



**|| Vibes ||** AgriWarehouse

**|| Vibes ||** Span



Connect



Monitor



Control

# || Vibes ||



Bridging Gaps

**SeethaRam Mechatronics Pvt Ltd**

**Bridging Gaps in Technology**

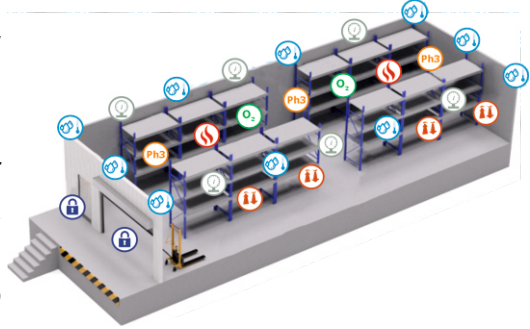


**|| Vibes ||** Agriculture

**|| Vibes ||** Maintenance

# Vibes AgriWarehouse

Agri-Warehouses must be constantly monitored for Ambient Conditions prevailing within the warehouse housing variety of Food grains of varied aging. Monitoring the warehouse involve monitoring the temperature and humidity conditions, proper ventilation and rodent free environs, detection of fumigation intensity, monitoring obnoxious gas levels after fumigation and ensuring safety within the premises. Vibes Agri Warehouse is the monitoring solution for such scenarios. Vibes Warehouse has a host of sensors for Warehouse monitoring and wireless data transmission on IOT platforms. The data can be made available for custom solutions. Talk to us for complete solution.



# Vibes Agriculture

Soil & Ambient Condition Monitoring for Agriculture

Vibes Agriculture initiates the Ground zero data for all solutions that make up the architecture for the Digital Agriculture, providing the dynamic variation in soil characteristics data and the ambient weather condition data at the farming location on a continuous basis throughout the farming cycle.

Vibes Agriculture consists of the Soil probe and the Ambient probe. Multiple ground parameters can be monitored, logged, compared, trended and historic data can be analyzed and used for better control, visualization, and prediction.

The Dashboard software & trending Analytics gives a dynamic preview and overview of the farm land. Soil, Plant & Ambient conditions at the farm can be shared with stakeholders and experts for review, suggestions & growth plant activation / modification.

The monitoring kits can be applied over a variety of soil types, different types of farming, various growth / feed schedule.



# Vibes|| Span Structural Monitoring of Bridges









Structural monitoring involves the process of implementing a damage detection and characterization strategy for engineering structures. Structural health parameters such as corrosion, cracking, strength, tension, location of rebar / delaminations are measured with physical parameters measuring sensors.

Smart sensors with inbuilt power supply, primary sensors and transmitters enable wireless sensor network which helps in remote structural health monitoring.

<b>Vibes Accelerometer</b>	<b>Vibes Tilt</b>	
<b>Vibes Temperature</b>	<b>Vibes Strain</b>	
<b>Vibes Load cell</b>	<b>Vibes Displacement</b>	
		<b>Mini Server with Time Stamp Data Base</b>

# Vibes|| Maintenance

Fortunately, most types of failures on Rotating machines can be predicted by measuring, observing and comparing the pattern of vibrations experienced on the machines on continuous basis. The signature analysis of the typical distorted vibrations as against regular pattern convey the type of emerging fault scenario. (bearing failure, shaft misalignment, loose mounting etc) This helps in Predictive maintenance which is more efficient and cost effective in comparison to the typical periodic maintenance.

 <b>DATA</b>	 <b>APPLICATIONS</b>								
<ul style="list-style-type: none"><li>• Historical baseline vibration values</li><li>• Start-up / Shut-down or load-change values</li><li>• Pocket-Passing Frequency, (PPF)</li><li>• Overloads, Misalignments</li><li>• Low lubrication, Worn out bearings</li><li>• Axial &amp; Radial vibrations of shaft</li><li>• Mechanical mounting and coupling problems</li></ul>	<p><b>Parameters</b></p> <table border="1"><tr><td><input checked="" type="checkbox"/> Vibration</td><td><input checked="" type="checkbox"/> Frequency</td></tr><tr><td><input checked="" type="checkbox"/> Acceleration</td><td><input checked="" type="checkbox"/> Speed</td></tr><tr><td><input checked="" type="checkbox"/> Temperature</td><td><input checked="" type="checkbox"/> Velocity</td></tr><tr><td><input checked="" type="checkbox"/> Displacement</td><td><input checked="" type="checkbox"/> Alignment</td></tr></table> <p>Bearing   Shafts  Motors</p> <p>Gear Mesh   Gear Profile  Pumps</p>	<input checked="" type="checkbox"/> Vibration	<input checked="" type="checkbox"/> Frequency	<input checked="" type="checkbox"/> Acceleration	<input checked="" type="checkbox"/> Speed	<input checked="" type="checkbox"/> Temperature	<input checked="" type="checkbox"/> Velocity	<input checked="" type="checkbox"/> Displacement	<input checked="" type="checkbox"/> Alignment
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SeethaRam Mechatronics Pvt Ltd provides products and solutions for IOT Ecosystem. Apart from catlog offerings, you may contact us for complete electronic design solutions from the stage of design to manufacturing for IOT's / Embedded Products. Right from PCB layout, board & enclosure designs integrating embedded electronics, digital and analog acquisition, and power systems, we can do it all.

## Few Developed Products & Solutions

- ✓ *Touch Screen Indicators*
- ✓ *Vibes Agriculture*
- ✓ *Controllers & Loggers*
- ✓ *Vibes Mobility*
- ✓ *Signal Splitters, Conditioners*
- ✓ *Vibes Warehouse*
- ✓ *Humidity, Temperature Sensor*
- ✓ *Vibes Maintenance*
- ✓ *Lux Sensor*
- ✓ *Force & Torque Sensors*
- ✓ *Wi-Fi RTU & Protocol Gateways*
- ✓ *Strain Links & Vibration sensors*

## Few Customers

