vSens Pro
Industrial smart sensors
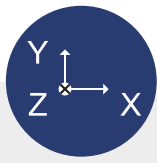
Enable Condition Monitoring & Predictive Maintenance

Vegam
Making Factories Smarter
www.vegam.co

vSensPro
Designed and manufactured in INDIA

IP68
5.0
3 Axis

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	• 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 Feautres	• BLE 4.2 / BLE 5.0, 2.4 GHz • Range of 60m Line of Sight • Beacon and Connected mode operation
Mechanical Feautres	• Multiple mounting options • IP68 • Compact Dimension
Operating Modes	• Beacon Mode: Collects 1024 samples of 3 axis vibration every 60 minutes • Connected Mode: Collects 8192 samples of 3 axis vibration every 30 minutes
Operating Temperature	• 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