Vegam
Making Factories Smarter

vSens Pro

DATASHEET

Compact Water and Dust Proof Sensor (IP68)	Long Battery Life	Wireless Long Range	Remote sensor update

Continuous Velocity Data	Low Spectral Noise	Wide Frequency Range	Low RPM Applications

vSens Pro is a smart Industrial IoT Wireless Vibration Sensor designed for rugged Industrial environment needs. It captures 3 Axis Vibration data and surface temperature of the equipment. The sensor is designed to capture the essential signals necessary to detect defects in wide variety of industrial machinery and equipment. With its wide frequency spectrum, it can monitor both low speed and high speed equipment. The sensor comes with rugged and flexible mounting options to accommodate different types of machines. The device has a long battery life with an off the shelf available battery that can be easily replaced.

Technical Description	Specifications
Number of Axis	3 Axis
Accelerometer Range	Up to ±64g (configurable)
Sampling Frequency	3 Hz to 25.6 kHz
Mechanical Signal Bandwidth	0.1 Hz to 8.2 kHz [x, y], 0.1 Hz to 5.1 kHz [z]
Lines of Resolution	4096
Accelerometer Sensitivity	0.001 mg to 1.95 mg
Spectral Noise Density	$25\ \mu g / \sqrt{Hz}$
Vibration Data Acquisition	Continuous Velocity RMS (1 sample/ minute)
	Periodic Acceleration Raw Data (30 minutes interval)
	Periodic FFT Spectrum Data (30 minutes interval)
Temperature Accuracy	±1°c
Temperature Data Acquisition	Periodic (30 minutes interval)
Wireless Connectivity	BLE 5 Long Range
Wireless Range (Line of Sight)	300 meters
Size (L x W x H)	42mm x 42mm x 70mm
Weight	134 grams
Sealing	IP68 (Water & Dust Proof)
Mounting	Magnet, Adhesive
Battery Type	Type C, Lithium Thionyl Chloride
Battery Life	Up to 2 years
Operating Ambient Temperature	-40°c to 85°c
Compliance	CE, FCC