

# VIBRATION SENSOR SPECIFICATIONS

## Sensor & Gateway

### Features

- 3-axis MEMS vibration sensor
- Calculates RMS and MAX g Vibration, RMS Velocity Vibration, RMS Displacement, and Peak Vibration Frequency
- Built-in FFT Analysis
- LED Indicator Function
- Over-the-air configuration
- Multiple sensor readings per day
- Ability to invoke manual readings
- Time Domain Data for FFT analysis
- Magnet or epoxy mounting
- Noise removal using low-pass and high-pass filters
- 2-mile communication range between sensor and gateway

### Sensor Environmental and Regulatory Qualifications

- Temperature Operation Range -40°C to +70°C (-40°F to 158°F)
- Humidity Range 0-90%
- Frequency Range Bandwidth 1.56Hz-6.4kHz
- Wall-Mounted or Magnet Mounted IP67 Rated Enclosure
- Flammability Rating of UL94 HB
- RoHS Compliant

### Sensor Data

- Triaxial Accelerometer
- Measurements up to +/-16g, 16-bit @100Hz-25.6kHz sample rate
- 2048 samples of each axis to calculate the RMS and Max vibration readings
- Multiple Probe Mounting Option 1/4 NPT, 1/4-28 UNF, and Magnet Mount
- Batteries - 2AA (L91)

### Gateway

Actual Size: 13.75"L (with antennae) x 5.5"W x 2.5"H



### Sensor

Actual Size: 4.5"H x 2"D

### Specifications

- Wireless Frequency 900MHz, 868MHz, 2.4GHz
- 128bit AES encryption
- Sensor: 4.5"H x 2"D
- 5" clearance height for sensor installation
- Sensor Weighs .6 lb
- Gateway: 13.75"L (with antennae) x 5.5"W x 2.5"H
- Gateway Weighs 1.15 lbs

## APPLICATIONS



### Wireless Vibration Measurement

- Motors
- Pumps
- Compressors



### Wireless Industrial Vibration

- Robotic Equipment
- Conveyors



### Future Fail Detection

- Industrial Machines



### Vibration Monitoring

- Conduits
- Pipes
- Air Passages

## Software

### Dashboard

- Easy to Understand Temperature and Vibration Charts
- Peak Overall Velocity Graphs for Vibration Analysis
- Isolate X, Y, or Z Axis for Vibration Analysis
- Acceleration, Velocity, Displacement, FFT Frequency Peaks Available for Vibration Analysis
- Toggle Between Celsius and Fahrenheit
- Easy to Recognize Notification Features Designed to Reduce Alert Fatigue
- High-Speed Vibration Sampling Rates of 50Hz, 100Hz, 200Hz, 400Hz, 800Hz, 1600Hz, 3200Hz, 6400Hz, 12800Hz, and 25600Hz

### Customization

- Easily Map Your Equipment With Your Terminology
- Time Domain Waveforms Available
- Spectral Waveforms Available (FFT)
- Create Notification Groups and Escalation Groups (SMS or Email)