

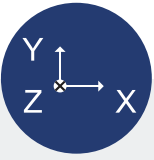


Enable Condition Monitoring & Predictive Maintenance

vSens Pro

Industrial smart sensors





Three axis vibrations
and surface
temperature



IP68-water and
dust proof



Bluetooth 5.0
High battery life up-to
5 years



High sampling rate
up-to 25.6k



Inbuilt predictive
analysis



Product Specification

- Industrial Vibration and Temperature Sensor
- Data is collected intermittently, every burst interval period

Technical Features	<ul style="list-style-type: none"> • 3 Axis Acceleration [Gravity] • Temperature [Degree Celsius] • Battery Level [Percentage] • User Configurable from Mobile App • Firmware Update Supported • User configurable alert levels for vibration, temperature, and battery • Velocity and Displacement RMS • FFT Analysis
Wireless Connectivity Features	<ul style="list-style-type: none"> • BLE 4.2 / BLE 5.0, 2.4 GHz • Range of 30m Line of Sight • Beacon and Connected mode operation
Mechanical Features	<ul style="list-style-type: none"> • Multiple mounting options • IP68 • Compact Dimension
Operating Modes	<ul style="list-style-type: none"> • Beacon Mode: Collects 1024 samples of 3 axis vibration every 60 minutes • Connected Mode: Collects 8192 samples of 3 axis vibration every 30 minutes • Continuous Mode: 3 axis FFT, ARMS and VRMS data up to 6.4k Continuously
Operating Temperature	<ul style="list-style-type: none"> • Industrial Grade: -40°C to 85°C • Heavy Industrial Grade: -40°C to 105°C

Parameters/Features	Lite	Standard	Max
Accelerometer Sampling Frequency	1600 Hz	6400 Hz	25600 Hz
Mechanical Bandwidth	800 Hz	3200 Hz	8600
Accelerometer Ranges	±8g, ±16g, ±32g, ±64g		
Accelerometer Sensitivity	0.2 mg to 1.95 mg		
Temperature Accuracy	±1°C		
Temperature Sensitivity	0.0625°C		
Battery Type	Lithium Thionyl Chloride, 7200 mAh		
Battery Life	5 Years*		

User Configurable

** Two variants of device

* Under Standard Configuration

Why vSens



Ease of deployment

- IP68 casing – Dust and Water proof
- Easily configure machine parameters with Mobile App or Vegam Platform
- Rugged and flexible mounting options to accommodate different types of machine
- Long lasting battery



Use with Vegam Predictive Analysis

- Advanced analytics for Spectral Analysis
- Predictive alerts for machine condition & failures
- Bearing faults, loose parts, faulty gears, belt problems, misalignment
- Can be integrated into Vegam Maintenance Platform – vMaint 4.0



In built Predictive Analysis

- On board Velocity and FFT calculation
- Alert Generation
- Standalone solution
- Serverless Architecture supported



Supports Multiple Gateways & Open Interfaces

- Android Mobile App to record periodic site readings
- Android WiFi Gateway for long term deployment
- Linux WiFi/LTE Gateway for long term deployment
- Beacon Gateway for low cost long term deployment Data on any MQTT server