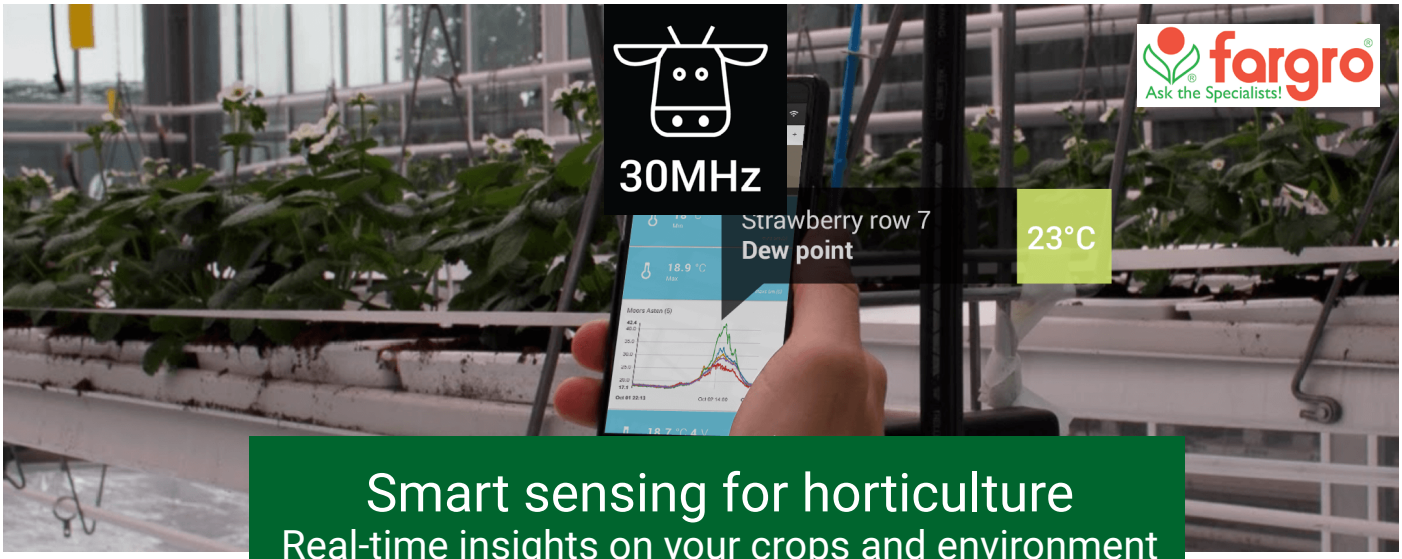

Smart sensing for horticulture

Real-time insights on your crops and environment

FAQ's

What technology does 30MHz provide?
30MHz provides all the elements needed to set up a wireless sensor network: a choice of sensors developed for horticultural applications, a scalable and reliable private mesh network, and an intuitive platform for alerts and analytics, available on any device.

What metrics can I capture?
30MHz provides sensors enabling customers to monitor metrics including wind speed, wind direction, object surface temperature, temperature and humidity, CO2, soil moisture and EC across substrates, light intensity, airflow, asset utilisation, vapour pressure deficit and dewpoint.

What's the average battery life of a sensor?
This varies slightly per sensor, and frequency of measurement, but sensor battery life tends to last about two years.

Mesh network?
To ensure the highest level of stability, customers' sensors deploy to a private mesh network. In a mesh topography, if one sensor loses connectivity, the rest compensate. This guarantees the network is immune to interruptions.

Can connectivity be ensured in my context?
The 30MHz architecture is designed to support sensors into the hundreds of thousands, in growing contexts. Repeaters can help strengthen the network to compensate for thick walls, or industrial materials. That being said, the gateway does rely on internet and power, so if one or both are inaccessible, information won't get through. It's very rare that this challenge ever presents itself in the case of an ethernet gateway, but it is something to be aware of with wifi or sim card configured gateways. To compensate for this, we've added the uptime configuration feature in ZENSIE. This way users can decide for themselves to what extent they rely on this data.

How long does deployment take?
All sensors are delivered pre-configured and ready to deploy without technical expertise. Customers need to be near a power source and ethernet outlet to connect their gateway(s) and connect to the 30MHz website to log in to their dashboard. Once the gateway is connected, sensors will appear online in moments, ready to be placed wherever they will be monitoring.

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FAQ's

Can sensors handle extreme conditions?
All 30MHz sensors are rugged and built for horticultural contexts: (high levels of humidity <ip 65 and higher>, broad range of temperatures, extreme light intensities).
How many gateways do I need?
In general you need one gateway per location. It can connect up to 4.000 individual sensors.

What is ZENSIE?
ZENSIE the dashboard that combines all your sensor data in one insightful place. The platform makes it quick and easy to manage and scale you sensor network across locations, from any device, with zero code. Start generating insights through graphs, visualizations like heatmaps and real-time notifications with a customizable dashboard that takes moments to set up, and deploys new sensors in minutes. Get a complete overview of your greenhouse, storage facilities, fields or processing plants by exploring and comparing metrics from sensors across the globe. Make the most of your data across the value chain by easily sharing with stakeholders through managed permissions and CSV export.

Do I need to download ZENSIE?
No, ZENSIE is a browser based tool, which can be accessed through any kind of device like a pc, laptop, tablet or smartphone. We recommend using Google Chrome, Mozilla Firefox or Apple Safari for the best user experience.

Can the whole team use ZENSIE?
Customers can add new users without limit and adjust permissions within their settings. Dashboards can also be selectively shared with third parties, enabling non-members to follow changing conditions in real time without altering dashboards.

What if I don't want to use all sensors at all times?
Customers can pause and restart sensors in moments within the ZENSIE dashboard, and can adjust frequency of measurement at any time.

How long is my data stored for?
There is no time limit on data storage.

Who owns my data?
Customers are the sole proprietors of their data, and can download it easily in .CSV format or connect to third party analytic applications.

I work with a climate computer, how can smart sensing help me?
Sensors can provide granular insights and checks on macro-level climate computer monitoring. Thanks to a recent partnership with Klimlink, 30MHz can ingest data from any climate computer and display it alongside sensor insights. The 30MHz API makes it possible to bring together various data sources within ZENSIE.

What does a sensor cost?
Costs are build up out of two components: hardware costs and data usage costs.
The hardware prices vary per sensor. The data usage costs also vary per sensor, with a maximum price of £4,- per month and a minimum of £1,- per month. The amount of costs depend on two things: the data frequency (i.e. once a minute, once every five minutes, once every fifteen minutes etc.) and if the sensors are live or paused due to seasonal circumstances.

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