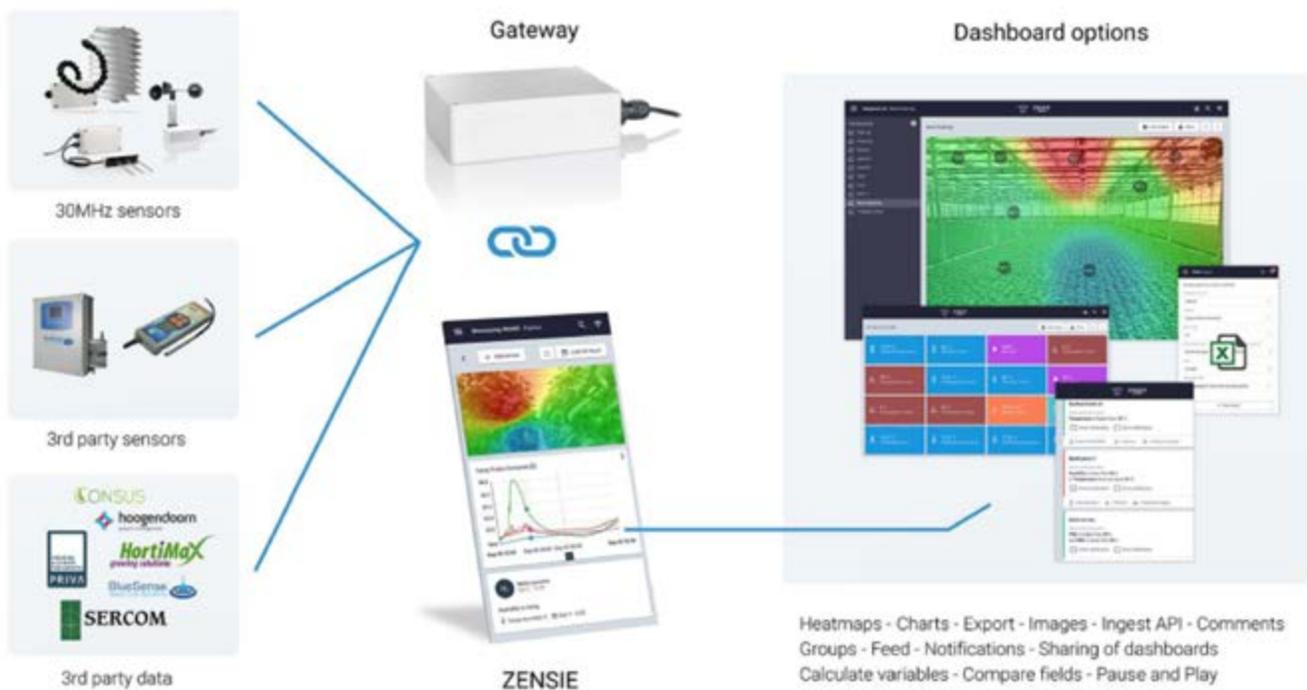


# 30MHz & HORT AMERICAS

## JOIN FORCES TO BRING SMART SENSING TO NORTH AMERICAN GROWERS

30MHz provides agribusinesses with everything they need to start monitoring their crops and growing environment accurately and in real-time, with just minutes of setup. Make the best decisions for your crops with interactive heatmaps, charts, custom calculations, alerts and shareable widgets keeping track of all your metrics in one central, easy to use platform that's accessible on any device. Use real-time crop-level data to drive yields, reduce losses, optimize irrigation, improve storage, prevent disease risk, and reduce energy.



## The data platform for your crops: 30MHZ ZENSIE THE DASHBOARD

An easy to use and customizable dashboard that you can access on any device with real time alerts and deep analytics. Accessible on any device, ZENSIE starts generating powerful insights and visualizations from wireless sensors moments after setup.

- Customize your branding: Upload logos, change colors, adjust the look and feel of your dashboards and groups and create pre-set themes for your team
- Set up notes, notifications add pictures or ask question to colleagues in a platform where data is easily shared and exported.
- Gauge your sensor values
- Visualize and compare your data in charts
- Use ZENSIE to do calculations that deliver new metrics
- Generate live-animated, color-coded heat maps
- And more...

## 30MHZ GATEWAY



At the heart of the Smart Sensing Toolkit is the Gateway. The 30MHz Gateway ties the internet to your private mesh network. Waterproof and durable, a single Gateway can mesh up to 4,000 sensors, even in

the harshest industrial conditions.

## CO<sub>2</sub> SENSOR



Monitor carbon dioxide levels in your greenhouse, vertical farm or storage facility. Stay up to date on your crops' needs by monitoring CO<sub>2</sub> levels in real-time with this wireless carbon dioxide sensor. There are three variations of the sensor available. Each one measures a different range of ppm: 0-2.000 / 0-5.000 / 0-10.000 ppm. Deploy in moments without coding or technical assistance, and start capturing data in the ZENSIE dashboard. Generate graphs, visualizations, heatmaps and custom alerts straight to your mobile, tablet or computer.

## TEMPERATURE HUMIDITY SENSOR



Track greenhouse and storage conditions in real-time. Set your parameters in the ZENSIE dashboard, and get alerts as soon as temperature or humidity rises or falls beyond your defined thresholds.

The temperature humidity sensor is designed to provide real-time granular data on environmental conditions from any location, whether it's the furthest corner of a greenhouse or a sealed cold storage container. Set your parameters in the ZENSIE dashboard, and get alerts as soon as temperature or humidity rises or falls beyond your defined thresholds.

The temperature humidity sensor is wireless and watertight, for reliable measurements in any environment. Use this sensor alongside the pointed temperature sensor to determine the dewpoint of individual plants.

## VENTED TEMPERATURE HUMIDITY SENSOR



Set your parameters in the ZENSIE dashboard, and get alerts as soon as temperature or humidity rises or falls beyond your defined thresholds.

Developed for the needs of commercial farmers, the temperature humidity sensor is designed to provide real-time granular data on environmental conditions from any location, whether it's the furthest corner of a greenhouse or a field full of crops. Set your parameters in the ZENSIE dashboard, and get alerts as soon as temperature or humidity rises or falls beyond your defined thresholds.

## WIND DIRECTION SENSOR



A durable, wireless sensor designed for agricultural applications.

Collect real-time data on air flow in your greenhouse, storage units or workplace. Have more control over the airflow in your greenhouse, storage units or workplace with the wind direction sensor. Use it alongside the 30MHz airflow sensor

to determine how variables such as CO<sub>2</sub>, temperature and humidity affect wind direction. The sensor is also suitable for outdoor use.

## WIND SPEED SENSOR



Measures speeds up to 55 m/s

A durable, wireless sensor designed for agricultural applications.

Monitor weather conditions at different spots in the field.

This sensor measures wind speeds up to 55 m/s and is therefore also suitable for outdoor measurement. Gain insights

on weather conditions in fields and lower tech greenhouses, or monitor areas where significant airstreams affect growth.

## AIRFLOW SENSOR (0-2 M/S)



A durable, wireless sensor designed for agricultural applications.

Capture data on airflow at 0-2 meters per second in real-time.

Developed for the needs of commercial farmers, this rugged, watertight and

easy to mount anemometer captures sensory data on subtle changes in airflow at 0-2 meters per second. Use real-time airspeed data captured in the ZENSIE dashboard to monitor storage, drying and processing, as well as manufacturing conditions.

## AIRFLOW SENSOR (0-20 M/S)



Capture data on airflow at 0-20 meters per second in real-time.

A durable, wireless sensor designed for agricultural applications

Developed for the needs of commercial

farmers, this rugged, watertight and easy to mount anemometer captures sensory data on rapid airflow at 0-20 meters per second. Use real-time airspeed data captured in the ZENSIE dashboard to optimize outdoor irrigation, bulb drying and processing conditions.

## ARABLE SOIL MOISTURE SENSOR



Custom alerts can provide insights on which crops are in need of irrigation, and which are in need of drainage.

This soil sensor determines volumetric water content (VWC) by measuring the dielectric constant of the medium using

capacitance and frequency domain technology to provide accurate measurements of all soils and soilless medias with a wide range of salinities.

## POTTED SOIL MOISTURE SENSOR



Measure volumetric water content in soils and soilless medias with a range of salinities.

This wireless soil moisture sensor is built to monitor volumetric water

content (VWC) for an accurate measurement of all soils and soilless medias with a wide range of salinities. Using real-time data from soil sensors, farmers can adjust and tailor a granular approach to irrigation and nutrient delivery. Custom alerts can provide insights on which crops are in need of irrigation, and which are in need of drainage to prevent the damaging effects of overwatering including standing water compromising root development, overaccumulation of salts, root rot, fungus and mildew.

## POINTED TEMPERATURE SENSOR



Measure the object temperature of fruits, vegetables or leaves without contact.

Developed with Dutch commercial pepper farmers to capture the skin temperature of individual plants, the pointed infrared temperature sensor is built to flexibly position around objects

of any shape and measure surface temperature without contact. Benchmark and compare temperatures across greenhouse sections, or contrast granular metrics on a single plant. Set your parameters in the ZENSIE dashboard, and get alerts as soon as temperature rises or falls beyond your defined thresholds.

The pointed temperature sensor is wireless and portable, giving you the freedom to measure different plants and locations, depending on your needs.

## PHOTOSYNTHETICALLY ACTIVE RADIATION SENSOR



Monitor HPS, LED or natural light strength across agricultural environments.

This rugged sun calibration quantum sensor was designed to measure the strength of artificial or natural sunlight.

Use the PAR to measure PPF (Photosynthetic Photon Flux Density) in agricultural environments including greenhouses, growth chambers, or outdoor plant canopy environments.

## PT 100, 500, 1000



This sensor is designed for an accurate measurement of the temperature of raw materials, liquids or crops in storage. It is especially applicable in places where its necessary to monitor the center, such as a pile of crops, reservoirs or any

similar situation.

Capture data on temperature from crops in storage, liquids or raw materials.

## SUBSTRATE MOISTURE SENSOR



Measure the water content, electrical conductivity, and temperature of many types of growing media, primarily in greenhouse applications.

This sensor was designed to measure the water content, electrical conductivity, and temperature of many types of growing media, primarily in greenhouse applications where the slim, stainless steel needles could be inserted easily into a variety of substrates.

## POINTED MICROCLIMATE SENSOR



Capture the granular microclimate: object temperature, air temperature, humidity, dewpoint, VPD, humidity deficit and relative humidity.

This sensor uses object temperature and temperature humidity measurements to continuously capture microclimate at close range. Use data from the sensor to better

determine heating needs, cutting unnecessary energy expenditures and lowering the risk of plant fungus and disease.

## PEOPLE COUNTER



This sensor is designed to monitor people flow in a space with up to 98% accuracy, even in crowded spaces.

Cover multiple counting points with a single sensor, separate counting results for adults and children, and

prevent false counts by detecting non-human objects Track up to 8 individual zones, monitoring fill level, dwell time and wait time per zone.

This sensor combines two optical lenses to determine whether people or objects are moving within the selected field.

## PASSIVE INFRARED SENSOR



Detect presence and occupancy of objects generating heat.

A durable, wireless sensor designed for agricultural applications

The Passive Infrared (PIR) sensor measures infrared light emitted from

objects that generate heat, and therefore infrared radiation.

Use this sensor to detect occupancy and presence in facilities, or detect the presence of animals in pens or mice in mouse traps.

## OBJECT COUNTER



This sensor detects and counts transparent and reflective objects through an optical lens. Its visible, high power LED light compensates for dirt.

Gather real-time data on conveyor belt usage in your agribusiness.

Developed with Dutch seed company Pop Vriend to monitor and optimise conveyor belt usage, this photoelectric sensor counts passing items in real-time at up to a meter distance.

This sensor can detect and count transparent and reflective objects, and its visible, high power LED light compensates for dirt and makes alignment easy.