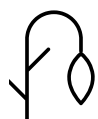
Unseen variables constantly threaten yield. Proactive mitigation is essential to protecting your bottom line.



Changing Needs

Plant needs are complex; data is not. Unify diverse metrics into clear indicators for better informed decision making.

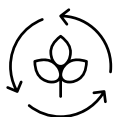
How Quantified Manages These Challenges



Automated, quantifiable metrics on plant vitality that reveal hidden stress factors.



Insight into climate uniformity and microclimate conditions.



Precise root-zone monitoring to align nutrient delivery with plant uptake



Remote, 24/7 crop monitoring with targeted, data-driven alerts.

Innovation With Growers in Mind

Substrate & Moisture Monitoring

The Poseidon sensor eliminates root-zone guesswork by continuously tracking volumetric water content (VWC), electrical conductivity, and temperature directly in the slab or block. This wireless precision allows you to steer crop development based on actual nutrient uptake rates, ensuring water and inputs align exactly with plant demand rather than static estimates.



Drain & Dripper Control

The Smart Gutter validates irrigation strategy by measuring drain volumes and EC in real-time. It confirms that fertigation plans were executed correctly—detecting clogged drippers or valve failures immediately—and ensures that drain percentages remain optimal to prevent invisible salt accumulation and root stress.



Microclimate and Plant Health

FireFly nodes and Infrared Thermometers reveal the "invisible" climate reality that standard sensors miss. By monitoring leaf temperature and humidity at the plant level, the system detects early stress signals (like stomatal closure) and identifies microclimate variances, allowing you to proactively prevent fungal outbreaks and yield loss, while reacting to plant stress in real time.



Unified Data, Instant Access.

Trusted by Growers Across Three Continents

Quantified integrates with major platforms such as Priva, LetsGrow.com, and Source.ag, allowing easy integration without managing multiple dashboards.

Quality Tomato Morocco

Greenhouse Tomatoes | MA

Challenge: With water becoming scarce and costly, maintaining precise control over drain volumes was critical yet difficult to achieve manually.

Solution: Automated drain and EC sensors now optimize drain percentages in real-time. Continuous monitoring integrated into their data platform ensures precision fertigation with minimized waste.

Bejo Seeds

Seed Production | 5 Countries

Challenge: Defining optimal germination conditions by linking complex climate variations directly to seed quality outcomes.

Solution: Sensors track conditions linked to specific seed batches, providing the data needed to replicate optimal germination environments.

Bosch Growers

Strawberries & Bell Peppers | US, NL

Challenge: Maintaining consistent fertigation strategies across various greenhouse zones was difficult without unified data visibility.

Solution: Wireless substrate sensors provide centralized oversight, enabling uniform control and consistent crop strategies across multiple bays.

The Valley

Greenhouse Tomatoes | NL

Challenge: Severe labor shortages made rigorous daily and weekend control rounds increasingly difficult to sustain.

Solution: Real-time sensor data reduced the number of manual walkthroughs, decreasing labor dependency without increasing risk.