



# Wireless Vibration Amplitude Sensor - 201B

Part Number: **SS-SEN-201B** 

## Overview

Swift Sensors Wireless Vibration Sensor activates at a user-defined interval and measures g-force along X, Y and Z axes. This sensor is ideal for monitoring rotating equipment and machines. Users can set the frequency of measurement and thresholds for notifications via SMS text email, and phone call.

## Simple, Plug-and-Play Deployment

Place the small battery-powered sensor in the location or on the equipment you need to monitor. The Swift Sensors Bridge automatically identifies the sensor and establishes communication. No wires to connect. No software to install.

## Secure, Scalable, Cloud Architecture

The system is 100% cloud-managed. The bridge securely transmits sensor data to the Swift Sensors Cloud using 256-bit AES encryption. The system is scalable from a single sensor, one site application to multi-site enterprises with thousands of sensors.

## Real-time Monitoring and Analytics with Actionable Data

Swift Sensors Console allows real-time asset monitoring and sophisticated analysis from anywhere – on a computer, tablet, or smartphone. Data analytics provide operational insights and deep visibility. SMS text, email, and phone call notifications can be set based on customizable threshold values and complex rules by individual sensors or sensor groups.

## Applications

- Manufacturing and Production
- Equipment Monitoring
- Predictive Maintenance
- Asset Performance
- Walk-in Coolers/Freezer



<b>Sensor Measurement Specifications:</b>	
<b>Vibration Sensor</b>	
<b>Resolution</b>	4096 count/g
<b>Sensitivity Range</b>	±2 g, ±4 g, ±8 g
<b>Measurement Accuracy</b>	±2.5% (Force: X, Y, Z)
<b>Sensor Operational Specifications:</b>	
<b>Power</b>	Replaceable 3.0V CR2450 coin cell battery
<b>Battery Life</b>	3 months - 1 year, depending on inspection rate
<b>Communication</b>	BLE 4.2: 2.4 GHz, 30 - 45 ft. non line-of-sight
<b>Data Security</b>	AES 256-bit encryption
<b>Enclosure</b>	ABS plastic
<b>Dimensions</b>	2.375" x 1.375" x 0.5625"
<b>Operating Temperature</b>	-40°C to +85°C (-40°F to +185°F)
<b>Operating Environment</b>	-20°C to +60°C (-4°F to +140°F) for battery only
<b>Certifications</b>	FCC

### Swift Sensors Bridge

The Swift Sensors Bridge collects data via BLE or RF from sensors located within the specified communication range (< 200 ft.) and then transmits the sensor data to the Swift Sensors Cloud through either Ethernet, Wi-Fi, or cellular. The bridge auto-detects all sensors within range and will immediately establish secure communication without any user configuration or setup.

### Swift Sensors Console

All sensor data is logged and stored in the Swift Sensors Cloud. The Swift Sensors Console is configured to monitor and track all sensor data in the cloud. Multiple thresholds and alerts can be set separately for each sensor to supply notification via SMS text, email, or phone call. The console can be viewed in a web browser on a computer, tablet, or smartphone. No programming is required to configure the console. An API to the Swift Sensors Platform allows