

LIKE FINDING A HIPPO IN A HAYSTACK



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Orbis Mesh Technologies Inc., www.orbismesh.com utilizes RF Mesh networks to eliminate costly cabling of all types, provide a redundant and easy to configure mesh network that enables telemetry and data to be relayed back to the control center and do so using commercially available unlicensed spectrum technology.

All of which means that it is now possible to smartly and sustainably manage your warehouse, job site, or food storage inventory using the **Internet of Things (IoT)** in a way that was not efficient, effective or cost affordable before.

We expect that the logistical applications of the Orbis Wireless Sensor will have **Sustainable Development Goal (SDG)** <http://www.undp.org/content/undp/en/home/sustainable-development-goals.html> alignment, and significant social and environmental impact.

RF Mesh

With our mesh network, we are using Bluetooth RF technology to create a network where devices receive and relay (in effect re-transmit) incoming data. The effect is that nodes work in conjunction with each other.

Like a ripple on a pond, messages propagate through the mesh network, in a secure, encrypted format, with each node relaying the data of its neighbours. **The result is a vast robust, self-healing network of miniature sensors and controllers without any single point of failure.**

Why Orbis For Your Logistical Systems

- 1) **Wireless monitoring yields precision environmental conditions of products**
- 2) **Mesh sensors are a lower cost than cables and connect to all existing monitoring equipment with no airtime charges.**
- 4) **Remotely control and monitor all equipment autonomously or manually.**
- 4) **Fully scalable for complete coverage of storage facility.**
- 5) **High reliability. Low maintenance.**



The Wireless Node

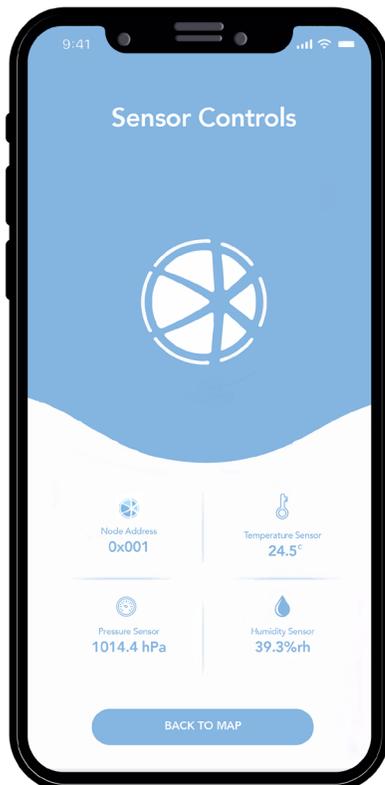
The Orbis Wireless Node / Sensor is a durable, light-weight, waterproof, self-contained unit. Capable of operating at either 915 MHz or 2.4 GHz it has a typical range of 40-50 meters unobstructed outdoors @ 2.4 GHz and 1 km at 915 MHz.

The unit is currently battery powered and can be mounted onto equipment, physical inventory or pallets, connecting it to existing systems. This will allow for the instantaneous exchange of information between products and monitoring systems.

The first release is equipped with built in temperature, humidity and pressure sensors. The sensors have the following operational range:

Humidity: 0 – 100%
Pressure: 300 – 1100 hPa
Temperature: -40 - + 85 C

Future releases will support location tracking, external moisture sensors, as well as light and motion detectors.



The Software Application

Our app provides a comprehensive overview with **detailed readings of each individual sensors** (as shown on the left) so facilities can hone in on various processes such as **environmental changes and equipment monitoring**. **Future releases will include location tracking which will enable loss prevention monitoring/alerts.**

Facility operators can click each Sensor Icon (shown left) on our App to see updated sensor readings continuously every 30 seconds.

In our next release we will provide control signals for automated commands if a sensor detects a treatment system is falling outside of acceptable performance parameters.

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